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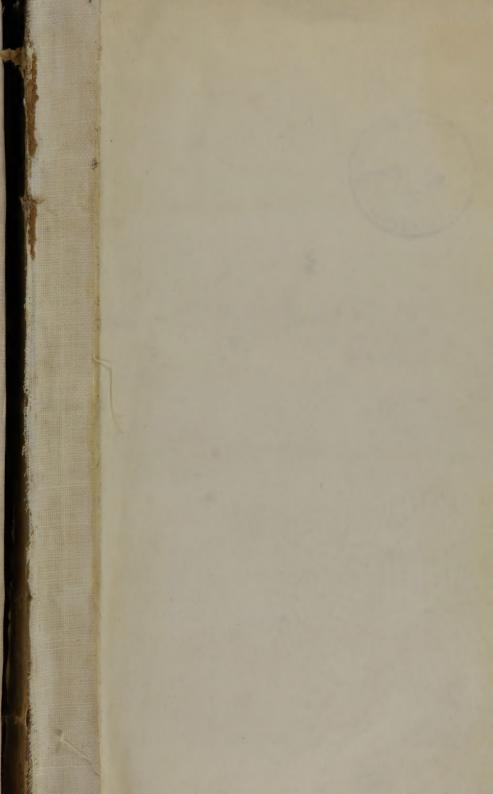
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## ADVERTISEMENT

TO

# THE FOURTH AMERICAN EDITION.

In order to render the Fourth American Edition of Hooper's Medical Dictionary more acceptable to the Medical public of the United States, considerable additions have been made, selected from American authors, particularly on Materia Medica, Mineralogy, &c. &c. For these additions an acknowledgment is due to Dr. James Thacher, for the extracts we have made from his Medical Biography, to Dr. John W. Webster, of Boston, for the same liberty taken with his Manuel of Chemistry, and to Dr. Jacob Bigelow, for the use of his Treatise on the Materia Medica. Copious extracts have also been made from Professor Cleaveland's Mineralogy, and recourse has been had to the New-York Medical Repository, Burns's Mineralogical Journal, Eaton's Geology, and other works, for the purpose of introducing new and interesting articles. A number of obsolete terms have been omitted, but lest it might be thought by some to injure the work as a standard of modern as well as of ancient Medical terms, the words omitted have been inserted in the form of an Appendix.

NEW-YORK, October, 1829.

TO DESCRIPTION OF THE PARTY OF The same of the sa produce to make an in horizon must

# PREFACE.

In the present edition of the Medical Dictionary, the principal additions and improvements are in the introduction of the terms of Botany and those of Mineralogy, and the most modern discoveries in Chemistry and Physiology. The work, therefore, will now be found to contain an account of every article connected with the study of medicine.

In conducting this laborious undertaking, particular attention has been given to,

- 1. The accentuation, in order that the proper pronunciation of the words may be obtained.
- 2. The derivation of the terms, and the declension of the words in common use.
  - 3. The definitions, which are from the most approved sources.
- 4. The introduction of all the modern discoveries in the several branches of medical science

In the selection and arrangement of the most compendious, the most clear, and the most perfect account of the several articles of Anatomy, Biography, Botany, Chemistry, the Materia Medica, Midwifery, Mineralogy, Pathology, Pharmacy, and Physiology; the Compiler has again to acknowledge his obligations to Abernethy, Accum, Aikin, Albinus, Bell, Brande, Bergius, Blanchard, Burns,

viii PREFACE.

Burserius, Callisen, Casselli, Cooper, Cruickshank, Cullen, Davy, Denman, Duncan, the Editors of the London and Edinburgh Dispensaries, and of Rees' Cyclopædia, and Motherby's Medical Dictionary, Fourcroy, Good, Haller, Henry, Hoffman, Innis, Latta, Larcy, Lavoisier, Lewis, Linnæus, Majendie, Meyer, Murray, Nicholson, Orfila, Pott, Richerand, Richter, Saunders, Sauvage, Scarpa, Smith, Sæmmering, Swediaur, Symonds, Thomas, Thompson, Turton, Ure (from whose condensed and comprehensive work on chemistry large extracts have been made), Vaughan, Vossius, Willan, Woodville, &c. &c.

It was his original intention to give to each writer the merit of the particular description selected from his work: but having occasion to consult, frequently to abridge, and sometimes to alter, various passages; and finding it difficult, and in many instances impossible, to discover the original writer of several articles; and convinced at the same time that it would be attended with no particular advantage, he has preferred making a general acknowledgment to particularizing the labours of each individual. If he has been so fortunate as to have compressed within the narrow limits of the present publication much general and useful information, his object will be fully answered.

# A NEW

# MEDICAL DICTIONARY.

### ABB

ABD

1. In composition this letter, the a in Greek and a in Latin, signifies without: thus aphonia, without voice, acaulis, without stem, aphyllus, without voice, acaulis, without stem, aphyllus, without a leaf, &c.

Abbreviate; shortened. A term

2. A. A.A. (From ava, which signifies of each.) Abbreviations of ana, which word is used in prescriptions after the mention of two or more ingredients, when it implies, that the quantity mentioned of each ingredi-

implies, that the quantity mentioned of each ingredient should be taken; thus, B. Potasso nitratis—Sacchari albi ää 3]. Take nitrate of potassa and white sugar, of each one drachm.

AA'RON. A physician of Alexandria, author of thirty books in the Syriac tongue, containing the whole practice of physic, chiefly collected from the Greek writings, and supposed to have been written before A. D. 680. He first mentioned, and described, the smallnor and measles, which were prohably brought thither D. 620. He first mentioned, and described, the small-pox and measles, which were probably brought thither by the Arabians. He directed the vein under the tongue to be opened in jaundice, and noticed the white colour of the fieces in that disease. His works are lost, except some fragments, preserved by Rhazes.

AA'VORA. The fruit of a species of palm-tree which grows in the West Indies and Africa. It is of the size of a hea's egg and included with several more.

the size of a hen's egg, and included with several more in a large shell. In the middle of the fruit there is a hard nut, about the size of a peach stone, which con tains a white almond, very astringent, and useful

against a diarrhœa.

Ama'rors. Abigeatus. Among the ancient physicians, this term was used for a miscarriage, procured by art, or force of medicines, in contradistinction to abortus, which meant a natural miscarriage.

A'bacus. (From a Hebrew word, signifying dust.) A table for preparations, so called from the usage of mathematicians of drawing their figures upon tables

sprinkled with dust.

ABAI'SIR. Abasis. Ivory black; and also calcare-

ous powder.

ABALIENA'TIO. Abalienation; or a decay of

the body, or mind.

ABALIENA'TUS. 1. Corrupted.

9. A part so destroyed as to require immediate ex-

irpation.

3. The total destruction of the senses, whether external or internal, by disease.

Abapti's τ. (From a, priv. and βαπτω, to plunge.)

Abaptistom. 1. The shoulders of the old trepan.

2. This term is employed by Galen, Fabricius ab Aquapendente, Scultetus, and others, to denote the conical saw with a circular edge, (otherwise called modiolus, or terebra.) which was formerly used by surgeons to perforate the cranium.

Abapti's ton. See Abaptista.

Abapti's ton. See Abaptista.

Abapti's ton of metals, signifying luna plena, magnes, or magnesia.

ABARTICULATION. (From ab, and articulus, a joint.) A species of articulation which has evident motion. See Diarthrosis.

motion. See Diarthrosis.

Absa'sts. See Abaisir.

ABBREVIATION. The principal uses of medicinal abbreviations are in prescriptions, in which they are certain marks, or half words, used by physicians for despatch and conveniency when they prescribe; thus:—B readily supplies the place of recipe—b. c. that of hora somni—n. m. that of nux moschata—clect. that of electarium, &c.; and in general all the names of compound medicines, with the several ingredients, are frequently wrote only up to their first or second syllable, or sometimes to their third or fourth, to make them clear and expressive. Thus Oroc. Anglic. stands

ABBREVIATUS. Abbreviate; shortened. A term often used in botany.

ABDO MEN. (Abdomen, inis. n.; from abdo, to hide; bocause it hides the viscera. It is also derived from abdere, to hide, and omentum, the cau; by others omen is said to be only a termination, as from tego, legumen, so from abde, abdomen. The belly. The largest cavity in the body, bounded superiorly by the diaphragm, by which it is separated from the chest; inferiorly by the bones of the pubes and ischium; on each side by various muscles, the short ribs and ossa illi: anteriorly by the abdominal muscles, and posteriorly by the abdominal muscles, and posteriorly by the abdominal muscles, and posteriors. each size by various inductor, the bird in section in it is an extendible in the interior of the loins, the os sacrum and os coccygis. Internally it is invested by a smooth membrane, called peritoneum, and externally by muscles and common integuments.

In the cavity of the belly are contained.

Anteriorly and laterally,

1. The epiploon, 2. The stomach, 3. The large and small intestines. 4. The mesentery. 5. The lacteal vessels. 6. The pancreas. 7. The spleen. 8. The liver and gall-bladder.

Posteriorly, without the peritoneum,
1. The kidneys. 2. The supra-renal glands. 3. The

ureters. 4. The receptacumum chyli. 5. The descending aorta. 6. The ascending vena cava.

Inferiorly in the pelvis, and without the peritoneum.
In men, 1. The urinary bladder. 2. The spermatic vessels. 3. The rectum.

In women, besides the urinary bladder and intestinum rectum, there are,

1. The uterus. 2. The four ligaments of the uterus.

3. The two ovana. 4. The two Faliopian tubes. The vagina.

The fore part of this cavity, as has been mentioned, is covered with muscles and common integuments, in the middle of which is the navel. It is this part of the body which is properly called abdomen; it is distinguished, by anatomists, into regions. See Body.

The posterior part of the abdomen is called the loins, and the sides the flanks.

ABDOMINALIS. (From abdomen, the belly.) Ab-ABDUMINALIS. (From abdomen, the bell dominal; pertaining to the belly.

Abdominal hernia. See Hernia.

Abdominal muscles. See Muscles.

Abdominal regions. See Body.

Abdominal ring. See Annulus Abdominis.

ABDU CENS. See Abducent.

ABDUCENS LABIORUM. See Levator anguli oris.
ABDUCENT. (Abducens; from ab, from, and ducers, to draw.) The name of some muscles which draw parts back in the opposite direction to others. See Abductor.

Abducent muscles. See Abductor.
Abducent nerves. See Nervi abducentes.
ABDUCTOR. (From abduce, to draw away.) Abducens. A muscle, the office of which is to pull back or draw the member to which is affixed from some other. The antagonist is called adductor.

ABDUCTOR AURICULARIS. See Posterior auris.

ABDUCTOR AURIS. See Posterior auris.

ABDUCTOR BREVIS ALTER. See Abductor policis

An internal interos manus.

ABDUCTOR INDICIS MANUS. An internal interesseous muscle of the fore-finger, situated on the hand.

Abductor of Douglas: Semi-interesseous indicis of Winslow; Abductor indicis of Cowper. It arises from the superior part of the metacarpal bone, and the os tra

pezium, on its inside, by a fleshy beginning, runs towards the metacarpal bone of the fore-finger, adheres to it, and is connected by a broad tendon to the superior part of the first phalanx of the fore-finger. Sometimes it arises by a double tendon. Its use is to draw the fore-finger from the rest, towards the thumb, and to

fore-finger from the rest, towards the thumb, and to bend it somewhat towards the palm.

ABDUCTOR INDICIS PEDIS. An internal interosseous muscle of the fore-toe, which arises tendinous and fleshy, by two origins, from the root of the inside of the metatarsal bone of the fore-toe, from the outside of the root of the metatarsal bone of the great toe, and from the os cuneiforme internum, and is inserted tendinous into the inside of the root of the first joint of the fore-toe. Its use is to mult the force invariety from the toe. Its use is to pull the fore-toe inwards, from the rest of the small toes.

ABDUCTOR LONGUS POLLICIS MANUS. See Extensor

ossis metacarpi pollicis manûs.

ABDUCTOR MEDII DIGITI PEDIS. muscle of the foot, which arises tendinous and fleshy, from the inside of the root of the metatarsal bone of the middle toe internally, and is inserted tendinous into the inside of the root of the first joint of the middle toe. Its use is to pull the middle toe inwards.

Is use is to pull the middle toe inwards.

ABBUCTOR MINIM INGETI MANUS. A MUSCLE of the little finger, situated on the hand. Carpo-phalangien du petit doigt of Dunias; Extensor tertii internodii minimi digiti of Douglas; Hypothenar minor of Winslow. It arises fleshy from the pisitorn bene, and from that part of the ligamentum carpi annulare next it, and is inserted, tendinous, into the inner side of the upper end of the first bone of the little finger. Its use is to draw the little finger from the rest.

ABBUCTOR MINIM PROPER PRIME. A MUSCLE of the

ABDUCTOR MINIMI DIGITI FEDIS. A muscle of the little toe. Calcaneo-phalangien du petit dogt of Dumas; Adductor of Douglas; Parathenar major of Winslow, by whom this muscle is divided into two, winslow, by whom this muscle is advised into two, Parathemar major and metatarssus; Adductor minimi digiti of Cowper. It arises tendinous and fleshy, from the semicircular edge of a cavity on the inferior part of the protuberance of the os calcis, and from the rest of the metatarsal bone of the little toe, and is inserted into the next of the fact is the first the parathemaly. into the root of the first joint of the little toe externally. Its use is to bend the little toe, and its metatarsal bone, downwards, and to draw the little toe from the rest.

ABBUCTOR POLLICIS MANUS. A muscle of the thumb, studied on the hand. Scaphosus-phalangien du pouc of Dumas; Adductor policies manus, and Adductor brevis alter of Albinus; Adductor themar Rioláni of Douglas (the adductor brevis alter of Albinus; alter of Albinus; at the property of the state of the state of Albinus is the inner portion of this muscle); Adductor pollicis of Cowper. It arises by a broad tendinous and fleshy beginning, from the ligamentum carpi annulare, and from the os trapezium, and is inserted tendinous into the outer side of the root of the first bone of the thumb. Its

use is, to draw the thumb from the fingers.

ABDUCTOR POLLICIS PEDIS. A muscle of the great toe situated on the foot. Calcaneo-phalangien du pouce of Dumas; Abductor of Douglas; Thear of Winslow; Abductor pallicis of Cowper. It arises fleshy, from the inside of the root of the protuberance of the os calcis, where it forms the heel, and tendinous from the same bone, where it joins the os naviculare; and is inserted tendinous into the internal sesamoid bone and root of the first joint of the great toe. Its use is to pull the great toe from the rest.

ABDUCTOR TERMI DIGITI PEDIS. An interosseous muscle of the foot, that arises tendinous and fleshy from the inside and the inferior part of the root of the metatarsal bone of the third toe; and is inserted tendinous into the inside of the root of the first joint of the third toe. Its use is to pull the third toe inwards. ABEBE os. (From a, neg. and  $\beta s \beta a to g$ , firm.) Abbus. Weak, infirm, unsteady. A term made use of by Hippocrates, de Signis. ABDUCTOR TERTII DIGITI PEDIS. An interosseous

by Hippocrates, de Signis.

ABBBE'US. See Abebeos.

ABELMO'SCHUS. (An Arabian word.) See Hibiscus Abelmoschus.

Abelmoschus.
Abelmoschus.
Abelmoschus.
Abelmoschus.
ABERRA'TIO. (From ab and erro, to wander from.) Formerly applied to some deviations from what was natural, as a dislocation, and monstrosities.

ABE SSI. (An Arabian term which means filth.)

The alvine excrements.

A'BESUM. Quicklime.

ABEVACUA TIO. (From ab, dim, and evacuo, to pour out.) A partial or incomplete evacuation of the poccant humours, either naturally or by art.

ABECUM. The thyroid cartilage.

A'BLES. (Abies, etis. fem.; from abeo, to proceed, because it rises to a great height; or from amos, a wild pear, the fruit of which its cones something resemble.) The fir. See Pinus.

ABIGE ANADENSIS. See Pinus Balsamea.

ABIGEA'TUS. See Abactus.

ABIOTOS. (From a, neg. and βιοω, to live.)

Deadly. A name given to hemlock, from its deadly qualities. See Conum maculatum.

Deadly. A name given to hemlock, from its deadly qualities. See Concum maculatum.

ABLACTATIO. (From ab, from, and lac, milk.)

Ablactation, or the weaning of a child from the breast.

ABLATION. (Ablatio; from aufero, to take away. 1. The taking away from the body whatever is hurtful. A term that is seldom used but in its general sense, to clothing, diet, exercise, &c. In some old writings; it expresses the intervals between two fits of a fever, or the time of remission.

2. Formerly chemists employed this term to signify the removal of any thing that is either finished or else no longer necessary in a process.

the removal of any timing that is either himshed to come longer necessary in a process.

ABLUE'NT. (Abluens; from abluo, to wash away.) Abstergent. Medicines which were formerly supposed to purify or cleanse the blood.

ABLUTION. (Ablueto; from abluo, to wash off.)

1. A washing or cleansing either of the body or the

2. In chemistry it signifies the purifying of a body, by repeated affusions of a proper liquor.

ABOLI'TIO. (From aboleo, to destroy.) The separation or destruction of diseased parts.

ABORSUS. A miscarriage.
ABORTIENS. Miscarrying.
In botany, it is sometimes used synonymously with
sterilis, sterile or barren.

ABORTION. (Abortio; from aborior, to be sterile.) Aborsus; Amblosis; Diaphthora; Ectrosis; Exambloma; Examblosis; Apopallesis; Apopalsis; Apopathora. Miscarriage, or the expulsion of the fætus from thora. Miscarriage, or the expulsion of the feetus from the uterus, before the seventh month, after which it is called premature labour. It most commonly occurs between the eighth and eleventh weeks of pregnancy, but may happen at a later period. In early gestation, the ovum-sometimes comes off entire; sometimes the feetus is first expelled, and the placeata afterwards. It is preceded by floodings, pains in the hack, loins, and lower part of the abdomen, evacuation of the water, shiverpart of the abdomen, evacuation of the water, shiverings, palpitation of the heart, nausea, auxiety, symoope, subsiding of the breasts and helly, pain in the inside of the thighs, opening and moisture of the os tince. The principal causes of miscarriage are blows or falls; great exertion or fatigue; sudden frights and other violent emotions of the mind; a diet too sparing or too nutritious; the abuse of spirituous liquors; other diseases, particularly fevers, and hemorrhages; likewise excessive bleeding, profuse diarrhea or cholic, particularly from accumulated faces; immoderate venery, &c. The spontaneous vomiting so common in pregnancy, rarely occasions this accident: but when induced and kept up by drastic medicines, it may be very likely to have that effect. Abortion often happens duced and kept up by drastic medicines, it may be very likely to have that effect. Abortion often happens without any obvious cause, from some defect in the uterus, or in the fectus itself, which we cannot satisfactorily explain. Hence it will take place repeatedly in the same female at a particular period of pregnancy; perhaps in some measure from the influence of habit.

The treatment of abortion must vary considerably according to the constitution of the natient, and the

The treatment of abortion must vary considerably according to the constitution of the patient, and the causes giving rise to it. If the incipient symptoms should appear in a female of a plethoric habit, it may be proper to take a moderate quantity of blood from the arm, then clear the bowels by some mild cathartic, the arm, then clear the bowers by some mind cannarine, as the sulphas magnesis in the infusum roses, afterwards exhibiting small doses of nitrate of potash, directing the patient to remain quiet in a recumbent position, kept as cool as possible, with a low diet, and the antiphlogistic regimen in other respects. Should there be much flocking aloths waterd with sold waters. the antipmogistic regimen in other respects. Should there be much flooding, cloths wetted with cold water ought to be applied to the region of the uterus, or even introduced into the vagina, to obstruct the escape of the blood mechanically. Where violent forcing pains attend, opinm should be given by the mouth, or in the form of gluster after wasnising account. form of glyster, after premising proper evacuations

Should these means not avail to cheek the discharge of | length the matter makes its way externally. When the forcing pains, and particularly if the water be eva-cuated, there can be no expectation of preventing the miscarriage; and where there is reason for believing miscarriage; and where there is reason for believing the factors dead, from the breasts having previously subsided, the morning sickness gone off, the motion stopped, &c. it will be proper rather to encourage it by manual assistance

If on the other hand females of a delicate and irritable habit, rather deficient in blood, be subject to abortion, or where this accident is threatened by profuse evacuations and other debilitating causes, it may be more probably prevented by a diet nutritious, yet easy of digestion, with tonic medicines, and the use of the cold bath, attending at the same time to the state of the bowels, giving opium if pain attend, and carefully

avoiding the several exciting causes.

[When a female has suffered several abortions, it lwheat a lenate has suntered several aportions, it becomes almost impossible to prevent a repetition at the same period of gestation in a subsequent pregnancy. Nothing, however, will be so successful in preventing a recurrence of a similar misfortune, as in allowing the uterine vessels to recover their tone: for which purpose a sufficient time must intervene before the next conception, otherwise the remedies above recommended will have little or no effect. A.]
ABORTIVE. (Abortivus; from abortor, to be

sterile.) That which is capable of occasioning an abor-

sterile.) That which is capable of occasioning an abortion, or miscarriage, in pregnant women. It is now generally believed, that the medicines which produce a miscarriage, effect it by their violent operation on the system, and not by any specific action on the womb.

[Front the violent operation of the secale cornutum, or spurred rye, upon the gravid uterus, it has been thought that it would act at any period of gestation as an abortive; but the experiments and trials made with it, have proved it to be inert, having no specific action when the therms expert in time of labour. upon the uterus, except in time of labour. A.]
ABORTUS. A miscarriage.

ABRA'SA. (From abrado, to shave off.) Ulcers at tended with abrasion.

ABRASION. (Abrasio; from abrado, to tear off.)
This word is generally employed to signify the destruction of the natural mucus of any part, as the sto-mach, intestines, urinary bladder, &c. It is also applied to any part slightly torn away by attrition, as the

BRATHAN. Corrupted from abrotanum, southern-

wood. See Artemisia abrotanum

A'BRETTE. See Hibiscus Abelmoschus. ABRO'MA. (From  $a_1$  neg. and  $\beta \rho \omega \mu a_1$  food; i.e. of fit to be eaten.) A tree of New South Wales, not fit to be eaten.)

not fit to be teaten.) A tree of New South Wales, which yields a gum.

ABROTTANUM. (Αδροτανον; from a, neg. and βροτος, mortal; because it never decays: or from aβρος, soft, and τονος, extension; from the delicacy of its texture.) Common southern wood. See Artemisia.

ABROTONI'TES. (From abrotanum.) A wine mentioned by Dioscorides, impregnated with abrotanum, or southern wood, in the proportion of about one hundred ounces of the dried leaves, to about seven gallone of must.

ABRUPTE'. Abruptly, Applied to pinnate leaves which terminate without an odd leaf or lobe:-folia

abruptè pinnata.

ABSCEDE'NTIA. (From abscedo, to separate.) Decayed parts of the body, which, in a morbid state, are

separated from the sound.

ABSCESS. (Abscessus; from abscedo, to depart: because parts, which were before contiguous, become separated, or depart from each other). Abscessic; Imposthuma. A collection of pus in the cellular mem-Imposthuma. A collection of pus in the ceimar membrane, or in the viscera, or in bones, preceded by inflammation. Abscesses are variously denominated according to their seat: as empyema, when in the cavity of the pleura; vomica, in the lungs; panaris, in any of the fingers; hypopyon, in the anterior chamber of the eye; arthropuosis, in a joint; lumbar abscess, &c.

The formation of an abscess is the result of inflammation.

mation terminating in suppuration. This is known by a throbbing pain, which lessens by degrees, as well as the heat, tension, and redness of the inflamed part; and if the pus be near the surface, a cream-like whiteness is soon perceived, with a prominence about the middle, or at the inferior part, then a fluctuation may be felt, which becomes gradually more distinct, till at

suppuration occurs to a considerable extent, or in a part of importance to life, there are usually rigours, or sudden attacks of chiliness, followed by flushes of heat; and unless the matter be soon discharged, and the abscess healed, hertic fever generally comes on.
When abscesses form in the cellular membrane in persons of a tolerably good constitution, they are usually circumscribed, in consequence of coagulable lymph having been previously effused, and having obliterated the communication with the adjoining cells; but in those of a weakly, and especially a scrophulous consti tution, from this not occurring, the pus is very apt to diffuse itself, like the water in anasarca. Another circomstance, which may prevent its readily reaching the surface, is its collecting under an aponeurosis, or other part of dense structure, when the process of ulceration will rather extend in another direction; thus pus accumulating in the loins, may descend to the lower part of the thigh.

When suppuration occurs, if the inflammation have not yet subsided, it may be necessary to employ means calculated to moderate this, in order to limit the extent of the abscess: but evacuations must not be carried too far, or there will not be power in the system to heal it afterwards. If the disease be near the surface, fomentations or warm emollient poultices should be employed, to take off the tension of the skin, and proemployed, to take of the tension of the skin, and promote the process of ulceration in that direction. As soon as fluctuation is obvious, it will be generally proper to make an opening, lest contiguous parts of importance should be injured; and often at an earlier period, where the matter is prevented from reaching the surface by a fascia, &c., but it is sometimes advisable to wait awhile, especially in large spontaneous abscesses, where the constitution is much debilitated, till by the use of a nutritious diet, with bark and other tonic means, this can be somewhat improved. There come means, the car be converted improven. There are different modes of opening abscesses. I. By incision or puncture; this is generally the best, as being least painful, and most expeditious, and the extent of the aperture can be better regulated. 2. By caustic; this may be sometimes preferable when suppuration goes on very slowly in glandular parts, (especially in scroon very slowly in glandular parts, (especially in scraphulous and venereal cases,) lessening the subjacent tumour, giving free vent to the matter, and exciting more healthy action in the sore; but it sometimes causes much deformity, it can hardly reach deep seated abscesses, and the delay may be often dangerous. 3. By seton; this is sometimes advantageous in superficial abscesses, (where suppuration is likely to continue,) about the neck and face, leaving generally but a small scar; likewise when near joints, or other important parts liable to be injured by the scalpel or caustic. See Lawhar Abscess, and Ulcer.

ABSCISSION. (Abscissio; from ab, and scindo, to cut.) 1. The cutting away some morbid, or other part, by an edged instrument. The abscistion of the prepuce makes what we call circumcision.

prepuce makes what we call circumcision. 2. Abscission is sometimes used by medical writers to

denote the sudden termination of a disease in death,

before it arrives at its decline

3. Celsus frequently uses the term abscissa vox to express a loss of voice

ABSINTHITES. Absinthiac, or absinthiated. Something tinged or impregnated with the virtues of absin-

thium or wormwood.

ABSI'NTHIUM. (Absinthium, thii, n. αψινθιον; from a, neg. and ψινθος, pleasant: so called from the disagreeableness of the taste.) Wormwood. See Ar-

ARSINTHIUM COMMUNE. Common Wormwood. See Artemisia Absinthium.

Sea Wormwood. See ABSINTHIUM MARITIMUM. Artemisia Maritima.

ABSINTHIUM PONTICUM. Roman Wormwood. See Artemisia Pontica.

ABSINTHIUM VULGARE. Common Wormwood. See Artemisia Absinthium.

ABSORBENT. (absorbers; from absorbee, to suck up.) 1. The small, delicate, transparent vessels, which up.) 1. The small, delicate, transparent vessels, which take up substances from the surface of the body, or from any cavity, and carry it to the blood, are termed absorbents or absorbing vessels. They are denominated, according to the liquids which they convey

phatic.
2. Those medicines are so termed, which have no acrimony in themselves, and destroy acidities in the stomach and bowels; such are magnesia, prepared chalk, oyster-shells, crabs' claws, &c.
3. Substances are also so called by chemists, which have the faculty of withdrawing moisture from the

atmosphere.

atmosphere.

Absorbing vessels. See Absorbent.

ABSORPTION. (Absorptio; from absorbeo, to suck up.) 1. A function in an animated body, arranged by physiologists under the head of natural actions. It signifies the taking up of substances applied to the mouths of absorbing vessels, thus the purplicular to the mouths of absorbing vessels; thus the nutritious part of the food is absorbed from the intestinal canal part of the rood is absorbed from the intestinal canal by the lacteals; this mercury is taken into the system by the lymphatics of the skin, &c. The principle by which this function takes place, is a power inherent in the mouths of the absorbents, a vis inside, dependent on the degree of irritability of their internal membrane by which they contract and propel their contents for-

2. By this term chemists understand the conversion

2. By this term chemists understand the conversion of a gaseous fluid into a liquid or solid, on being united with some other substance. It differs from condensation in this being the effect of mechanical pressure. [Absorption by plants.—In 1804, Dr. Foote sent to Dr. Mitchill of New-York, a peach, with the following account of it:—"I present you with a peach by the bearer. You will readily perceive that I could not be induced to this from any thing very promising in its aspect, the richness of its flavour, or the singularity of its species. On tasting, you will find it highly charged with muriate of soda: and when I inform you that it has undergone no artificial management, but possessed this property when plucked from the tree, you may find some difficulty in explaining the fact.

find some difficulty in explaining the fact.

"This peach was presented to me by Mr. Solomon Brewer, of Westchester Co., New-York, my former residence. Mr. B. is a respectable man, and the present clerk of the town in which he lives. The history sent cierk of the town in which he lives. The history he gives me of this natural salt-peach is, that it grew in his neighbourhood, on a tree, around the body and roots of which had been accidentally poured a quantity of pork or beef-brine; that its fruit ripens in the month of September; that the effect of the brine had been, to produce a sickness and decay in the tree; and they at this time (Sent 1804) it repears the desired. been, to produce a sickness and decay in the tree; and that at this time (Sept. 1804) it presents the singular fact of a tree hanging tolerably full of sult peaches. He was unable to inform me of the precise time of the occurrence, but that it was the fore-part of summer, and after the fruit had obtained its shape and some size. This fact, as respects the vegetable kingdom, is in my mind an isolated one.

"I have felt the more interest in noticing this fact, are respectively and confirm the strengthen and confirm the strengthen

"I have felt the more interest in noucing this fact, as it contributes much to strengthen and confirm the opinion you long since advanced, that certain vegetables, as wheat, partake much of the properties of the manure which is used as their aliment, and thence arge with much propriety the importance of the subject to agriculturists."—See Med. Repos. of New-York.

ject to agriculturists."—See Med. Repos. of New York, vol. viii. p. 209. A.]
ABSTEMIOUS. (Abstemius; from abs, from, and temetum, wine.) Refraining absolutely from all use of wine; but the term is applied to a temperate mode of living, with respect to food generally.
ABSTEWIO. Cellus Aurelianus uses this word to

express a suppression, or retention: thus, abstention stercorum, a retention of the excrements, which he mentions as a symptom very frequent in a satyriasis. In a sense somewhat different, he uses the word abstenta, applying it to the pleura, where he seems to mean that the humour of the inflamed pleura is prevented, by the adjacent bones, from extending

ABSTERGENT. (Abstergens; from absterge, to cleanse away.) Any application that cleanses or clears away foulness. The term is seldom employed by

ABSTRACTION. (From abstraho, to draw away.)
A term employed by chemists in the process of humid
distillation, to signify that the fluid body is again drawn

lacteals and lymphatics. See Lacteal and Lym- | blood from a plethoric person. A term used by some

A. (Acacia, c. f. акакіа; from акаўы, to The name of a genus of plants in the Lin-em. Class, Polygamia; Order, Monæcia. ACA'CIA. sharpen.) naan system. The Egyptian thorn.

ACACIA CATECHU. This plant affords a drug, form-Access category. This plant affords a drug, formerly supposed to be an earthy substance brought from Japan, and therefore called terra Japanica, or Japan earth; alterwards it appeared to be an extract prepared in India, it was supposed till lately, from the juice of the Memora category, by beiling the wood and evaporating the decoction by the heat of the sun. But the shrub is now ascertained to be an acacia, and is termed degric category. It appears in great abundance in the Acacia catechu. It grows in great abundance in the Atocara catechi. It grows in great abundance in the kingdom of Bahar, and catechic comes to us principally from Bengal and Bombay. It has received the following names: Acachou; Fargel; Catchu; Caschu; Catchu; Catch who reside there cutch. In its purest state, it is a dry pulverable substance, outwardly of a reddish colour, internally of a shining dark brown, tinged with a red-dish hue; in the mouth it discovers considerable adstringency, succeeded by a sweetish mucilaginous taste. It may be advantageously employed for most purposes where an adstringent is indicated; and is particularly useful in alvine fluxes, where astringents are required. Besides this, it is employed also in uterine profluvia. in laxity and debility of the viscera in general; and it is an excellent topical adstringent, when suffered to dissolve leisurely in the mouth, for laxities and ulcerations of the gums, apththous ulcers in the mouth, and simi-lar affections. This extract is the basis of several formulæ in our pharmacopæias, particularly of a tincbut one of the best forms under which it can be exhibited, is that of simple infusion in warm water with a proportion of cumamon, for by this means it is at once freed of its impurities and improved by the addition of the aromatic.

Fourcroy says that catechu is prepared from the seeds of a kind of palm, called areca. Sir Humphrey Davy has analyzed catechu, and from his examination it appears, that from Bombay is of uniform texture, redbrown colour, and specific gravity 1.39: that from Bengal is more friable and less consistent, of a chocolate colour externally, but internally chocolate streaked with red-brown, and specific gravity 1.28. The catechu from either place differs little in its properties. Its taste is astringent, leaving behind a sensation of sweetness. It is astream as a stringent, leaving behind a sensation of sweetness. It is almost wholly soluble in water. Two hundred grains of picked catechu from Bombay afforded 109 grains of the picked catechus from Bombay afforded 109 grains of or picker catechu from Bombay anorted the grains of tannin, 66 extractive matter, 13 mucilage, 10 residuum, chiefly sand and calcareous earth. The same quantity from Bengal; tannin 97 grains, extractive matter 73, mucilage 16, residual matter, being sand, with a small quantity of calcareous and aluminous earths, 14. Of the latter, the darkest parts appeared to afford most tannin, the lightest most extractive matter. The Hin-

tamin, the lightest most extractive matter. The find-doos prefer the lightest coloured, which has probably most sweetness, to chew with the betel-nut. Of all the astringent substances we know, catechu appears to contain the largest proportion of tannin; and Mr. Purkis found, that one pound was equivalent to seven or eight of oak bark for the purpose of tanning

[The tinctura Japonica is a powerful and useful astringent in looseness of the bowels. Many persons take this preparation when they are not aware of it, and when there is no occasion. It is used to colour fictitious and imitation brandies made in the United States, and from the quantity used, these liquors al-

States, and from the quantry used, these induors al-ways produce costiveness. A.]
ACACIA GERMANICA. German acacia.
1. The name of the German black-thorn or sloe-tree, the Prunus spinusa of Linnaus.
2. The name of the inspissated juice of the fruit, as made in Germany; which, as well as the tree, is there called also Acacia nostras. It is now fallen into disuse.

ACACIA INDICA. See Tamarindus Indica.

ACACIA NOSTRAS. See Acacia Germanica.
ACACIA VERA. 1. The systematic name of the tree

off from the solid, which it had dissolved.

A'ssus. The Egyptian lotus.

Abvacua'rio. (From abvacuo, to empty.) A morbid discharge; a large evacuation of any fluid, as of

The Egyptian Thorn. This tree yields the true Acada Gum, or Gum-Arabic, called also Gumni acanthinum; Gummi thebaicum; Gummi scorptonis; Gum-lamac;

Gramm theoaccum; Gramm scorptonus; Gram-tamae; Gramm senga, or senaca, or sengadense.
Cairo and Alexandria were the principal marts for gum-arabic, till the Dutch introduced the gum from Senegal into Europe, about the beginning of the seventeenth century, and this source now supplies the greater part of the vast consumption of this article. part to the vas consumption of this article. The free which yields the Senegal gum, grows abundantly on the sands, along the whole of the Barbary coast, and par-ticularly about the river Senegal. There are several species, some of which yield a red astringent juice, but others afford only a pure, nearly colourless, insipid gum, which is the great article of commerce. These trees are from eighteen to twenty feet high, with thorny branches. The gum makes its appearance about the middle of November, when the soil has been thoroughly saturated with periodical rains. The gummy juice is seen to coze through the trunk and branches, and, in seen to coze through the trunk and branches, and, in about a fortnight, it hardens into roundish drops, of a yellowish white, which are beautifully brilliant where they are broken off, and entirely so when held in the mouth for a short time, to dissolve the outer surface. No clefts are made, nor any artificial means used by the Moors, to solicit the flow of the gum. The lumps of gum-senegal are usually about the size of partridge eggs, and the harvest continues about six weeks. This gum is a very wholesome and nutritious food; thousands of the Moors support themselves entirely upon it sands of the lators support themselves charrety upon it during the time of harvest. About six ounces is sufficient to support a man for a day; and it is, besides, mixed with milk, animal broths, and other victuals. The gum-arabic, or that which comes directly from Egypt and the Levant, only differs from the gum-senegal in being of a lighter colour, and in smaller lumps; and it is also somewhat more brittle. In other respects,

Gum-arabic is neither soluble in spirit nor in oil: but, in twice its quantity of water, it dissolves into a mucilaginous fluid, of the consistence of a thick syrup, and in this state answers many useful pharmaceutical purposes, by rendering oily, resinous, and pinguious substances miscible with water. The glutinous quality of gum-arabic renders it preferable to other gums and mucilages as a demulcent in coughs, hoarsenesses, and other catarrhal affections. It is also very generally employed in ardor urinæ, diarrhæas, and calculous complaints.

2. The name Acacia vera has also been used to denote the expressed juice of the immature pods of the tree termed Acacia veravel. This inspissated juice is brought from Egypt in roundish masses, wrapped up in thin bladders. It is considered as a mild astringent medicine. The Egyptians give it, in spitting of blood, in the quantity of a drachin, dissolved in any convenient liquor, and repeat this dose occasionally. They literate a copply it is collusion for attractive the control of the collusion of of the coll likewise employ it in collyria, for strengthening the eyes, and in gargles, for quinsies. It is now seldom used as a medicine, being superseded by the use of

catechu, or kino.

ACACIA VERAVEL. See Acacia vera. ACACIA ZEYLONICA. See Hæmatoxylon Campechia-222112.

See Acacia vera. Acacia gum.

Acacos. The thrush. See Aphtha. ACALIYCINUS. (From a, priv. and calyx, a flower-Without a calyx.

cup.) Without a calyx.

ACALYCIS. (From a, priv. and calyx, a flowercup.) Without a calyx or flower-cup. Applied to
plants which have no calyx.

ACA'MATOS. (From a, neg. and καμνω, to grow weary.) A perfect rest of the muscles, or that disposition of a limb which is equally distinct from flexion and extension.

ACA'NTHA. (Ακανθα; from ακη, a point.)

1. A thorn; or any thing pointed.

2. Sometimes applied to the spina dorsi. ACANTHA BOLUS. (From ακανθα, athorn; and βαλλω, An instrument, or forceps, for taking out or removing thorns, or whatever may stick in the flesh.

Paulus JE gineta.

Acainthe. The name of the artichoke in ancient

ACA'NTHINUM. (From ακανθα, a thorn.) Gumarabic was called gummi acanthinum, because it is produced from a thorny tree. See Acacia Vera. ACANTICONE. See ACANTHULUS. See Epidote.

ACA'NTHULUS. (From ακανθα, a thorn.) A surgical instrument to draw out thorns or splinters, or to remove any extraneous matter from wounds.

to remove any extraneous matter nota wouldon.

ACA/NTHUS. (Acanthus, i. m. ακανθος; from ακανθα, a thorn; so named from being rough and prickly.) The name of a genus of plants in the Linnæan system. Class, Didynamia; Order, Angiosper-Bear's-breech.

ACANTHUS MOLLIS. The systematic name of the AGANTHUS MOLLIS. The systematic name of the bear's-breech, or brank-ursine. Acanthus:—folias sinuatis inermibus, of Linnaus. Branca ursina of the shops. The leaves and root abound with a mucilage, which is readily extracted by boiling or infusion. The roots are the most mucilaginous. Where this plant is common, it is employed for the same purposes to which althea and other vegetables possessing similar qualities are applied among us. It is fallen into disuse. The herb-women too often sell the leaves of bear's-foot, and of cow's parsnip, for the bear's-breech.

Aca'pnon. (From a, priv. and καπνος, smoke.) 1. Common wild marjoram.

2. Unsmoked honey.
ACAROIS. The name of a genus of plants, from New South Wales.

ACAROIS RESINIFERA. The name of a tree which

affords the Botany bay gum. See Botany bay.

[Gum Acaroides, New Holland resin, or earthy
gum-lac. This is the produce of the tree called Acarois resinifera, or resin-bearing Acarois. grows abundantly in New Holland, near Botany bay. The substance under consideration is usually found in the ground near the trees from which it has spontaneously exuded. From some resemblance it bears (though by no means a near one) to the article called gum-lac, it has been known as the earthy gum-lac. It is of yellowish, brownish, or yellowish brown colour. and sometimes contains roots, sticks, and other foreign substances. It has been distinguished in commerce by the term Botany bay resin. They refer its importa-tion into England to the year 1799. An account of its the term Botany buy resm. They refer its importa-tion into England to the year 1799. An account of its chemical properties was published by Lichtenstein in Crell's Journal, and afterwards by Dr. Thompson, in the fourth volume of his Chemistry, p. 138. It was known to the early navigator Tasman, and was brought to New-York and presented to Dr. Mitchill many years ago by some of our navigators. For some time past it has been regarded in Massachusetts as a powerful restorative, or an invigorating medicine in cases of gastric or general debility.

Gum Acaroides is insoluble in water: alcohol or dis-(Sum Acaroides is insoluble in water: alcohol of distilled spirits is its proper menstruum. Even in powder its use is improper, as it is not acted upon by the intestinal or alimentary fluids. It is therefore meither administered in substance, infusion, or decoction. It is mostly prescribed in the form of tincture. Tinctura gummi acaroidis. Tincture of New Holland resin.

The proper rule is to make a saturated tincture, of which a tea-spoon full may be given once in three four hours, according to the circumstances, in milk, jelly, or syrup, water being apt to decompose it.
From Kite's essay upon this production, it appears,
1. That dyspepsia has been exceedingly relieved by

it, and even wholly removed.

2. That it is an excellent restorative in the debility consequent upon the depletion and exhaustion of acute 3. It is said to have done good in hysteria

4. Cholera, with cramps of the lower extremities, is reported to have yielded to its powers.

5. The morbid evacuations and commotions of diarrhœa are reported to have yielded to its virtue, after opium had failed.

6. Chronic and atonic catarrhs have been benefitted by its administration.

7. It is alleged to have been remarkably serviceable in incipient dysentery, as well as in that of long

duration. 8. In various spasmodic affections, such as stitches in the sides, cramp of the stomach, rheumatic twinges, &c., it has often afforded relief after opiates had failed.

It must be observed, however, that it is not to be prescribed in cases of high action, or phlogistic diathesis, nor during the prevalence of inflammatory symptoms.

From this abstract of the practice with this remedy, no doubt can be entertained of its value, nor of the

propriety of considering the discovery of its qualities, | as worthy to be considered among the happy event attending the modern Materia Medica.—Mitchill's MS.

Lectures. A.]
A'CARUS. (From axapps, small.) The tick. An insect which breeds in the skin. A very numerous genus of minute insects which infest the skin of animals, and produce various complaints. Those which are found on the human body are

1. The acarus domesticus, or domestic tick.
2. The acarus scabiei, or itch tick.

The acarus autumnalis, or harvest-bug.

ACATALE PSIA. (From a, neg. and καταλαμβανω, to apprehend.) Uncertainty in the prognosis or judg-

ment of diseases.

ACA TALIS. (From a, neg. and  $\chi \alpha \tau \varepsilon \omega$ , to want.)

The juniper tree: so named from the abundance of its

(From a, neg. and καταπινω, to swallow.) Difficult deglutition.

ACA'STATOS. (From a, neg. and καθιστημι, to deter-

mine.) Inconstant.

. Fevers were so called which are anomalous in their appearance and irregular in their paroxysms.

2. Turbid urine without sediment.

2. Turbid urine without sediment.
ACAULIS. (From a, priv. and caulis, a stem.)
Without stem. Plants destitute of stem are called
acaules, stemiess; as Cypripedium acaule, and Carduns acaulis. This term must not be too rigidly un-

ACCELERA'TOR. (From accelero, to hasten or ropel.) The name of a muscle of the penis.

ACCELERATOR URINÆ. A muscle of the penis Ejaculator Seminis; Bulbo-syndesmo-caverneux of Dunas; Bulbo-cavernosus of Winslow. It arises fleshy from the sphincter ani and membranous part of the urethra, and tendinous from the crus, near as far forwards as the beginning of the corpus cavernosum penis; the inferior fibres run more transversely, and the superior descend in an oblique direction. It is inserted into a line in the middle of the bulbous part of the urethra, where each joins with its fellow; by which the bulb is completely closed. The use of these mus-cles is to drive the urine or semen forward, and by grasping the bulbous part of the urethra, to push the blood towards its corpus cavernosum, and the glans,

by which they are distended.

ACCESSION. (Accesso; from accedo, to approach.)
The commencement of a disease. A term mostly applied to a fever which has paroxysms or exacerbations:

piren to a rever within has paroxysms of exaceroations. thus the accession of fever, means the commencement or approach of the febrile period. ACCESSO'RIUS. (From accede, to approach: so called from the course it takes.) Connected by contact or approach.

ACCESSORIUS LUMBALIS. A muscle of the loins.

See Sacro-lumbalis.

See Sucro-combatiss.

Accessorius Nervus. The name given by Willis to two nerves which ascend, one on each side, from the second, fourth, and fifth cervical pairs of nerves, through the great foramen of the occipital bone, and pass out again from the cranium through the foramina lacera, with the par vagum, to be distributed on the trapezius muscle.

ACCI'PITER. (From accipio, to take.)

 The hawk; so named from its rapacity.
 A bandage which was put over the nose; so called from its likeness to the claw of a hawk, or from the tightness of its grasp.

ACCIPITRI'NA. (From accipiter, the hawk.) The herb hawk-weed: which Pliny says was so called because hawks are used to scratch it, and apply the juice

to their eyes to prevent blindness ACCLIVIS. A muscle of the A muscle of the belly, so named from the oblique ascent of its fibres. See Obliques internus

decouchement. The French word for the act of

Accoucheur The French for a midwife.

ACCRETIO. (From ad, and cresco, to increase.) Accretion.

Nutrition; growth.

The growing together of parts naturally separate, as the fingers or toes (From accumbo, to recline.) Child-ACCUBA TIO.

bed; reclining.

Δεε'DIA. (From a, priv. and κηδος, care.) Careless-

ness, neglect in the application of medicines. Hippo-

reases magnetimes uses this word, in his treatise on the glands, to signify latigue or trouble.

ACE PHALUS. (Acephalus, i. m. ακεφαλος; from a, priv. and κεφαλη, a head.) Without a head. A term applied to a lusus nature, or monster, born with-

out a head

[This term is also applied by modern naturalists to a certain portion of the gelatinous or soft bodied animals, which were formerly classed among the Vermes Linnæus. They are now termed Acephalous Mollusce, or headless mollusee, having no distinct part

corresponding to the head of other animals. A.]

A'CER. (Acer. eris. neut.; from acer, sharp: because of the sharpness of its juice.) The name of a Class Polygagenus of plants in the Linnwan system.

mia; Order, Monæcia.
ACER CAMPESTRE. The common maple. This tree ACER CAMPESTEE. The common maple. It is tree yields a sweetish, soft, milky sap, which contains a salt with basis of lime, possessed, according to Sherer, of peculiar properties. It is white, semitransparent, not altered by the air, and soluble in one hundred parts of cold, or fifty of boiling water.

ACER FEMURICATIANUS. The maple-tree, falsely

ACER PSEUDOPLATANUS. The maple-tree, falsely named sycamore. It is also called Platanus traga. This tree is common in England, though not much used in medicine. The juice, if drank while fresh, is said to be a good antiscorbutic. All its parts contain a saccharine fluid; and if the root or branches be wounded in the spring, a large quantity of liquor is discharged, which, when inspissated, yields a brown sort of sugar

which, when hispassacs, and syrup like molasses.

ACER SACCHARINUM. The sugar maple-tree. Large quantities of sugar are obtained from this tree in New-England and Canada, which is much used in France, where it is commonly known by the name of Saccharum Canadense or Saccharum Acernum, maple sugar. It has been supposed that all Europe might be supplied from the maple of America, which grows in great quantities in the western counties of all the middle States of the American Union. It is as tall as the oak, and from two to three feet in diameter; puts forth a white blossom in the spring, before any appearance of leaves; its small branches afford sustenance for cattle, ashes afford a large quantity of excellent pot Twenty years are required for it to attain its full growth. Tapping does not injure it; but, on the contrary, it affords more syrup, and of a better quality, the oftener it is tapped. A single tree has not only survived, but flourished, after tapping, for forty years. Five or six pounds of sugar are usually afforded by the sap of one tree; though there are instances of the quantity exceeding twenty pounds. The sugar is separated from the sap either by freezing, by spontaneous evaporation, or by boiling. The latter method is the most used. Dr. Rush describes the process; which is simple, and practised without any difficulty by the farmers.

From frequent trials of this sugar, it does not appear to be in any respect inferior to that of the West Indies. It is prepared at a time of the year when neither insect. nor the pollen of plants, exists to vitiate it, as is the case with common sugar. From calculations grounded on facts, it is ascertained, that America is now capable of producing a surplus of one-eighth more than its

own consumption

[The Acer Saccharinum, or sugar-maple tree, abounds in the state of New-York and many other parts of the United States. It furnishes a great amount of rough sugar in the interior of the country and the new settlements, where foreign and refined sugars are but little used. Very little effort has heretofore been but little used. Very little enort has herectotore been made to introduce it into market as an article of commerce. But in 1828 several hundred barrels of this sugar, from the Territory of Michigan, reached the city of New-York by way of the great Western canal. It was sold at auction for six cents per pound; and when refined and converted into loaf sugar, it at the companyla register the refiner. forded a reasonable profit to the refiner. ACERATE. Aceras. A salt formed of the acid

of the Acer campestre with an alkaline, earthy, or metallic base

netallic base.

ACE/RATOS. From a, neg. and κεραω, or κερανImmixed: uncorrupted. This term is νυμι, to mix.) Unmixed; uncorrupted. This term is applied sometimes to the humours of the body by Hip pocrates. Paulus Ægineta mentions a plaster of this

ACERB. (Acerbus; from acer, sharp.) A species

of taste which consists in a degree of acidity, with an | addition of roughness; properties common to many immature fruits.

ACE'RBITAS. Acerbness.

ACERIC ACID. A peculiar acid, said to exist in the juice of the common maple, Acer campestre of Linneus. It is decomposed by heat, like the other

Linnaus. It is decomposed by Man, has the converged acids.

ACE'RIDES. (From a, priv. and kepos, wax.) Soft plasters, made without wax.

ACEROSUS. (From acue, a needle.) 1. Acerose: having the shape of a needle. Applied to leaves which are so shaped, as in Pinus sylvestris and Juniperus communis.

2. (From acus, chaff.) Chaffy: applied to coarse

bread, &c.

ACESCENT. (Acescens; from aceo, to be sour or tart.) Turning sour or acid. Substances which readily run into the acid fermentation, are so said to be, as some vegetable and animal juices and infusions. The suddenness with which this change is effected, during a thunder-storm, even in corked bottles, has not been accounted for. In some morbid states of the not been accounted for. stomach, also, it proceeds with astonishing rapidity.

ACE'STA. (From ακεομαι, to cure.) Distempers

which are easily cured.

ACETA BULUM. (Acetabulum, i. n.; from acetum, vinegar: so called because it resembles the acetabulum, or old saucer in which vinegar was held for the use of the table.) A name given by Latin writers to the cup-like cavity of the os innominatum, which receives the head of the thigh-bone. See Innomina-

tum os. ACETA'RIUM. (From acetum, vinegar: because it is mostly made with vinegar.) A saliad or pickle. ACETA'S. (Acetas, tis; f. from acetum, vinegar.) An acetate A salt formed by the union of the acetic acid, with a salifiable base. Those used in medicine acid, with a salifiable base. Those used in medicine are the acetates of ammonia, lead, potassa, and zinc.

ACETAS AMMONIE. Acetate of ammonia. See

Ammonia acetatis liquor.

ACETAS PLUMBI. Acetate of lead. See Plumbi acetas and Plumbi acetatis liquor.

ACETAS POTASS #. Acetate of potassa. See Potassa

acctas.

A metallic salt composed of zinc ACETAS ZINCI. A metallic salt composed of zinc and acetic acid. It is used by some as an astringent against inflammation of the eyes, urethra, and vagina, diluted in the same proportion as the sulphate of zinc.

Acetate. See Acetas. Acetate of Ammonia-See Ammonia acetatis

liquor.

quer. Acetate of Potassa. See Fotassa acetas. Acetate of Zinc. See Acetas znci. Acetated vegetable Alcali. See Potassa acetas. Acetated volatile Alcali. See Ammonia acetatis

ACETIC ACID. Acidum aceticum. which, in a very dilute and somewhat impure state, is called vinegar. Acetic acid is found combined with is called vinegar. Acetic acid is found combined with potassa in the juices of a great many plants; particularly the Sambucus nigra, Phanix dactilifera, Gatlium verum, and Rhus typhinus. "Sweat, urine, and even fresh milk, contain it. It is frequently generated in the stomachs of dyspeptic patients. Almost all dry vegetable substances, and some animal, sub-jected in close vessels to a red heat, yield it copiously. It is the result likewise of a spontaneous fermentation, to which liquid vegetable and animal matters are Strong acids, as the sulphuric and nitric, develope the acetic by their action on vegetables. It was long supposed, on the authority of Boerhaave, that the fermentation which forms vinegar is uniformly preceded by the vinous. This is a mistake: cabbages sour in water, making sour crout; starch, in starch-makers' sour waters; and dough itself, without any previous production of wine.

"The varieties of acetic acid known in commerce are four: 1. Wine vinegar. 2. Malt vinegar. 3. Sugar vinegar. 4. Wood vinegar.

"We shall describe first the mode of making these commercial articles, and then that of extracting the absolute acetic acid of the chemist, either from these vinegars, or directly from chemical compounds, of which it is a constituent.

"The following is the plan of making vinegar at

present practised in Paris. The wine destined for vinegar is mixed in a large tun with a quantity of wine lees, and the whole being transferred into clothsacks, placed within a large iron-bound vat, the liquid matter is extruded through the sacks by superincumbent pressure. What passes through is put into large casks, set upright, having a small aperture in their top. In these it is exposed to the heat of the sun in summer, or to that of a stove in winter. Fermenta-tion supervenes in a few days. If the heat should then rise too high, it is lowered by cool air and the addition of fresh wine. In the skilful regulation of the fermen-tative temperature consists the art of making good wine vinegar. In summer the process is generally completed in a fortnight: in winter, double the time is requisite. The vinegar is then run off into barrels, which contain several chips of birch-wood. In about a fortnight it is found to be clarified, and is then fit for

the market. It must be kept in close casks.

"The manufacturers at Orleans prefer wine of a year old for making vinegar. But it by age the wine has lost its extractive matter, it does not readily undergo the acetous fermentation. In this case, acetifi-cation, as the French term the process, may be deter-mined by adding slips of vines, bunches of grapes, or

green woods.

"Almost all the vinegar of the north of France being "Almost all the vinegar of the north of France being prepared at Orleans, the manufactory of that place has acquired such celebrity, as to render their process worthy of a separate consideration. The Orleans' casks contain nearly 400 pints of wine. Those which have been already, used are preferred. They are placed in three rows, one over another, and in the top have an aperture of two inches' diameter, kept always open. The wine for acetification is kept in adjoining open. The wine for acetinication is kept in adjoining casks, containing beech shavings, to which the lees adhere. The wine, thus clarified, is drawn off to make vinegar. One hundred pints of good vinegar, boiling hot, are first poured into each cask, and left there for eight days. Ten pints of wine are mixed in, every eight days, till the vessels are full. The vinegar is allowed to semain in this state, form days hofter its allowed to semain in this state, form days hofter. is allowed to remain in this state fifteen days before it

is allowed to remain in this state litteen days before it is exposed to sale.

"The used casks, called mothers, are never emptied more than half, but are successively filled again, to acetify new portions of wine. In order to judge if the mother works, the vinegar-makers plunge a spatula into the liquid; and according to the quantity of froth which the spatula shows, they add more or less wine. In summer, the atmospheric heat is sufficient. In winter, stoves heated to about 75° Fahr, maintain the requisite temperature in the manufactory.

"In some country districts, the people keep, in a

requisite temperature in the manufactory.

"In some country districts, the people keep, in a place where the temperature is mild and equable, a vinegar cask, into which they pour such wine as they wish to acetify; and it is always preserved full by replacing the vinegar drawn off, by new wine. To establish this household manufacture, it is only necessary to have first e-mall cash of good vinegar.

sary to buy at first a small cask of good vinegar.

"At Gand, a vinegar from beer is made, in which
the following proportions of grain are found to be

most advantageous:-

1880 Paris lbs. malted barley. 700 buckwheat. 500

These grains are ground, mixed, and boiled, along with twenty-seven casks full of river water, for three hours. Eighteen casks of good beer for vinegar are obtained. By a subsequent decoction, more fermentable liquid is extracted, which is mixed with the former. The whole brewing yields 3000 English quarts.

former. The whole brewing yields 3000 English quarts "In this country, vinegar is usually made from malt. By masking with hot water, 100 gailons of wort are extracted in less than two hours from 1 boll of malt. When the liquor has fallen to the temperature of 75° Pahr. 4 gallons of the harm of beer are added. After thirty-six hours it is racked off into casks, which are laid on their sides, and exposed, with their bungholes loosely covered, to the influence of the sun in holes loosely covered, to the influence of the sun in three months this vinegar is ready for the manufacture of sugar of lead. To make vinegar for demostic use, however, the process is somewhat different. The above fujuor is racked off into casks placed upright, having a fulse cover, pierced with notes fixed at about a foot from their bottom. On this a considerable quantity of rape, or the refuse from the

makers of British wine, or otherwise a quantity of low-priced raisins, is laid. The liquor is turned into ano-ther barrel every twenty-four hours, in which time it has begun to grow warm. Sometimes, indeed, the vinegar is fully fermented, as above, without the rape, which is added towards the end, to communicate flavour. Two large casks are in this case worked together, as is described long ago by Boerhaave, as follows

" Take two large wooden vats or hogsheads; and in each of these, place a wooden grate or hurdle, at the distance of a foot from the bottom. Set the vessel upright; and on the grate, place a moderately close layer of green twigs, or fresh cuttings of the vine. Then all up the vessel with the footstalks of grapes, commonly called the rape, to the top of the vessel,

which must be left quite open.

"Having thus prepared the two vessels, pour into them the wine to be converted into vinegar, so as to fill one of them quite up, and the other but half-full. nll one of them quite up, and the other but half-full. Leave them thus for twenty-four hours, and then fill up the half-filled vessel with liquor from that which is quite full, and which will now in its turn only be left-half-full. Four-and-twenty hours afterwards, repeat the same operation; and thus go on, keeping the vessels alternately full and half-full during twenty-four hours, till the vinegar be made. On the second or third day, there will arise in the half-filled vessel a fermentative motion accommand with a sensible fermentative motion, accompanied with a sensible heat, which will gradually increase from day to day. heat, which will gradually increase from day to day. On the contrary, the fermenting motion is almost imperceptible in the full vessel; and as the two vessels are alternately full and half-full, the fermentation is by this means in some measure interrupted, and is only renewed every other day in each vessel.

"When this motion appears to have entirely ceased, even in the half-filled vessel, it is a sign that the fermentation is finished; and therefore the vinegar is then to be put into casks close stopped, and kept in second place.

a cool place.

"'A greater or less degree of warmth accelerates or checks this, as well as the spirituous fermentation. In France, it is finished in about fifteen days, during the summer; but if the heat of the air be very great, and exceed the twenty-fifth degree of Reaumur's thermometer (88 1-4° Fahr.) the half-filled vessel must be filled up every twelve hours; because, if the fermentation be not so checked in that time, it will become violent and the liquor will be so heated, that many of violent, and the liquor will be so heated, that many of the spirituous parts, on which the strength of the vine-gar depends, will be dissipated, so that nothing will remain after the fermentation but a vapid fujour, sour indeed, but effete. The better to prevent the dissipation of the spirituous parts, it is a proper and usual pre-caution to close the mouth of the half-filled vessel in caution to close the mouth of the marinical vesser in which the liquor ferments, with a cover made of oak wood. As to the full vessel, it is always left open, that the air may act freely on the liquor it contains: for it is not liable to the same inconveniences, because it ferments but very slowly.'

"Good vinegar may be made from a weak syrup, consisting of 18 oz. of sugar to every gallon of water. consisting of 15 oz. of sugar to every gailon of water. The yeast and rape are to be here used as above described. Whenever the vinegar (from the taste and flavour) is considered to be complete, it ought to be decanted into tight barrels or bottles, and well secured from access of air. A momentary ebullition before it is bottled is found favourable to its preservation. In a

large manufactory of malt vinegar, a considerable revenue is derived from the sale of yeast to the bakers. "Vinegar obtained by the preceding methods has more or less of a brown colour, and a peculiar but rather grateful smell. By distillation in glass vessels the colouring matter, which resides in a mucilage, is esparated, but the fragrant odour is generally replaced by an empyreumatic one. The best French wine vinegars, and also some frop malt, contain a little alcohol. gars, and also some from malt, contain a little alcohol, which comes over early with the watery part, and renders the first product of distillation scarcely denser, renders the first product of institution scalety densets, sometimes even less dense, than water. It is accordingly rejected. Towards the end of the distillation the empyreuma increases. Hence only the intermediate portions are retained as distilled vinegar. Its specific gravity varies from 1.005 to 1.015, while that of common vinegar of equal strength varies from 1.010

"A crude vinegar has been long prepared for the

calico printers, by subjecting wood in iron retorts to 8

strong red heat."
"The acetic acid of the chemist may be prepared in the following modes; lst. Two parts of fused acetate of potassa with one of the strongest oil of vitriol yield, of potassas with one of the strongest oil of vitriol yield, by show distillation from a glass retort into a refrigerated receiver, concentrated acetic acid. A small portion of sulphurous acid, which contaminates it, may be removed by re-distillation, from a little acetate of lead. 2d. Or four parts of good sugar of lead, with one part of sulphuric acid treated in the same way, afford a slightly weaker acetic acid. 3d. Gently caicined sulphate of june, or green, vitriol, mixed with one part of sulphuric acid treated in the same way, afford a slightly weaker acetic acid. 3d. Gently calcined sulphate of iron, or green vitriol, mixed with sugar of lead in the proportion of 1 of the former to 2 1-2 of the latter, and carefully distilled from a porcelain retort into a cooled receiver, may be also considered a good economical process. Or without distillation, if 100 parts of well-dried acetate of lime be cautiously added to 60 parts of strong sulphuric acid, diluted with 5 parts of water, and digested for 24 hours, and strained, a good acetic acid, sufficiently strong for every ordinary purpose, will be obtained. "The distillation of acetate of copper, or of lead per se, has also been employed for obtaining strong acid. Here, however, the product is mixed with a portion of the fragrant pyro-acetic spirit, which it is troublesome to get rid of. Undoubtedly the best process for the strong acid is that first described, and the cheapest the second or third. When of the utmost possible strength lies sp. gravity is 1.062. At the temperature of 50° F. it assumes the solid form, crystallizing in oblong rhombolidal plates. It has an extremely pungent odour, affecting the nostrils and eyes even painfully, when its vapour is incautiously snuffed up. It staste is eminently acid and acid. It excoriates and inflames the skin.

"The murrified wood vinegar, which is used for

inflames the skin.

inflames the skin.

"The purified wood vinegar, which is used for pickles and culinary purposes, has commonly a specific gravity of about 1.009; when it is equivalent in acid strength to good wine or malt vinegar of 1.014. It contains about 1-20 of its weight of absolute acetic acid, and 19-20 of water. But the vinegar of fermentation=1.014 will become only 1.023 in acetate, from which, if 0.005 be subtracted for mucilage or extractive, the remainder will agree with the density of the acetate from wood. A glass hydrometer of Fahrenheit's construction is used for finding the specific gravities. It consists of a globe of about 3 inches? diameter. vities. It consists of a globe of about 3 inches' diameter, having a little ballast ball drawn out beneath, and a stem above of about 3 inches long, containing a slip of paper with a transverse line in the middle, and surpaper with a transverse me in the induce, and sur-mounted with a little cup for receiving weights or poises. The experiments on which this instrument, called an Acetometer, is constructed, have been detailed in the sixth volume of the Journal of Science."

in the sixth volume of the Journal of Science."

"An acetic acid of very considerable strength may also be prepared by saturating perfectly dry charcoal with common vinegar, and then distilling. The water easily comes off, and is separated at first; but a stronger heat is required to expel the acid. Or by exposing vinegar to very cold air, or to freezing by exposing vinegar to very cold air, or to freezing mixtures, its water separates in the state of ice, the interstices of which are occupied by a strong acetic acid, which may be procured by draining. The acetic acid, or radical vinegar of the apotnecaries, in which they dissolve a little camphor, or fragrant essential oil, has a specific gravity of about 1.070. It contains fully 1 part of water to 2 of the crystallized acid. The pungent smelling salt consists of sulphate of potash moistened with that acid.

"Acetic acid acts on tin, iron, zinc, copper, and nickel; and it combines readily with the oxydes of many other metals, by mixing a solution of their sulphates with that of an acetate of lead."

" Acetic acid dissolves resins, gum-resins, camphor,

and essential oils."

and essential oils."

"Acetic acid and common vinegar are sometimes fraudulently mixed with sulphuric acid to give them strength. This adulteration may be detected by the addition of a little chalk, short of their saturation. With pure vinegar the calcareous base forms a limpid solution, but with sulphuric acid a white insoluble gypsum. Muriate of barytes is a still nicer test. British fermented vinegars are allowed by law to contain a little sulphuric acid, but the quantity is frequently exceeded. Copper is discovered in vinegars by super-saturating them with ammonia, when a fine hime saturating them with ammonia, when a fine blue

colour is produced; and lead by sulphate of soda, hydrosulphurets, sulphuretted hydrogen, and gallic acid. None of these should produce any change on genuine vinegar." See Lead.

"Salts consisting of the several bases, united in definite proportions to acetic acid, are called acetates. They are characterized by the pungent smell of vinegar, which they exhale on the affusion of sulphuric acid; and by their yielding on distillation in a moderate red heat a very light, odorous, and combustible liquid called pyro-acetate (sprint); which see. They are all soluble in water; many of them so much so as to be uncrystallizable. About 30 different acetates have been formed, of which only a very few have been applied to the uses of life. been applied to the uses of life.

The acetic acid unites with all the alkalies and most of the earths; and with these bases it forms compounds, some of which are crystallizable, and others have not yet been reduced to a regularity of figure. The salts it forms are distinguished by their control with the compound of the control with the contro great solubility; their decomposition by fire, which carbonizes them; the spontaneous alteration of their solution; and their decomposition by a great number of acids, which extricate from them the acetic acid in a concentrated state. It unites likewise with most of

the metallic oxides.

"With barytes the saline mass formed by the acetic acid does not crystallize; but, when evaporated to dryness, it deliquesces by exposure to air. This mass is not decomposed by acid of arsenic. By spontaneous evaporation, however, it will crystallize in fine transparent prismatic needles, of a bitterish acid taste, which do not deliquesce when exposed to the air, but rather effloresce.

'With potassa this acid unites, and forms a deli-quescent salt scarcely crystallizable, called formerly foliated earth of tartar, and regenerated tartar. The solution of this salt, even in closely stopped vessels, is spontaneously decomposed: it deposites a thick, mucous, flocculent sediment, at first gray, and at length black; till at the end of a few months nothing remains in the liquor but carbonate of potassa, rendered impure by a

little coaty oil.
"With soda it forms a crystallizable salt, which

"With soda it forms a crystallizable salt, which does not deliquesce. This sait has very improperly been called mineral foliated earth. According to the new nomenclature, it is accetate of soda.
"The sait formed by dissolving chalk or other calcareous earth in distilled vinegar, formerly called salt of chalk, or fixed vegetable sal ammoniac, and by Bergman calx accetata, has a sharp bitter taste, appears in the form of crystals resembling somewhat ears of corn, which remain dry when exposed to the air, unless the acid has been superabundant, in which case they deliquesce." they deliquesce.

Of the acctate of strontian little is known, but that it has a sweet taste, is very soluble, and is easily

decomposed by a strong heat.

decomposed by a strong heat.

"The salt formed by uniting vinegar with ammonia, called by the various names of spirit of Mindererus, liquid sal ammoniac, acetous sal ammoniac, and by Bergman alkali volatile acetatum, is generally in a liquid state, and is commonly believed not to be crystallizable, as in distillation it passes entirely over into the receiver. It nevertheless may be reduced into the form of small needle-shaped crystals, when this liquor is evaporated to the consistence of a syrup.

"With magnesia the acetic acid unites, and after a "With magnesta the acent and mines, and after a perfect saturation, forms a viscid saline mass, like a solution of gum-arabic, which does not shoot into crystals, but remains deliquescent, has a taste sweetish at first, and afterwards bitter, and is soluble in spirit of wine. The acid of this saline mass may be

separated by distillation without addition.

"Glucine is readily dissolved by acetic acid. solution, Vauquelin informs us, does not crystallize; but is reduced by evaporation to a gummy substance, which slowly becomes dry and brittle; retaining a kind of ductility for a long time. It has a saccharine and pretty strongly astringent taste, in which that of vinegar, however is digitinguishable.

and pretty strongly astringent taste, in which that of vinegar, however, is distinguishable.

"Yttria dissolves readily in acctic acid, and the solution yields by evaporation crystals of acetate of yttria."

"Alumine, obtained by boiling alum with alkali, and edulcorated by digesting in an alkaline lixivium, is dissolved by distilled vinegar in a very inconsiderable quantity."

"Acetate of zircone may be formed by pouring acetic acid on newly precipitated zircone. It has an astringent taste

Vinegar dissolves the true gums, and partly the

"Vinegar dissolves the true gums; and party and gum-resins, by means of digestion.

"Boerhaave observes, that vinegar by long boiling dissolves the flesh, cartilages, bones, and ligaments of animals."—Ure's Chemical Dictionary.

Madanthus matified approximation and the second programme and the s

Moderately rectified pyrolignous acid has been re-commended for the preservation of animal food; but the empyreumatic taint it communicates to bodies immersed in it, is not quite removed by their subsequent

ebullition in water. See Acid, Pyrolignous.

The utility of vinegar as a condiment for preserving and seasoning both animal and vegetable substances in various articles of food is very generally known. It in various articles of food is very generally known. It affords an agreeable beverage, when combined with water in the proportion of a table-spoonful of the former to half a pint of the latter. It is often employed as a medicine in inflammatory and putrid diseases, when more active remedies cannot be procured. Relief has likewise been obtained in hypochondriacal and hysteric affections, in vomiting, fainting, and hiccough, by the application of vinegar to the mouth. If this fluid be poured into vessels and placed over the gentle heat of a lamp in the apartments of the sick, it greatly contributes to disnerse foull or mephitic vapours, and contributes to disperse foul or mephitic vapours, and consequently to purify the air. Its anticontagious consequently to purify the air. Its anticontagious powers are now little trusted to, but its odour is employed to relieve nervous headache, fainting fits, or

ployed to relieve hervous negative, raining are, or sickness occasioned by crowded rooms.

As an external application, vinegar proves highly efficacious when joined with farinaceous substances, and applied as a cataplasm to sprained joints; it also forms an eligible lotion for inflammations of the surface, when mixed with alcohol and water in about equal proportions. Applied to burns and scalds, it is said to be highly serviceable whether there is a loss of said to be highly serviceable whether there is a loss of substance or not, and to quicken the exfoliation of ca-rious bone. (Gloucester Infirmary.) Mixed with an infusion of sage, or with water, it forms a popular and excellent gargle for an inflamed throat, also for an in-jection to moderate the fluor albus. Applied cold to the nose in cases of hemorrhage, also to the loins and abdomen in menorrhagia, particularly after parturi-tion, it is said to be very serviceable. An imprudent use of vinegar internally is not without considerable inconveniences. Lave and frequent doese injure the inconveniences. Large and frequent doses injure the inconveniences. Large and frequent doses injure the stomach, coagulate the chyle, and produce not only leanness, but an atrophy. When taken to excess by females, to reduce a corpulent habit, tubercles in the lungs and a consumption have been the consequence.

["When any of the vinous liquors are exposed to the free access of atmospheric air, at a temperature of 80 to 85 degrees, they undergo a second fermentation, terminating in the production of a sour liquid, called vinear. Turing this process a nortion of the overen

terminating in the production of a sour indude, cancel vinegar. During this process a portion of the oxygen of the air is converted into carbonic acid; hence, unlike vinous fermentation, the contact of the atmosphere is necessary, and the most obvious phenomenon is the removal of carbon from the beer or wine. Vinegar is usually obtained from malt liquor or cider, while wine is employed as its source in those countries where the grape is abundantly cultivated.—Webster's Manuel of Chemistry.

Vinegar for ordinary use may also be made from sugar, molasses, raisins, or other fruits, or from the re-

fuse of fruits, as follows:

inse of truits, as follows:

"Take the skins of raisins after they have been used in making wine, and pour three times their own quantity of water upon them; stir them well about, and then set the cask in a warm place, also covered, and the liquor in a few weeks' time will become a sound vinegar, which drawn off from its sediments, put into another cask, and well bunged down, will be a good vinegar for the table."—Beastall's Useful Carids. A

(Acetificatio; from acetum, ACETIFICATION. vinegar, and fio, to make.)
by which vinegar is made.
ACETOMETER. An

An instrument for estimating

ACETOMETER. An instrument or estimating the strength of vinegars. See Acetic Acid.

ACETO SA. (From acesso, to be sour.) Sorrel. A genus of plants in some systems of beauty. See Rumetz.

ACETOSELLA. (From acetosa, sorrel: so called from the acidity of its leaves.) Wood-sorrel. See Oxalis acetosella.

ACETOUS. Of or belonging to vinegar.

Acetous Acid. See Acetum.

Actions Fermentation. See Fermentation.

ACE'TUM. (Acetum, i. n.; from acer, sour.) Vinegar. A sour liquor obtained from many vegetable negar. A sour induor obtained from many vegetable substances dissolved in boiling water, and from fermented and spirituous liquors, by exposing them to heat and contact with air; under which circumstances they undergo the acid fermentation, and afford the liquor called vinegar. Common vinegar consists of acetic acid combined with a large portion of water, and with this are in solution portions of gluten, mucilage, sugar, and extractive matter, from which it derives its colour, and frequently some of the vegetable acids, particularly the malic and the tartaric. See Acetic Acid.

ACETUM AROMATICUM. Aromatic vinegar. A pre-paration of the Edinburgh Pharmacopæia, thought to be an improvement of what has been named thieves

Take of the dried tops of rosemary, the dried leaves of sage, of each four ounces; dried lavender flowers, two ounces; cloves, two drachms; distilled vinegar, eight pounds. Macerate for seven days, and strain the expressed juice through paper. Its virtues are anti-septic, and it is a useful composition to smell at in crowded courts of justice, hospitals, &c. where the air

ACETUM COLCHICI. Vinegar of meadow-saffron. Take of fresh meadow-saffron root sliced, an ounce; acetic acid, a pint; proof spirit, a fluid ounce. Macerate the meadow-saffron root in the acid, in a covered glass vessel, for three days; then press out the liquor and set it by, that the feculencies may subside; lastly, add the spirit to the clear liquor. The dose is from 3 set 0 3 is.

ACETUM DISTILLATUM. See Acidum accticum di-

lutum

Lutum.

ACETUM SCILLE. Vinegar of squills. Take of squills recently dried, one pound; dilute acetic acid, six pints; proof spirit, half a pint. Macerate the squills with the vinegar in a glass vessel, with a gentle heat for twenty-four hours; then express the liquor and set it aside until the faces subside. To the decanted liquor add the spirit. This preparation of squills is employed as an attenuant, expectorant, and diuretic. ose, xv. to lx. drops.
A'CHEIR. (From a, neg. and χειρ, hand.) With-

out hands.

Acut. lib. iii. cap. 17, expresses the sudatorium of the ancient baths, which was a hot room where they used

ACHILLE'A. (Achillea, α, ℓ. Αχιλλεια: from Achilles, who is said to have made his tents with it, or to have cured Telephus with it.) 1. The name of a genus of plants in the Linnean system. Class Syn-Αχιλλεια: genesia; Order, Polygamia superflua.
2. The pharmaceutical name of the milfoil.

Achillea millefolium,

ACHILLEA AGERATUM. Maudlin, or maudlin tansy. Rutsumita famina; Eupatorium Mesaes This plant, the ageratium of the shops, is described by Linnaus as Achillea;—foliis lancolatis, obtusis, acutoscratis. It is esteemed in some countries as anthelimindic and

It is esteemed in some countries as anthemmittie and alterative, and is given in hepatic obstructions. It possesses the virtues of lansy.

ACHILLEA MILLEFOLIUM. The systematic name of the common yarrow, or milfoil. Achillea; Myriophyllon; Chiliophyllon; Lumbus veneris; Militaris herba; Stratutes; Carpentaria; Speculum veneris. The leaves and flowers of this indigenous plant, Achilleachies beingards; mains: hacking linearities dentatis; leaves and nowers of this mongenous mant, Achitlea-foliss bipinnatis mutis; loainis lisuaribus dentatis; caulibus superne sulcatis of Linnaus, have an agree-able, weak, aromatic smell, and a bite-rish, rough, and somewhat pungent taste. They are both directed for medicinal use in the Edinburgh Pharmacopæia; in the present practice, however, they are almost wholly neglected.

gleeted.

Acellea Ptarmica. The systematic name of the sneeze-wort, or bastard pellitory. Pseudopyrethrum; Pyrethrum sulvestre; Draco sulvestre; Tarchon sylvestreis; Tarchon sylvestreis; The thowers and roots of this plant, Achillea—folius lanceolatis, accuminatis, argute serratis, have a hot biting taste, approaching to that of pyrethrum, with which they also agree in their pharmaceutical proper-

(Acetosus; from acetum, vinegar.) | ties. Their principal use is as a masticatory and sternutatory.

Schillea foliis pinnatis. See Genipi verum.

ACHILLES. The son of Peleus and Thetis, one of the most celebrated Grecian heroes. A tendon is named after him, and also a plant with which he is said to have cured Telephus.

ACHILLIS TENDO. The tendon of the gastrocnemii muscles. So called, because, as fable reports, Thetis, the mother of Achilles, head him by that part when she dipped him in the river Styx, to make him invulnerable. Homer describes this tendon, and some writers suppose it was thus named by the ancients, from their Gastrocnemius externus, and Gastrocnemius internus.

When this tendon is unfortunately cut or ruptured, when this tendon is unfortunately cut of ruplined, as it may be in consequence of a violent exertion, or spasm of the muscles of which it is a confinuation, the use of the leg is immediately lost, and unless the part be afterwards successfully united, the patient must remain a cripple for life. When the tendon has been main a cripple for life. When the tendon has been cut, the division of the skin allows the accident to be When the tendon has been ruptured, the patient hears the sound like that of the smack of a whip, tient hears' the sound like that of the smack of a whip, at the moment of the occurrence. In whatever way the tendon has been divided, there is a sudden incapacity, or at least an extreme difficulty, either of standing or walking. Hence the patient falls down, and cannot get up again. Besides these symptoms there is a very palpable depression between the ends of the tendor; which depression is increased when the foot is bent, and diminished, or even quite removed when the foot is extended. The patient can spontaneously bend his foot, none of the flexor muscles being interested. The power of extending the foot is still possible, as the peronei muscles, the tibilities posticus, and long flexors. peronei muscles, the tibialis posticus, and long flexors, remain perfect, and may perform this motion. The indications are to bring the ends of the divided parts together, and to keep them so, until they have become firmly united. The first object is easily fulfilled by putting the foot in a state of complete extension; the second, namely, that of keeping the ends of the ten don in contact, is more difficult. It seems unnecessary to enumerate the various plans devised to accomplish these ends. The following is Desault's me thod: After the ends of the tendon had been brought into contact by moderate flection of the knee are peronei muscles, the tibialis posticus, and long flexors, into contact by moderate flection of the knee, and complete extension of the foot, he used to fill up the hollows on each side of the tendon with soft lint and compresses. The roller applied to the limb, made as much pressure on these compresses as on the tendon, and hence this part could not be depressed too much against the adjacent parts. Desault next took a com-press about two inches broad, and long enough to reach from the toos to the middle of the thigh, and placed it under the foot, over the back of the leg and lower part of the thigh. He then began to apply a few circles of a roller round the end of the foot, so as to fix the lower extremity of the longitudinal compress; after covering the whole foot with the roller, he used to make the ing the whole foot with the roller, he used to make the bandage describe the figure of 8, passing it under the foot and across the place where the tendon was rup-tured, and the method was finished by encircling the limb upward with the roller as far as the upper end of the longitudinal compress.

A'CHLYS. (Αλυς.) Darkness; cloudiness. An obsolete term, generally applied to a close, foggy air,

or a mist,

Hippocrates, de Morbis Mulierum, lib. ii. signifies by this word air, condensed air in the womb.

2. Galen interprets it of those, who, during sickness, lose that lustre and loveliness observed about the pupil

of the eye in health.

3. Others express it by an ulcer on the pupil of the

Others express it by an ulcer on the pupil or the eye, or the scar left there by an ulcer.
 It means also an opacity of the cornea; the same as the caligo cornea of br. Cullen.
 ACHMETLIA. See Spilanthus acmella.
 ACHOLUS. (From a, priv. and χολη, bile.) Deficient in bile.

ficient in bile.

A'CHOR. (Achor, oris. m. αχωρ, qu. αχνωρ; room light, white, flaky matter. Its properties are likewise αχυη, bran: according to Blanchard it is derived from lentirely altered by this transformation. From being axin, than sections to bianchard its derived from a, pity and xwaps, space, as occupying but a smail compass.) Luctumen; Abas; Acores; Cerion; Fuvus; Crusta lactea of authors. The scala-head; so called from the branny scales thrown off it. A disease which attacks the hairy scalp of the head, for the most part, of young children, forming soft and scaly eruptions. Dr. Willan, in his description of different kinds of pustules, defines the achor, a pustule of intermediate size between the phlyzacium and psydracium, mediate size between the phlyzacium and psydracium, which contains a straw-coloured fluid, having the appearance and nearly the consistence of strained honey. It appeared most frequently about the head, and is succeeded by a dull white or yellowish scab. Pustules of this kind, when so large as nearly to equal the size of phlyzacia, are termed ceria or favi, being succeeded by a yellow semi-transparent, and sometimes cellular, scab, like a honeycomb. The achor differs from the favus and tinea only in the degree of virulence. It is called favus when the perforations are large; and tinea when they are like those which are made by moths in cloth; but generally by tinea is understood a dry scab on the hairy scalp of children, with thick scales and an offensive smell. When this disorder affects the face, it is called crusta lactea or milk scab. Mr. Bell, in his Treatise on Ulcers, reduces the tinea capitis and crusta lactea to some species of herpes, viz. the herpes pus-

lactea to some species of herpes, viz. the herpes pus-tulosus, differing only in situation.

ACHORISTOS. Inseparable. This term was ap-plied by the ancients, to symptoms, or signs, which are inseparable from particular things. Thus, softness is inseparable from hunidity; hardness from fragility; and a puncon pain in the side is an inseparable symp-

and a pungent pain in the side is an inseparable symptom of a pleurisy.

ACHRAS. The name of a genus of plants in the Linnæm system. Class, Hexandria; Order, Monogynia. The sapota plum-tree.

ACHRAS SAPOTA. The systematic name of the tree which affords the oval-fruited sapota, seeds of which which anords the ovar-framed sapora, seeds of which are sometimes given in the form of emulsion in calculous complaints. It is a native of South America, and bears a fruit like an apple, which has, when ripe, a Juscious taste, resembling that of the marmalade of quinces, whence it is called natural marmalade. The bark of this, and the Achras mammosa is very astringent, and is used medicinally under the name of Cor-

tex jamaicensis.
ACHREI'ON. Useless. Applied by Hippocrates to the limbs which, through weakness, become useless

ACHROYA. A paleness.

A'CHYRON. Axugov. This properly signifies bran, or chaff, or straw. Hippocrates, de Morbis Mulierum, most probably means by this word, bran. Achyron also signifies a straw, hair, or any thing that sticks upon a wall.

6ticks upon a wall. A'ClA. (From ακη, a point.) A needle with thread in it for chirurgical operations. A'ClCYS. Weak, infirm, or faint. In this sense it is used by Hippocrates, de Morb. lib. iv. ACID. (Acidum, i. n.) 1. That which impresses upon the organs of taste a sharp or sour sensation. The wor'd sour, which is usually employed to denote the simple impression, or lively and sharp sensation produced on the tongue by certain bodies, may be regarded as synonymous to the word acid. The only difference which can be established between them, is, that the one denotes a weak sensation, whereas the other com-prehends all the degrees of force, from the least per-ceptible to the greatest degree of causticity: thus we say that verjuice, gooseberries, or lemons, are sour; but we use the word acid to express the impression which the nitric, sulphuric, or muriatic acids make upon the tongue.

2. Acids are an important class of chemical com pounds. In the generalization of facts presented by Lavoisier and the associated French chemists, it was the leading doctrine that acids resulted from the union of a peculiar combustible base called the radical, with a common principle technically called oxygen, or the acidifier. This general position was founded chiefly on the phenomena exhibited in the formation and decomposition of sulphuric, carbonic, phosphoric, and nitric acids; and was extended by a plausible analogy to other acids, the radicals of which were unknown. "I have already shown," says Lavoisier, "that phosphorus is changed by combustion into an extremely R 2

entirely altered by this transformation; from being insoluble in water, it becomes not only soluble, but so greedy of moisture as to attract the inmidity of the air with astonishing rapidity. By this means it is converted into a liquid, considerably more dense, and of more specific gravity than water. In the state of phosphorus before combustion, it had scarcely any sensible taste; by its union with oxygen it acquires an extremely sharp and sour taste; in a word, from one of the class of combustible bodies, it is changed into an incombustible substance, and becomes one of those bodies called acids.

"This property of a combustible substance, to be converted into an acid by the addition of oxygen, we shall presently find belongs to a great number of bodies. Wherefore strict logic requires that we should adopt a common term for indicating all these operations which produce analogous results. This is the true way to simplify the study of science, as it would be quite im-possible to bear all its specific details in the memory if they were not classically arranged. For this reason we shall distinguish the conversion of phosphorus into an acid by its union with oxygen, and in general every combination of oxygen with a combustible substance, by the term oxygenation; from this I shall adopt the verb to oxygenate; and of consequence shall say, that in oxygenating phosphorus, we convert it into an acid.

"Sulphur also, in burning, absorbs oxygen gas; the resulting acid is considerably heavier than the sulphur burnt; its weight is equal to the sum of the weights of the sulphur which has been burnt, and of the oxygen absorbed; and, lastly, this acid is weighty, incombustible, and miscible with water in all proportions.

"I might multiply these experiments, and show, by a numerous succession of facts, that all acids are formed by the combustion of certain substances : but I am prevented from doing so in this place by the plan which I have laid down, of proceeding only from facts already ascertained to such as are unknown, and of drawing my examples only from circumstances already explained. In the mean time, however, the examples above cited may suffice for giving a clear and accurate conception of the manner in which acids are formed, By these it may be clearly seen that oxygen is an ele-By these it may be clearly seen that oxygen is an ele-ment common to them all, and which constitutes or produces their acidity; and that they differ from each other according to the several natures of the oxyge-nated or acidified substances. We must, therefore, in every acid, carefully distinguish between the acidifiable base, which de Morveau calls the radical, and

acidifying principle or oxygen." Elements, p. 115.
"Although we have not yet been able either to compose or to decompound this acid of sea salt, we cannot have the smallest doubt that it, like all other acids, is composed by the union of oxygen with an acidinable base. We have, therefore, called this unknown substance the muriatic base, or muriatic radical."

Berthollet maintains, that Lavoisier had given too much latitude to the idea of oxygen being the universal aciditying principle. "In fact," says be, "it is carrying the limits of analogy too far to infer, that all acidity, even that of the muriatic, fluoric, and boracic acids, arises from oxygen, because it gives acidity to a great number of substances. Sulphuretted hydrogen, which really possesses the properties of an acid, proves directly that acidity is not in all cases owing to oxygen. There is no better foundation for concluding oxygen. There is no better foundation for constaining that hydrogen is the principle of alcalinity, not only in the alcalies, properly so called, but also in magnesia, lime, strontian, and barytes, because ammonia appears to owe its alcalinity to hydrogen.

"These considerations prove that oxygen may be regarded as the most usual principle of acidity, but that this species of affinity for the alcalies may belong to substances which do not contain oxygen: that we must not, therefore, always infer, from the acidity of a substance, that it contains oxygen, although this may be an inducement to suspect its existence in it; still less should we conclude, because a substance con-tains oxygen, that it must have acid properties; on the contrary, the acidity of an oxygenated substance shows that the oxygen has only experienced an incomplete saturation in it, since its properties remain pre-

This generalization of the French chemists concern-

ing oxygen, was first experimentally combated by Sir Humphry Davy, in a series of dissertations published in the Philosophical Transactions.

"His first train of experiments was instituted with the view of operating by voltaic electricity on muriatic and other acids treed from water. Substances which are now known by the names of chlorides of phosphorus and tin, but which he then supposed to contain dry muriatic acid, led him to imagine that intimately dry muriatic acid, led him to imagine that intimately combined water was the real aciditying principle, since acid properties were immediately developed in the above substances by the addition of that fluid, though previously they exhibited no acid powers. In July, 1810, however, he advanced those celebrated views concerning acidification, which, in the opinion of the best judges, display an unrivalled power of scientific research. The conclusions to which these led him, were incompatible with the general hypothesis of Lavoisier. He demonstrated that oxymuniatic acid is, as far as our knowledge extends, a *simple* substance, which may be classed in the same order of natural bodies as oxygen gas, being determined like oxygen to bodies as oxygen gas, being determined like oxygen to the positive surface in voltaic-combinations, and like oxygen combining with inflammable substances, pro-ducing heat and light. The combinations of oxynu-riatic acid with inflammable bodies were shown to be analogous to oxydes and acids in their properties Platic acid with inflammable bodies were shown to be analogous to oxydes and acids in their properties and powers of combination, but to differ from them in being, for the most part, decomposable by water; and, finally, that oxymuriatic acid has a stronger attraction for most inflammable bodies than oxygen. His preceding decomposition of the alcalies and earths having evinced the absurdity of that nomenclature which gives to the general and essential constituent of alcaline nature, the term oxygen or acidifier; his new discovery of the simplicity of oxymuriatic acid, showed the theoretical system of chemical language to be equally vicique in another respect. Hence this philosopher most judiciously discarded the appellation oxymuriatic acid, and introduced in its place the name chlorine, which merely indicates an obvious and permanent character of the substance, its greenish yellow colour. The more recent investigations of chemists on fluoric, hydriodic, and hydrocyanic acids, have brought powerful analogies in support of the chloridic theory, by showing that hydrogen alone can convert certain undecompounded bases into acids well characterized, without the aid of oxygen."

("After these chearyations on hear return of aciditions of chemists of the properties of the properties of the chloridic theory, by showing that hydrogen alone can convert certain undecompounded bases into acids well characterized, without the aid of oxygen." without the aid of oxygen.

" After these observations on the nature of acidity, we shall now state the general properties of the acids. 11. The taste of these bodies is for the most part

\*\*1. The taste of these brones is not at most species t is acrid and corrosive.

"2. They generally combine with water in every proportion, with a condensation of volume and evolu-

tion of heat.
"3. With a few exceptions they are volatilized or

decomposed at a moderate heat. They usually change the purple colours of vege-

tables to a bright red.

tables to a bright red.

"5. They unite in definite proportions with the alcalies, carths, and metallic oxydes, and form the important class of salts. This may be reckoned their characteristic and indispensable property."

"Thenard has lately succeeded in communicating to

many acids apparently a surcharge of oxygen, and thus producing a supposed new class of bodies, the oxygenized acids, which are, in reality, combinations of the ordinary acids with oxygenized water, or with

the deutoxide of hydrogen "The class of acids has been distributed into three The class of acids has been distributed into three orders, according as they are derived from the mineral, the vegetable, or the animal kingdom. But a more specific distribution is now requisite. They have also been arranged into those which have a single, and also been arranged into those which have a single, and those which have a compound basis or radical. This arrangement is not only vague, but liable in other respects to considerable objections. The chief advantage of a classification is to give general views to beginners in the study, by grouping together such sub-stances as have analogous properties or composition. These objects will be tolerably well attained by the

following divisions and subdivisions.

"1st. Acids from inorganic nature, or which are procurable without having recourse to animal or

etable products

vegetable products.

"2d. Acids elaborated by means of organization.
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<sup>13</sup> The first group is subdivided into three families: 1st. Oxygen acids; 2d. Hydrogen acids; 3d. Acids destitute of both these supposed acidifiers.

### Family 1st.-Oxygen acids. Section 1st, Non-metallic

11. Hypophosphorus. Boracic. 12. Phosphorus. Chloric. 13. Phosphatic. 14. Phosphoric. Perchloric? 15. Hyposulphurous. Chloro-Carbonic. 16. Sulphurous. Nitrous. 17. Hyposulphuric. Hyponitric. Nitric. 18. Sulphuric. 19. Cyanic? 10. Iodo-Sulphuric.

Section 2d, Oxygen acids.-Metallic. 6. Columbic. Arsenic. Molybdic. Arsenious Antimonious Molybdous. Tungstic. Chromic.

Family 2d.—Hydrogen acids.

6. Hydroprussic, or

Fluoric. Hydro-cyanic. Hydriodic. Hydrochloric, or Muria-Hydrosulphurous. Hydrotellurous.

4. Ferroprussic.
5. Hydroselenic.

23. Malic.

Sulphuroprussic.

Family 3d.—Acids without Oxygen or Hydrogen
Chloriodic. 3. Fluoboric.
Chloroprussic, or 4. Fluosilicic. 1. Chloriodic. Chloroprussic, or Chlorocyanic.

# Division 2d.-Acids of Organic Origin.

24. Meconic. Aceric. Menispermic. Acetic. Margaric. Melassic ? Benzoic. 28. Mellitic Boletic. Butyric 29 Moroxylie 30. Mucic. Camphoric. Caseic Nanceic? Nitro-leucic. Cevadic 10. 33. Nitro-saccharic Cholesteric. 34. Oleic Citric 35. Oxalic Delphinic. Purpuric. 36. 13. Ellagic? Pyrolithic.
Pyromalic.
Pyrotartaric. 14. Formic. Fungic. Gallic. 16 40. Rosasi Igasuric.

18. Kinic. 41. Saclactic. 19. Laccic. Sebacic. Lactic. 43. Suberic 20. 44. Lampic. Succinic Sulphovinic? Lithic, or Uric. 45.

The acids of the last division are all decomposable at a red heat, and afford generally carbon, hydrogen, oxygen, and, in some few cases, also nitrogen. The mellitic is found like amber in wood coal, and, like it, is undoubtedly of organic origin."

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undoubtedly of organic origin."
Acid, aceric. Bee Aceric acid.
Acid, acetic. See Acetum.
Acid, acetus. Bee Acetum.
Acid, acetous. Bee Acetum.
Acid, acetous. Bee Acetum.
Acid, acetral. See Carbonic acid.
Acid, atminous. See Sulphuric acid.
Acid, amniotic. See Amniotic acid.
Acid, animal. See Acid.
Acid, animanus. Bee Animony.
Acid, antimonous. Bee Antimony. Acid, antimonous. See Antimony. Acid of ants. See Formic acid. Acid of ants. See Formic acid.
Acid, arsenical. See Arsenic.
Acid, arsenical. See Arsenic.
Acid, benvoic. See Benvoic acid.
Acid, belvic. See Belvic acid.
Acid, boracic. See Beracic acid.
Acid, camphoric. See Camphoric acid.
Acid, carbonic. See Carbonic acid.
Acid, cassic. See Casci acid.

Acid, caseic. See Caseic ac Acid, cetic. See Cetic acid.

Acid, phosphoric. See Phosphoric acid.
Acid, phosphorous. See Phosphorous acid.
Acid, prussic. See Prussic acid
Acid, pruspurie.
Acid, purpurie.
Acid, pyro-accic. See Pyro-accitic acid.
Acid, pyro-cutric. See Pyro-cutric acid.
Acid, pyrodiric. See Pyro-furcic acid.
Acid, pyromucous. See Pyro-mucic acid.
Acid, pyromucous. See Pyro-mucic acid.
Acid, pyrotartarous. See Pyro-incid.
Acid, protartarous. See Pyro-incid.
Acid, probablatic. See Mucin acid.
Acid

See Stannic acid.

Acid, stibious. See Stibio acid.
Acid, stibious. See Stibious acid.
Acid, subcric. See Stiberic acid.
Acid, succinic. See Succinic acid.
Acid, sucphoreyamic. See Sulphuro-prussic acid.
Acid, sulphoreyamic. See Sulphuro-prussic acid.
Acid, sulphureous. See Sulphurous acid.
Acid, sulphureous. See Sulphurous acid.
Acid, sulphuretted chyazic. See Sulphuro-prussic cid.

Acid, saccho-lactic. See Mucic acid. Acid, saclactic. See Mucic acid. Acid, sebacic. See Sebacic acid. Acid, selenic. See Selenic acid. Acid, silicated fluoric. Acid, silicated fluoric. Acid, sorbic. See Sorbic acid. Acid, stannic. See Stunnic ac Acid, stibic. See Stibic acid.

Acid, perlate. See Perlate acid. Acid, pernatrous. See Hyponitrous acid. Acid, phosphatic. See Phosphatic acid. Acid, phosphoric. See Phosphoric acid.

Acid, chloric See Chloric acid. Acid, chloriodic. See Chloriodic acid. Acid, chlorous. See Chlorous acid. Acid, chloro-carbonic. See Chloro-carbonous acid. Acid, chloro-carbonic. See Chloro-carbonous acid. Acid, chloro-cyanic. See Chloro-cyanic acid. Acid, chloro-cyanic. See Chloro-cyanic acid. Acid, chloro-prussio. See Chloro-cyanic acid. Acid, chloro-prussio. See Chloro-cyanic acid. Acid, chromic. See Chronic acid.
Acid, columbic. See Celumbic acid.
Acid, columbic. See Celumbic acid.
Acid, dephlogisticated muriatic. See Chlorine.
Acid, deligie. See Ellagic acid.
Acid, ferro-chyazic. See Ferro-prussic acid.
Acid, ferro-chyazic. See Ferro-prussic acid.
Acid, ferro-prussic. See Ferro-prussic acid.
Acid, ferro-prussic. See Ferro-prussic acid.
Acid, funcic. See Fluoboric acid.
Acid, fluoric. See Fluoric acid.
Acid, fluoric. See Funcic acid.
Acid, hydrochloric. See Muriatic acid.
Acid, hydrocyanic. See Phosphorous acid.
Acid, hydrocyanic. See Phosphorous acid.
Acid, hydrophosphorous. See Phosphorous acid.
Acid, hydrophosphorous. See Phosphorous acid.
Acid, hydrophosphorous. See Sulphuretted hydrogen.
Acid, hydrophosphuric. See Sulphuretted hydrogen. and Phosgene. Acid, hydrosulphuric. See Sulphuretted hydrogen. Acid, hydrothionic. See Sulphuretted hydrogen. Acid, hyponitrous. See Hyponitrous acid. Acid, hyponitrous. See Hyponitrous acid.
Acid, hypophosphorous. See Hypophosphorous acid.
Acid, hyposulphurus. See Hyposulphurus acid.
Acid, hyposulphurus. See Hyposulphurus acid.
Acid, igasuric. See Igasuric acid.
Acid, imperfect. These acids are so called in the chemical nomenclature, which are not fully saturated with oxygen. Their names are ended in Latin by with oxygen. Their names are ended in Latin by osum, and in English by ous: e. g. acidum nitrosum, or nitrous acid. See Iodic acid. Acid, sodsc. See fodic acid.
Acid, iodosulphuric. See Icdosulphuric acid.
Acid, kinic. See Kinic acid.
Acid, krameric. See Krameric acid.
Acid, laccic. See Laccic acid.
Acid, lactic. See Lactic acid.
Acid, lampic. See Lampic acid.
Acid, lampic. See Lethic acid.
Acid, malic. See Malic acid.
Acid, maganesic. See Mangangsic acid.
Acid, maganesic. See Mangangsic acid. Acid, iodic. Acid, malic. See Malic acid.
Acid, manganesic. See Manganesic acid.
Acid, margaritic. See Margaritic acid.
Acid, meconic. See Meconic acid.
Acid, mellitic. See Mellitic acid.
Acid, menispermic. See Menispermic acid.
Acid of milk. See Macic acid.
Acid, mineral. Those acids which are found to exist in minerals, as the sulphuric, the nitric, &c. See Acid. Acid, molybdic. See Molybdic acid. Acid, molybdous. See Molybdous acid. Acid, moroxylic. See Moroxylic acid. Acid, moroxylic. See Moroxylic acid.
Acid, mucic. See Mucic acid.
Acid, mucous. See Mucic acid.
Acid, muriatic. See Muriatic acid.
Acid, muriatic, dephlogisticated.
Acid, nanceic. See Nanceic acid.
Acid, nanceic. See Nanceic acid.
Acid, nitro. See Nitric acid.
Acid, nitro-leucic. See Nitro-leucic acid.
Acid, nitro-muriatic. See Nitro-leucic acid.
Acid, nitro-saccharine. See Nitro-succharic acid.
Acid, nitro sufphuric. See Nitro-sulphuric acid.
Acid, nitrous. See Nitro-sulphuric acid.
Acid, nitrous. See Nitro-sulphuric acid.
Acid, dicto. See Olica acid. Acia, Unolkionte. See Enolkionic ac Acid, ozalie. See Oleic acid. Acid, ozalie. See Ozalic acid. Acid, ozychloric. See Perchloric acid. Acid, ozychloric. See Perchloric acid. Acid, ozychloric. See Chlorine. Acid, ozychloric. See Perchloric acid. Acid, perfect. An acid is termed perfect in the chemical nomenclature, when it is completely saturated

The names are ended in Latin by icum,

and in English by ic : e. g. acidum nitricum, or nitric

with oxygen.

oid.
Acid, sulphuric. See Sulphuric acid.
Acid of tartar. See Tartaric acid.
Acid of tartaric See Tartaric acid.
Acid, tarturic. See Talturic acid.
Acid, turgstic. See Telluric acid.
Acid, turgstic. See Tungsta acid.
Acid, urc. See Lithic acid.
Acid, orgetable. Those which are found in the Acid, vegetable. Those which are found in the vegetable kingdom, as the citric, malic, acetic, &c. ne Acut of rinegor. See Acetum.
Acut of rinegor, concentrated. See Acetum.
Acid of vitroil. See Sulphuric acid.
Acid, vitriolic. See Sulphuric acid.
Acid, vitriolic. See Sulphuric acid.
Acid, zumic. See Zumic acid.
ACIDIFIABLE. Capable of being converted into an ACIDIFIABLE. Capable of being converted into an acid by an acidity ing principle. Substances possessing this property are called radicals and acidifiable bases. ACIDIFIC ATION. (.l.cidificatio: from acidum, an acid.) The formation of an acid; also the impregnation of any thing with acid properties. ACIDIFYING. See Acid.
ACIDIMETRY. The measurement of the strength of acids. This is effected by saturating a given weight of them with an alkaline base; the quantity of which requisite for the purpose, is the measure of their power. power.

ACIDITY. Aciditas. Sourness.

ACIDULOUS. Acidula, Latin; acidula, French.
Slignity acid: applied to those salts in which the base is combined with such an excess of acid, that they manifestly exhibit acid properties, as the supertartrate and the supersulphate of potassa.

Acidulous valers. Mineral waters, which contain so great a quantity of carbonic acid gas, as to render them acidulous, or gently tart to the taste. See Mine ral water ACIDULUS. Acidulated. Any thing blended with an acid juice in order to give it a coolness and brisk A'CIDUM. (Acidum, i. n.; from acco, to be sour.)
An acid. See Acid. ACIDUM ACETICUM. See Acidum aceticum dilutum, ACIDUM ACETICUM DILUTUM. Dilute acetic acid. ACIDUM ACRITICUM DILUTUM. Dilute acetic acid. Take of vinegar, a gallon.
Distil the acetic acid in a sand bath, from a glass retort into a receiver also of glass, and kept cold; throw away the inst pint, and keep for use the six succeeding pints, which are distilled over.

In this distillation, the liquor should be kept moderately boiling, and the heat should not be urged too far, otherwise the distilled acid will have an empyreurist and task which if ought not to possess. far, otherwise the distilled acid will have an empyreumatic smell and taste, which it ought not to possess. If the acid be prepared correctly, it will be colourless, and of a grateful, pungent, peculiar acid taste. One fluid ounce ought to dissolve at least ten grains of carbonate of lime, or white marble. This liquor is the acctum distillatum; the acidum acctosum of the Longary.

don Pharmacopæia of 1787, and the acidum accticum' cools, precipitates 19-20ths of what it had dissolved. of that of 1822, and the geidum accitionn dilutum of the present. The compounds of the acid of vinegar, directed to be used by the new London Pharmacopeia, are acetum colchici, acetum scilla, ceratum plumbi acetatis, liquor ammonia acetatis, liquor plumbi acetatis, liquor plumbi acetatis dilutis, orymel, oxymel scille, potasse acetas, and the cataplasma

ACIDUM ACETICUM CONCENTRATUM. acid of vinegar is greatly concentrated, that is, de-prived of its water, it is called concentrated acid of

vinegar, and radical vinegar.

Distilled vinegar may be concentrated by freezing; the congelation takes place at a temperature below 28 the congelation takes place at a temperature below we degrees, more or less, according to its strength; and the congealed part is merely ice, leaving, of course, a stronger acid. If this be exposed to a very intense cold, it shoots into crystals; which being separated, liquefy, when the temperature rises and the liquor is limpid as water, extremely strong, and has a highly pungent acetous odour. This is the pure acid of the whitevar, the foreign matter remaining in the unconvinegar; the foreign matter remaining in the uncongealed liquid.

Other methods are likewise employed to obtain the pure and concentrated acid. The process of Westen-dorf, which has been often followed, is to saturate soda dorf, which has been often followed, is to saturate soda with distilled vinegar; obtain the acetate by crystalization; and pour upon it, in a retort, half its weight of sulphuric acid. By applying heat, the acetic acid is distilled over; and, should there be any reason to suspect the presence of any sulphuric acid, it may be distilled a second time, from a little acetate of soda. According to Lowitz, the best way of obtaining this acid pure, is to mix three parts of the acetate of soda with eight of supersulphate of potassa; both salts being perfectly dry, and in fine nowder, and to distill from

with eight of supersulphate of potassa; both salts being perfectly dry, and in fine powder, and to distill from this mixture in a retort, with a gentle heat.

It may also be obtained by distilling the verdigris of commerce, with a gentle heat. The concentrated acid procured by these processes, was supposed to differ materially from the acetous acids obtained by distilling the procured by the concentrated acid procured by these processes, was supposed to differ materially from the acetous acids obtained by distilling the procure of the procu inaterially from the acetous acids obtained by distilling vinegar; the two acids were regarded as differing in their degree of oxygenizement, and were afterward distinguished by the names of acetous and acetie acids. The acid distilled from verdigris was supposed to derive a quantity of oxygen from the oxyde of copper, from which it was expelled. The experiments of Adet have, however, proved the two acids to be identical; the acetous acid, therefore, only differs from the acetic acid in containing more water, rendering it a weaker acid, and of a less active nature. There exists, therefore, only one of acid vinegar, which is the acetic; its compounds are termed acetates. is the acetic; its compounds are termed acetates.

ACIDUM ACETOSUM. See Acctum.
ACIDUM ÆTHEREUM. See Sulphuric acid.

ACIDUM ALUMINOSUM. (So called because it exists in alum.) See Sulphuric acid.

in alum.) See Sulphuric acid.

ACIDUM RESNICUM. See Arsenic.

ACIDUM BENZOICUM. Benzoic acid. The London Pharmacopeia directs it to be made thus:—Take of gum benzoin a pound and a half: fresh lime, four ounces: water, a gallon and a half: muriatic acid, four fluid ounces. Rub together the benzoin and lime; then boil them in a gallon of the water, for half an hour, constantly stirring: and, when it is cold, pour off the then boil them in a gallon of the water, for half an hour, constantly stirring; and, when it is cold, pour off the liquor. Boil what remains a second time, in four pints of water, and pour off the liquor as before. Mix the liquors, and boil down to half, then strain through paper, and add the muriatic acid gradually, until it ceases to produce a precipitate. Lastly, having poured off the liquor, dry the powder in a gentle heat; put it into a proper vessel, placed in a eand bath; and by a very gentle fire, sublime the benzoic acid. In this process a solution of benzoate of lime is first obtained; the muriatic acid then, abstracting the lime, precipitates the benzoic acid, which is crystallized by sublimation.

The Edinburgh Pharmacopœia forms a benzoate of soda, precipitates the acid by sulphuric acid, and afterward crystallizes it by solution in hot water, which dissolves a larger quantity than cold.

Benzoic said-has a strong pungent, aromatic, and peculiar odour. Its crystals are ductile, not pulverizable; it sublines in a moderate heat, forming a white irritating smoke. It is soluble in about twenty-four times its weight of boiling water, which as it

It is soluble in alcohol.

Benzoic acid is very seldom used in the cure of diseases; but now and then it is ordered as a stimulant against convulsive coughs and difficulty of breathing.

The dose is from one grain to five. ne dose is from one graint to live.

Actidum Boraciccum. See Boracic acid.

ACIDUM CARBONICUM. See Carbonic acid.

ACIDUM CATHOLICON. See Sulphuric acid.

ACIDUM CITRICUM. See Citric acid.

ACIDUM MURIATICUM. See Muriatic acid. ACIDUM MURIATICUM OXYGENATUM. See Oxygenized muriatic acid.

ACIDUM NITRICUM. See Nitric acid.
ACIDUM NITRICUM DILUTUM. Take of nitric acid a fluid ounce; distilled water nine fluid ounces. Mix them.

uidounce; distilled water nine fluidounces. Mix u Actdum nttrogum. See Nitrous acid. Actdum phosphoricum. See Phosphoric acid Actdum primidenium. See Subpharic acid. Actdum succinicum. See Succinic acid. Actdum sulphuricum. See Sulphurcous acid. Actdum sulphuricum. See Sulphurcous acid.

ACIDUM SULPHURICUM DILUTUM. Acidum vitrio-licum dilutum. Spiritus vitrioli tenuis. Take of sulphuric acid a fluid ounce and a half; distilled water, fourteen fluid ounces and a half. Add the

water gradually to the acid.

alet graddaily to the acid.

Acidum tartaricum. See Tartaric acid.

Acidum vitriolicum. See Sulphuric acid.

Acidum vitriolicum dilutum. See Acidum sulphuricum dilutum.

ACINACIFORMIS. (From acinaces, a Persian ACINACIFORMIS. (From acinaces, a Persian scimitar, or sabre, and forma, resemblance.) Acinaciform; shaped like a sabre, applied to leaves: as those of the mysembryanthenum acinaciforme.
ACINE'SIA. (From ακινησια, immobility.) A loss of motion and strength.
ACINIFORMIS. (From acinus, a grape, and

of motion and strength.

ACINIFORMIS. (From acinus, a grape, and forma, a resemblance.) Aciniform. A name given by the ancients to some parts which resembled the colour and form of an unripe grape, as the uvea of the eye, which was called tunica acinosa, and the choroid membrane of the eye, which they named tunica

A'CINUS. (Acinus, i. m.; a grape.) 1. In anatomy, those glands which grow together in clusters are called by some acini glandulosi.
2. In botany, a small berry, which, with several others, composes the fruit of the mulberry, blackberry, &cc.

Detry, e.c. ACINUS BILIOSUS. The small glandiform bodies of the liver, which separate the bile from the blood, were formerly called acini biliosi: they are now, however, termed penicilli. See Liver. ACMA'STICOS. A species of fever, wherein the heat continues of the same tenor to the end. Actuarius.

heat continues of the same tenor to the end. Actuarius. A 'CME. (From a<sub>KPI</sub>, a point.) The height or crisis. A term applied by physicians to that period or state of a disease in which it is at its height. The ancients distinguished diseases into four stages: 1. The Arche, the beginning or first attack. 2. Anabasis, the growth. 3. Acme, the height. 4. Paracme, or the decline of the

disease.

ACNE: ακνη. Acna. A small phople, or hard tubercle on the face. Foesius says, that it is a small pustule or pimple, which arises usually about the time that the body is in full vigour.

ACNE 'STIS. (From a, priv. and κναω, to scratch.) That part of the spine of the back, which reaches from the metaphrenon, which is the part between the shoulder-blades, to the loins. This part seems to have been originally called so in quadrupeds only, because they cannot reach it to scratch.

ACOE. ακορ. The sense of hearing.

A COE. axon. The sense of hearing.
ACOE LIUS. (From a, priv. and κοιλια, the belly.)
Without belly. It is applied to the who are so
wasted, as to appear as if they had no belly. Galen.
ACOE TUS. A κοιτος. An epithet for honey, men
tioned by Pliny; because it has no sediment, which is

ACO NION. Aroptov. A particular form of medicine among the ancient physicians, made of powders levigated, and probably like collyria for the disorders

ACONITA. (Aconita, e, f.; from aconitum, the

name of a plant.) A poisonous vegetable principle, probably alcaline, recently extracted from the aconitum napellus, or wolf's bane, by Mons. Brandes. details have not yet reached this country.

ACONITE. See Acontum.

ACONI'TUM. (Aconitum, i. m.) Aconite. 1. genus of plants in the Linuxan system, all the species of which have powerful effects on the human body. Class, Polyandria; Order, Trygymia.

2. The pharmacopeial name of the common, or blue, well's-bane. See Aconitum napellus.

Acontrum anthona. The root of this plant Aconi-

tum—storibus pentagynus, foliorum luciniis linearibus of Linnæus, is employed medicinally. Its virtues are

similar to those of the aconitum napellus.

ACONITUM NAPELLUS. Monk's hood. Wolf's bane. Camorum. Canicida. Cynoctanum. Actonitum; -foliorum laciniis linearibus, superne latioribus, linea exaratis of Linnaus. This plant is cultivated in our gardens as an ornament, but is spontaneously produced in Germany, and some other northern parts of Europe. Every part is strongly poisonous, but the root is unquestionably the most powerful; and, when first chewed, imparts a slight sensation of acrimony; but afterward, an insensibility or stupor at the apex of the tongue, and a pungent heat of the lips, gums, palate, and fauces are perceived, followed with a general tremor and sensation of chilli-The juice applied to a wound seemed to affect ness the whole nervous system; even by keeping it long in the hand, or on the bosom, we are told unpleasant symptoms have been produced. The fatal symptoms brought on by this poison are, convulsions, giddiness, brought on by this poison are, convuisions, glouness, busanity, violent purgings, both upwards and downwards, faintings, cold sweats, and death itself. Dr. Stoerk appears to be the first who gave the wolf's-bane internally, as a medicine; and since his experiments were published, 1762, it has been generally and successfully employed in Germany and the northern parts. of Europe, particularly as a remedy for obstinate rheumatisms; and many cases are related where this disease was of several years' duration, and had withstood the efficacy of other powerful medicines, as merstood the emeacy of other powerful meatines, as mer-cury, opium, antimony, hemlock, &c. yet, in a short time, was entirely cured by the aconitum. Instances are also given us of its good effects in gout, scrofulous swellings, venereal nodes, amaurosis, intermittent fevers, paralysis, ulceration, and scirrhus. This plant has been generally prepared as an extract or inspissated juice, after the manner directed in the Pharma-copela: its efficacy is much diminished on being long kept. Like all virulent medicines, it should first be administered in small doses. Stoerk recommends two grains of the extract to be rubbed into a powder, with two drachms of sugar, and to begin with ten grains of this powder, two or three times a day. We find, however, that the extract is oftener given from one grain to ten for a dose; and Stoll, Scherekbecker, others, increased this quantity considerably. Instead of the extract, a tincture has been made of the dried leaves macerated in six times their weight of spirits of wine, and forty drops given for a dose. Some writers say that the napellus is not poisonous in Sweden, Poland, &c.; but it should be noted that the species which is not poisonous, is the aconitum lycoctonum of Acopa. Dioscorides's name for the buck-bean or

Menyanthes trifoliata of Linnxus A'COPON. (From a, priv. an

Menyauther triplinate of Linneus.

A COPON. (From a, priv. and κοπος, weatiness.)
It signifies originally whatever is a remedy against weariness, and is used in this sense by Hippocrates. Aph. viii. iib. ii. But in time, the word was applied to certain ointments. According to Galen and Paulus Ægimeta, the Acopa pharmaca are remedies for indispositions of body which are caused by long or veherment motion.

ment motion.

Acopos. The name of a plant in Pliny, supposed to be the buck-bean or Menyanthes trifoliata of

ACOR. (Acor, oris, m.; from acco to be sour.)
Acidity. It is sometimes used to express that sourness in the stomach contracted by indigestion, and
from whence flatulencies and acid belching arise. (Acor, oris, m.; from aceo to be sour.)

ACOR DINA. Indian tutty. ACO'RIA. (From α, priv. and κορεω, to satiate.) ACO'RIA. (From α, priv. and κορεω, to satiate.)
Insatiability. In Hippocrates, it means good appetite

ACORN. See Quercus robur.

A'CORUS. (Acorus, i. m.; akocov, from kopn, the pupil; because it was esteemed good for the disorders of the eyes.) The name of a genus of plants in the Linnean system. Class, Hexardiria. Order, Digymia. Acorus calamus. The systematic name of the

plant which is also called Calamus aromaticus; Acorus verus ; Calamus odoratus ; Calamus vulgaris ; Diringa ; Jacerantatinga ; Typha aromatica ; Clava rus ocras; Jaccrontatinga; Typha aromatica; Clara rugosa. Sweet-flag, or acorus. Acorus; Scapi mu-crone longissimo foliacco of Linneus. The root has been long employed medicinally. It has a moderately strong aromatic smell; a warm, pungent, bitterish taste; and is deemed useful as a warm stomachic. Powdered, and mixed with some absorbent, it forms a useful and pleasant dentifrice.

Acorus Palustris. See Iris palustris. Acorus verus. See Acorus calamus. ACORUS VULGARIS. See Iris pulustris.

A'COS. (Akos, from aksonat, to heal.) . A remedy

ACO'SMIA. (From α, neg. and κοσμος, beautiful.) Baldness; ill-health: irregularity, particularly of the critical days of fevers.

Aco's re. (From ακος τη, barley.) An ancient food made of barley.

ACOTYLE DON. (Acotyledon, onis, n. from a priv. and κοτυληφου. Without a cotyledon; supplied in botany to a seed or plant which is not furnished with a cotyledon; Semen acotyledon.) All the mosses are plantæ acotyledones.

(.deousticus: from ακουω, to hear.)

Belonging to the ear or to sound.

2. That which is employed with a view to restore the sense of hearing, when wanting or diminished. No remedies of this kind, given internally, are known to produce any uniform effect.

to produce any uniform effect.

Acoustic nerve. See Portio mollis.

Acoustic duct. See Medias auditorius.

Acras' Falos. See Accaipado.

Acras' Falos. (Ακραπαλος. From α, neg. and κρασλη, surfeit.) Remedies for the effects of a debauch

Acras' Falos. (From α, and κεριω, to mix.) Un-Acra'sia. (From a, as healthmess; intemperance.

ACRATI'A. (From a, and κρατος, strength.) Weak-

ness or intemperance.

ACRATISMA. (From assarov, unmixed wine. The derivation of this word is the same as Acrasia, because the wine used on the occasion was not mixed with water.) A breakfast among the old Greeks consisting of a morsel of bread, soaked in pure un-A breakfast among the old Greeks, mixed wine.

ACRATO'MELI. (From ακρατον, pure wine; and μελι, honey.) Wine mixed with honey.

A'CRE. (From ακρος, extreme.) The extremity

A CREA. (From aκρος, extreme.) The extremity of the noise or any other part.

A'CREA. (From ακρος, extreme.) Aeroteria. The extremities; the legs, arms, nose, and ears.

ACRIBEI. A. (From ακρος, extreme.) An exact and accurate description and diagnosis, or distinction,

ACRID. Acris. A term employed in medicine to express a taste, the characteristic of which is pungency joined with heat.

ACRIMONY. (Acrimonia, from acris, acrid.) quality in substances by which they irritate, corrode, or dissolve others. It has been supposed until very lately, there were acid and alkaline acrimonies in the blood, which produced certain diseases; and although the humoral pathology is nearly and improperly ex-ploded, the term venereal acrimony, and some others, are still and must be retained.

are still and must be retained.

A'CRIS. 1. Acrid. See Acrid.

ACRIS. 1. Acrid. See Acrid.

ACRISIA. (From a, priv. and κρινω, to judge or separate.) A turbulent state of a disease, which will scarcely suffer any judgment to be formed thereof.

A'CRITUS. (From a, neg. and κρινω, to judge.) A disease without a regular crisis, the event of which it

is hazardous to judge.

ACROBY STIA. (From ακοος, extreme, and βυω, to cover.) The prepuce which covers the extremity of the penis.

ACROCHEIRE'SIS. (From axoos, extreme, and Acroch aland.) An exercise among the ancients. Prohably a species of wrestling, where they only held by the hands.

ACROCHEI'RIS. (From akpos, extreme, and xetp, a hand.) Gorræus says, it signifies the arm from the elbow to the ends of the fingers; xetp signifying the arm, from the scapula to the fingers end.

ACROCHO'RDON. (From akpos, extreme, and xpobn, a string.) Galen describes it as a round excrescence on the skin, with a slender buse; and that it hath its name because of its situation on the surface of the skin. The Greeks call that excrescence an achrochordon, where something hard concretes under the skin, which is rather rough, of the same colour as the skin, which is rather rough, of the same colour as the skin, slender at the base and broader above. Their size rarely exceeds that of a bean.

ACROCO'LIA. (From  $\alpha\kappa\rho\sigma_0$ , extreme, and  $\kappa\omega\lambda\sigma_0$ , a limb.) These are the extremities of animals which are used in food, as the feet of calves, swine, sheep, oxen, or lambs, and of the broths of which jellies are frequently made. Castellus from Budæus adds, that the internal parts of animals are also called by this

name.

ACHROLE'NION. Castellus says it is the same as

Olderanon.

ACROMA'NIA. (From ακρους, extreme, and μανια, madness.) Total or incurable madness.

ACRO'MION. (From ακρους extremity, and ωμος, the shoulder.) A process of the scapula or shoulder blade. See Scapula.

ACROMPHA LIUM. (Ακρομφαλον; from ακρος, extreme, and ομφαλος, the navel.) Acromphaton. The

tip of the navel

tip of the navel.

ACRO'NHALON. See Accomptalium.

ACRO'NIA. (From accov, the extremity.) The amputation of an extremity, as a finger.

ACRO'PATHOS. (From accop, extreme, and zeros, a disease.) Acropathus. It signifies literally a disease at the top or superior part. Hippocrates in his treatise be Superfectatione, applies it to the internal orifice of the uterus; and in Prædict. lib. ii. to cancers which acceptance of the well-see of the backy.

which appear on the surface of the body. ACRO PATHUS. See Acropathos. A'CROPIS. (From  $\alpha po_V$ , the extremity, and  $o\psi$ , the voice.) Imperfect articulation, from a fault in the

tongue.

ACROPO'STHIA. (From  $\alpha\kappa\rho\sigma_5$ , extreme, and  $\alpha\sigma\sigma\theta\eta_s$ , the prepuce.) The extremity of the prepuce; or that part which is cut off in circumcision.

ACRO'PSILON. (From  $\alpha\kappa\rho\sigma_5$ , extreme, and  $\psi_t\lambda\sigma_5$ , naked.) The extremity of the denuded glans penis.

ACRO'SPELOS. (From  $\alpha\kappa\rho\sigma_5$ , extreme, and  $\pi\kappa\lambda\sigma_5$ , black, so called because its ears, or tops, are often of a blackish colour.) Acrospelus. The bromus discordis, or wild out ergass.

or wild out grass.

ACRO'SPELUS. See Acrospelos.

ACROTERIA. (From axpos, extreme.) The extreme parts of the body; as the hands, feet, nose, ears, chin, &c.

chin, &c.
ACROTERIA'SMUS. (From ακρος, summus.) The amputation of an extremity.

The amputation of an extremity.

ACROTHY MILA. See Acrothymion.

ACROTHY MICH. (From axpos, extreme, and Supos, thyme.) Acrothymia. Acrothymiam. As out of war, described by Celsus, as hard, rough, with a narrow basis, and broad top; the top of the colour of thyme; it easily splits and bleeds.

ACROTHCUS. (From axpos, summus; whence exports, trouble summus; cacumen.) A disease affecting the external surface.

ACROTICUS.

ACROTICA. The name of an order in Good's No-

ACROTISMUS. Acretismus; (From a. priv. and ACROTISMUS. Acrotismus; (From a. priv. and coporos, pulsus, defect of pulse.) Acrotism or pulse-lessness. A term synonymous with asphyxia, and applied to a species of entasta in Good's Nosology.

ACTAFA. (From ayo, to break.) Acte. The elder-tree, so called from its being easily broken. See

Sambucus nigra.
A'CTINE. The herb Bunias, or Napus.

ACTINOBOLI'SMUS. (From arrw, a ray, and  $\beta a \lambda_{low}$ , to cast out.) Diradiatio. Irradiation. It is applied to the spirits, conveying the inclinations of the mind to the body

ACTINOLITE. The name of a mineral which is

ACTINOLITE. The name of a limit of a found in primitive districts.

["This mineral possesses all the essential characters of hornblende. In fact, common hornblende and action of hornblende and action of the common hornblende and action of the com tynolite, separated only by slight differences, when viewed in the extremes, do in other cases insensibly pass into each other. The actynolite has usually a greater transparency, a more lively green colour, arising from the chrome which it contains, and differs also in the result of fusion by the blow-pipe

also in the result of Iusion by the blow-pipe.

"The-acynotic occurs in prismatic crystals which are commonly long and incomplete, sometimes extremely minute and even fibrous, and variously aggregated into masses more or less large. Its prevailing colour is green, sometimes pure emerald green, but varying from a dark or leek green to a paid green, which is sometimes shaded with gray, yellow, or brown. Its colours are liable to change in consegreen, which is sometimes shaded with gray, yellow, or brown. Its colours are liable to change in consequence of decomposition. It scratches grass, but its prisms are often very brittle in a transverse direction. Its cross fracture is often a little chonchoidal, and more shining than that of common hornblende. Its specific gravity is about 3.30.

"It melts by the blow-pipe into a gray or yellowishgray ename. It contains, according to Langier, of

| enamer.    | 20 | EU | 244 | ca i | us, | . 6 | MUL | 701 | <br>щ | , ,, | æ | LICA | AA) | SACI, U |
|------------|----|----|-----|------|-----|-----|-----|-----|-------|------|---|------|-----|---------|
| Silex      |    |    |     |      |     |     |     |     | <br>  |      |   |      |     | 50.00   |
| Magnesia   |    |    |     |      |     |     |     |     | <br>  |      |   |      |     | 19.25   |
| Lime       |    |    |     |      |     |     |     |     |       |      |   |      | ۰   | 9.75    |
| Alumine    |    |    |     |      |     |     |     |     |       |      |   |      |     |         |
| Oxide of i |    |    |     |      |     |     |     |     |       |      |   |      |     |         |
| Oxide of   |    |    |     |      |     |     |     |     |       |      |   |      |     |         |
|            |    | ×  |     |      |     |     |     |     |       |      |   |      |     |         |
|            |    |    |     |      |     |     |     |     |       |      |   |      |     |         |

Its green colour is derived from the chrome, often modified by the large quantity of Iron which is present. It presents the following varieties, which pass into each other: 1. common actynolite 2. glassy;

pass into each other. It common to the control of t

magnesia. Its more distinct crystal occur in aquartz, and limestone.

"It is found in various parts of the United States. In Maryland, near Baltimore, all its varieties occur in granite or gneiss. In Pennsylvania, at Concord in Chester county, in large masses of an emerald-green colour. In Connecticut, near New-Haven, in serpencolour. tine; its structure generally radiated. In Maine, at Brunswick, all its varieties occur, sometimes in granite

Brunswick, all its varieties occur, sometimes in granite and gneiss, but more frequently in limestone."—
Cleaveland's Mineralogy. A.]
ACTION. (Actio, mis. f.; from ago, to act.) 1.
The operation or exertion of an active power.
2. Any faculty, power, or function. The actions or functions of the body are usually divided by physiologists into vital, natural, or animal. 1. The vital functions, or actions, are those which are absolutely necessary to life, and without which animals cannot exist; as the action of the heart, lungs, and arteries.
2. The natural functions are those which are instrumental in repairing the several losses which the hody mental in repairing the several losses which the body

mental in repairing the several losses which the body sustains: digestion, and the formation of chyle, &c. fall under this head. 3. The animal actions are those which we perform at will, as muscular motion, and all the voluntary motions of the body.

Independently of these properties, each part may be said to have an action peculiar to itself—for instance, the liver, by virtue of a power which is peculiar to it, forms continually a liquid which is called bile; the same thing takes place in the kidneys with regards other. same thing takes place in the kidneys with regard to the urine. The voluntary muscles, in certain states, become hard, change their form, and contract. These are, however, referrible to vitality. It is upon these the attention of the physiologist ought to be particularly fixed. Vital action depends evidently upon nutrition, and, reciprocally, nutrition is influenced by vital action.—Thus, an organ that censes to nourish, loses at the same time its faculty of acting; consequently the organs, the action of which is oftenest repeated, possess a more active nutrition; and, on the contrary, those that act least, possess a much slower same thing takes place in the kidneys with regard to the contrary, those that act least, possess a much slower nutritive motion.

The mechanism of vital action is unknown.

The mechanism of vital action is unknown. There passes into the organ that acts an insensible molecular motion, which is as little susceptible of description as the nutritive motion. Every vital action, however simple, is the same in this respect.

ACTUAL. This word is applied to any thing endued with a property or virtue which acts by an immediate power inherent in it: it is the reverse of potential: thus, a red-hot iron or fire is called an actual

cautery, in contradistinction from caustics, which are | into the right ventricle of the heart, in cases of called potential cauteries. Boiling water is actually hot; brandy, producing heat in the body, is potentially hot, though of itself cold

Actual cautery. Substance. See Ac The red-hot iron, or any red-hot

abstance. See Actual.

ACTUA RIUS. This word was originally a title of ACTUA RIUS. This word was originally a title or dignity given to physicians at the court of Constantinople; but became afterward the proper name of a celebrated Greek physician, John, (the son of Zachary, a Christian writer,) who flourished there about the 12th or 13th century. He is said to be the first Greek author who has treated of mild cathartics, as manna, author who has treated of mild cathartics, as manna, cassia, &c., though they were long before in use among the Arabians. He appears also to have first noticed distilled waters. His works, however, are chiefly compiled from his predecessors.

ACPUATION. (From ago, to act.) That change wrought on a medicine, or any thing taken into the body, by the vital heat, which is necessary, in order to make it act and have its effect.

Make it act and nave its elect.

ACUITAS. Actimony.

Acuito. (From acue, to sharpen.) The sharpening an acid medicine by an addition of something more acid; or, in general, the increasing the force of any medicine, by an addition of something that hath the same sort of operation in a greater degree.

ACULEA'TUS. (From aculeus, a prickle.) Prickly;

covered with sharp-pointed bodies; applied to stems covered with sharp-pointed bodies, the prickles of which

separate with the epidermis, as in Rosa centriolia.

ACU'LEUS. (From acus, a needle; from ἀκη, or ἄκτς; cuspis, a point.) A prickle or sharp point. A species of armature with which the stems, branches, and other parts of several plants are furnished; as in the rose, raspherry, gooseherry. The part on which it grows is said to be acuteated, thus:—

Caulis aculeatus; as in the Rosa canina. Folia aculeata; as in Solanum marginatum. Total acuteatus; as in Solanum marginatum. Calix acuteatus; as in Solanum acuteatum. Stipula acuteata; as in Rosa cinnamonnia. Legumen acuteatum; as in Scorpiurus muricata. From the direction it has:—

Aculeus rectus, not curved; as in Rhamnus spina christi, and Rosa eglanteria. Aculeus incurvus, curved inward; as in Mimosa

Aculeus recurvus, curved downward; as in Rubus fruticosus, and Rosa rubiginosa. From the number in one place:-

Aculeus solitarius ; as in Rosa canina.

Aculeus bifidus, or geminatus, in pairs; there being two joined at the basis; as in Rhamnus spina christi. Aculeus trifidus, three in one; as in Barbaris vul-

A'CULON. (From a, neg. and κυλοω, to roll round;) so called because its fruit is not involved in a cup, or

sheath, like others.

Aculos. The fruit or acorn of the ilex.

A'CULOS. See Aculon.

Acutos. The frittor action of the next.

A'CULOS. See Aculon.

ACU'MEN. 1. A point.

2. The extremity of a bone.

ACUMINATUS. (From acuo, to point.) Acuminate; or terminated by a point somewhat elongated. Applied by botanists to several parts of plants.

Applied by botanists to several parts of plants. An acuminate leaf is seen in the Syringa oulgaris. Acuminate leaf-stalk; as that of Sazifraga stellaris.

ACUPUNCTU'RA. (From acus, a needle, and punctura, a prick.) Acupuncture. A bleeding performed by making many small punctures. [The operation of making small punctures in certain parts of the body with a needle, for the purpose of relieving diseases, is practised in Siam, Japan, and other oriental countries, for the cure of headaches, lethargies, convulsions, colles, &c. The practice of acupuncture is not followed in England nor America. In a modern French work it has been highly commended; but, the author sets so rash an example, and an a modern reach work it has been highly com-mended; but, the author sets so rash an example, and is so wild in his expectations of what may be done by the thrust of a needle, that the tenor of his observa-tions will not meet with many approvers. For instance, in one case, he ventured to pierce the epigastric region so deeply, that the coats of the stomach were supposed to have been nerforated. This was done for the cree to have been perforated: this was done for the cure of an obstinate cough, and is alleged to have effected a cure. But if this be not enough to excite wonder, I am sure the author's suggestion to run a long needle asphyxia, must create that sensation. - See Cooper's Surg. Diet. A.

A'curon. (From a, neg. and κυρω, to happen.) A name of the Alisma, because it produces no effect if

taken internally.
ACUSPASTO'RIS

ACUSPASTO'RIS. A name of the Scandiz anthriscus, the shephend's needle, or Venus's comb. ACUTANGULARIS. Acutangulatus. Acutangula: applied to parts of plants, as cautis acutangula.

ACUTE. Sharply. Applied in natural history to express form; as folium acut dentatum; acuté enarginatus, which means sharply dentate, and with sharp

divisions.

ACUTENA'CULUM. (From acus, a needle, and tenaculum, a handle.) The handle for a needle, to make it penetrate easy when stitching a wound. Heister calls the portaiguille by this name.

ACUTUS. Sharp. 1. Used by naturalists to designate form; thus acute-leaved; as in rumex acutus,

2. In pathology, it is applied to a sharp pungent pain; and to a disease which is attended with violent symptoms, terminates in a few days, and is attended with danger. It is opposed to a chronic disease. which is slow in its progress, and not so generally

dangerous.
ACY ISIS. (From a, neg. and κυω, to conceive.)

A defect of conception, or barrenness in women.

A'cyrus. (From a, priv. and xupos, authority; so named from its little note in medicine.) The German

named from its little note in medicine.) The German leopard's-bane. See Arnica montana.

ADÆMO'NIA.' (From a, priv. and δαιμων, a genius of fortune.) See Adamonia.

ADÆMO'S APPLE. See Pomum Adami.

ADAM'S NEEDLE. The roots of this plant, Yncca gloriosa of Linnæus, are thick and tuberous, and are used by the Indians instead of bread; being first reduced into a coarse meal. This, however, is only in times of feareily. times of scarcity

ADAMAN'TINE SPAR. A stone remarkable for its extreme hardness, which comes from the peninsula of Hither India, and also from China.

[its colour is dark brown, and its internal lustre usually very strong. It comes from China, and almost always contains grains of magnetic oxide of iron. A specimen was found by chemists to contain,

Alumine ...... 86.50 Silex ...... Oxide of iron .....

The corundum appears to belong to primitive rocks, and particularly to granite, into the composition of which it sometimes enters; hence scales of mica and particles of feldspar sometimes adhere to its surface. In the United States, it is by some supposed to exist in Maryland, near Baltimore; and in Connecticut, at Haddam, in the same granite, which contains chryso-

Haddam, in the same grantle, which contains enryso-beryl, &c. It may be employed, like emery, in polish-ing hard substances.—Cleav. Min. A.] A'DAMAS. (From a neg. and δαμαω, to conquer; as not being easily broken.) The adamant or diamond, the most precious of all stones, and which was for-merly supposed to possess extraordinary cordial virtues. ADAMI'TA, or Adamitum. A hard stone in the

[ADAMS, DR. SAMUEL, was the only son of Samuel Adams, late governor of Massachusetts. He was born at Boston, in October, 1751. His prepa-ratory education was at a Latin school in his native town. He entered Harvard University at the age of fourteen years, and was graduated in 1770. His professional education was acquired under the direction of Dr. Joseph Warren, and he practised in Boston. When hostilities commenced with Great Britain, in When hostilities commenced with Great Britain, in 1775, Dr. Adams, inbued with the patriotic spirit of his father, engaged as surgeon in the hospital department of the United States' army. Commencing his public services at Cambridge, by attending the soldiers who were wounded at Lexington and Bunker's Hill, he afterward removed to Danbury, and successively be serviced systems in a suggest of the states and continuous. to various stations in several of the states, and continued in the service during the revolutionary war; after which he returned to his native town with a broken constitution, and unable to recommence his

to do good to his fellow-men .- Thacher's Med. Bio-

graphy. A.] ADANSO NIA. (From Adanson who first described the Æthiopian sour gourd, a species of this

scribed the Adhiopian sour gourd, a species of this genus.) The name of a genus of plants. Class, Polyandria; Order, Monadelphia. Monkeys' bread. Adamsonia distrata. This is the only species of the genus yet discovered. It is called the Æthiopian sour gourd and monkeys' bread. Baobab. Bahobab. It grows mostly on the west coast of Africa, from the Niger to the kingdom of Benin. The bark is called lalo: the negroes dry it in the shade; then powder and keep it in little cotton bags; and put two or three pinches into their food. It is mucilaginous, and genepinches into mar 100d. It is michaginous, and gene-rally promotes perspiration. The michage obtained from this bark is a powerful remedy against the epi-demic fevers of the country that produces these trees; so is a decoction of the dried leaves. The fresh fruit

is as useful as the leaves, for the same purposes.

Ada'rees. (From a, neg. and δερκω, to see.) A saltish concretion found about the reeds and grass in marshy grounds in Galatia, and so called because it hides them. It is used to clear the skin with, in leprosies, tetters, &c. Dr. Plott gives an account of this production in his Natural History of Oxfordshire. It was formerly in repute for cleansing the skin from

Adarticulation. See Arthrodia.
ADDEPHA'GIA. (From αόην, abundantly, and φαγω, to eat.) Insatiability. A voracious appetite.

ADDER.

ADDER. See Coluber berus.

ADDITAME NTUM. (From addo, to add.) An addition to any part, which, though not always, is sometimes found. A term formerly employed as synonymous with epiphysis, but now only applied to two portions of sutures of the skull. See Lambdoidal and Squamous Sutures.

ADDITAMENTUM COLI. See Appendicula caci ver-

majormis.

ADDUCENS. (From ad, and duco, to draw.) The name of some parts which draw those together to which they are connected.

ADDUCENS OULL. See Rectus internus oculi.

ADDUCTOR. (From ad, and duco, to draw.) A drawer or contractor. A name given to several muscles, the office of which is to bring forwards or draw together, those parts of the body to which they are together those parts of the body to which they are annexed.

A muscle of the ADDUCTOR BREVIS FEMORIS. A muscle of the thigh, which, with the adductor longus and magnus femoris, forms the triceps adductor femoris. Adduc-tor femoris secundus of Douglas; Triceps secundus tor femoris securals of longuas, reps.

of Winslow. It is situated on the posterior part of the thigh, arising tendinous from the os pubis, near is joining with the opposite os pubis below, and behind the adductor longus femoris, and is inserted tendinous and fleshy, into the inner and upper part of the linea aspera, from a little below the trochanter minor, to the beginning of the insertion of the adductor longus moris. See Triceps adductor femoris.
ALDUCTOR FEMORIS PRIMUS. See Adductor longus

ADDUCTOR FEMORIS SECUNDUS. See Adductor brevis femoris.

ADDUCTOR FEMORIS TERTIUS. See Adductor magnus femoris.

ADDUCTOR FEMORIS QUARTUS. See Adductor mag-

mus femoris.

ADDUCTOR INDICIS PEDIS. An external interrosse ous muscle of the fore-toe, which arises tendinous and ous muscle of the fore-toe, which arises entunious and fleshy by two origins, from the root of the inside of the metatarsal bone of the fore-toe, from the outside of the root of the metatarsal bone of the great toe, and from the os cuseiforme internum. It is inserted, ten-dinous, into the inside of the root of the first point of the fore-toe. Its use is to pull the fore-toe inwards from the rest of the small toes.

A muscle situated ADDUCTOR LONGUS FEMORIS. on the posterior part of the thigh, which, with the adductor brevis, and magnus femories, forms the tri-ceps adductor femories. Adductor femoris primus of Douglas. Triceps minus of Winslow. It arises by a Douglas. Triceps minus of Winslow. It arises by a ADEPT. (From Adipiscor, to obtain.) 1. A skilful pretty strong roundish tendon, from the upper and alchymist. Such are called so as pretend to some

professional pursuits: he died on the 17th of January, interior part of the os pubis, and ligament of its syn 1788. He possessed a substantial mind, social feelings, chondrosis, on the inner side of the pectineus, and is and a generous heart; and his greatest pleasure was inserted along the middle part of the linea aspera.

See Triceps adductor femoris.
Adductor magnus femoris. A muscle which, ADDICTOR MAGNUS FRADRIS. A ministle which, with the adductor bengus femoris, forms the Triceps adductor femoris; Juductor femoris tertius et quartus of Douglas. Triceps magnus of Winsiow. It arises from the symphysis pubis, and all along the flat edge of the thyroid foramen, from whence it goes to be inserted into the linea aspera throughout its whole length. See Triceps adductor femoris.

linea aspera throughout its whole length. Deeps adductor femories.

ADDUCTOR MINIM DIGITI FEDIS. An internal intercosseous muscle of the foot. It arises, tendinous and fleshy, from the inside of the root of the metatarsal bone of the little toe. It is inserted, tendinous, into the inside of the root of the first joint of the little toe.

Its use is to pull the little toe inwards.

ADDUCTOR OCULI. See Rectus internus oculi.

ADDUCTOR POLILIES. See Rectus internus oculiADDUCTOR POLILIES. See Adductor politicis manûs.
ADDUCTOR POLILIES MANUS. A muscle of the
thumb, situated on the hand. Adductor politicis;
Adductor ad minimum digitum. It arises, feesby, from
almost the whole length of the metacarpal bone that
sustains the middle inger; from thence its fibres are
collected together. It is inserted, tendinous, into the
inner part of the root of the first bone of the thumb.
Its use is to pull the thumb towards the fingers. Its use is to pull the thumb towards the fingers

ADDUCTOR POLLICIS PEDIS. A muscle of the great toe, situated on the foot. Antithenar of Winslow. It arises, by a long, thin tendon, from the os caleis, from the os cuboides, from the os cuneiforme externum, and from the root of the metatarsal bone of the second toe. It is inserted into the external os sesamoideum, and root of the metatarsal bone of the great toe. Its use is

to bring this toe nearer to the rest

ADDUCTOR PROSTATE. A name given by Sanctorini to a muscle, which he also calls Levator prostate, and which Winslow calls Prostaticus superior. Albinus, from its office, had very properly called it

Compressor prostata.

ADDUCTOR TERTH DIGITI PEDIS. An external interosseous muscle of the foot, that arises, tendinous and fleshy, from the roots of the metatarsal bones of the third and little toe. It is inserted, tendinous, into the outside of the root of the first joint of the third toe Its use is to pull the third toe outward.

ADE LPHIA. ('Αδελφια, a relation.) Hippocrates calls diseases by this name that resemble each other. ADEMO NIA. (From a, priv. and daywov, a genius, or divinity, or fortune.) Ademonia. Hippocrates uses this word for uneasiness, restlessness, or anxiety

felt in acute diseases, and some hysteric fits.
A'DEN. (Aden, enis, m.; αδην, a gland.)
1. A gland. See Gland.
2. A bubo. See Bubo.

ADENDE NTES. An epithet applied to ulcers which eat and destroy the glands.

ADE NIFORMIS. (From aden, a gland, and forma, resemblance.) Adeniform. 1. Clandiform, or resembling a gland.

A term sometimes applied to the prostate gland. ADENO GRAPHY. (Adenographia; from αδην, a gland, and γραφω, to write.) A treatise on the

glands.

ADENOI DES. (From αδην, a gland, and ειδος, resemblance.) Glandiform: resembling a gland. An epithet applied also to the prostate gland.

ADENO LOGY. (Adenologia; from αδην, a gland, and λονος, a treatise.) The doctrine of the glands.

ADENOUS. (Adenosus, from αδην, a gland.)

ADEPHA'GIA. (From aδην, abundantly, and φαγω, to eat.) Insatiable apperite. See Bulimia.
A'DEPS. (Adeps, ipis, m. and f.) Fat. An olly secretion from the blood into the cells of the cellular membrane. See Fat.

Adeps anserinus. Goose-grease. Adeps PREPARATA. Prepared lar

ADEPS PRAPARATA. Prepared lard. Cut the lard into small pieces, melt it over a slow fire, and press it through a linen cloth.

ADEPS SUILLA. Hog's lard. This forms the basis of many ointments, and is used extensively for cult-

2. The professors of the Adepta Philosophia, that philosophy the end of which is the transmutation of metals, and a universal remedy, were also called

3. So Paracelsus calls that which treats of the diseases that are contracted by celestial operations, or communicated from heaven.

communicated from heaven.

ADFILATUS. A blast; a kind of erysipelas, or

St. Anthony's fire.

ADHÆSION. (Adhesio; from adhæro, to stick

to.) The growing together of parts.

ADHÆSIVE. (Adhæsious; from adhæro, to stick

to.) Having the property of sticking.

Adhabitve inflammation. That species of inflammation which terminates by an adhesion of the inflamed surfaces.

Inhamed Sutfaces.

Adhæstve Plaster. A plaster made of common lithage plaster and resin, is so called because it is used for its adhesive properties. See Emplastrum resinae.

Adharo'da. (A Zeylanic term, signifying expelling a dead fætus.) See Justicia adhatada.

Adiacht'Tos. (From a, neg, and διαχθω) to diffuse, scatter, or be profuse.) Decent in point of dress. Hipperstate this tribute according to the second second.

pocrates thinks the dress of a fop derogatory from the

pocrates timines the dress of a top derogatory from the physician, though thereby he hide his ignorance, and obtain the good opinion of his patients.

ADIA'NTHUM. (Adiantum, i. n. αδιαν/ον; from a, neg. and διανω, to grow wet: so called, because its leaves are not easily made wet.) The name of a genus of cleans in the Liverness. of plants in the Linnean system Class, Cryptoga-mia; Order, Fülces. Maiden-hair.

ADDANTHUM AUREUM The golden maiden-hair.

See Polytrichum.

CAPILLUS VENERIS. ADIANTHUM The leaves of this plant are somewhat sweet and austere to the palate, and possess mucilaginous qualities. A syrup, the syrop de capillaire is prepared from them, which is much esteemed in France against catarrhs. Orange-flower water, and a proportion of honey, it is said, are usually added. It acts chiefly as a demulcent, sheathing the inflamed sides of the glottis.

ADIANTHUM PEDATUM. Adianthum canadense. This plant is in common use in France for the same purposes as the common adianthum capillus veneris in this country, and appears to be far superior to it.
ADIAPHOROUS. Adiaphorus. A term y

ADIAPHOROUS. Adiaphorus. A term which implies the same with neutral; and is particularly used of some spirits and saits, which are neither of an acid nor alcaline nature.

acid nor alcaline nature.

ADIAPNEU'STIA. (From the privative particle a, and διαννεω, perspiro.) A diminution or obstruction of natural perspiration, and that in which the ancients chiefly placed the cause of fevers.

ADIARRHŒ'A. (From a, priv. and διαφρεω, to flow out or through.) A suppression of the necessary

evacuations from the bowels.

ADIPOCI'RE. (Adipocera, e. f.; from adeps, fat, and eera, wax.) A particular spermaceti or fat-like substance formed by the spontaneous conversion of animal matter, under certain conditions. This conversion has long been well known, and is said to have been mentioned in the works of Lord Bacon. "On the occasion of the removal of a very great number of human bodies from the ancient burying-place des Innocens at Paris, facts of this nature were observed in the most striking manner. Fourcroy may be called the scientific discoverer of this peculiar matter, as well as the saponaceous ammoniacal substance contained in bodies abandoned to spontaneous destruction in large masses. This chemist read a memoir on the subject in the year 1769 to the Royal Academy of Sciences, from which the general contents are here abstracted.

from which the general contents are here abstracted "At the time of clearing the before-mentioned burying-place, certain philosophers were specially charged to direct the precautions requisite for securing the heath of the workmen. A new and singular object of research presented itself, which had been necessarily unknown to preceding chemists. It was impossible to foretell what might be the contents of a soil overloaded for successive ages with bodies resigned to the putrefactive process. This spot differed from comthe putretactive process. This spot differed from common burying grounds, where each individual object is surrounded by a portion of the soil. It was the burying-ground of a large district, wherein successive generations of the inhabitants had been deposited for up-

extraordinary skill in chemistry; but these have too often proved enner enthusiasts or imposors.

2. The professors of the Adepta Parlosophia, that the entire decomposition might be retarded for more than forty years; neither was there any reason to suspect that any remarkable difference would arise from the singularity of situation.

The remains of the human bodies immersed in this mass of putrescence, were found in three different states, according to the time they had been buried, the place they occupied, and their relative situations with regard to each other. The most ancient were simply portions of bones, irregularly dispersed in the soil, portions or nones, irregularly dispersed in the son, which had been frequently disturbed. A second state, in certain bodies which had always been insulated, exhibited the skin, the muscles, the tendons, and aponeurosis, dry, britte, hard, more or less gay, and similar to what are called mummies in certain caverns where this change has been observed, as in the cata-combs at Rome, and the vault of the Cordeliers at Toulouse.

"The third and most singular state of these soft parts was observed in the bodies which filled the common graves or repositories. By this appellation are understood cavities of thirty feet in depth, and twenty on each side, which were dug in the burying-ground of the Innocents, and were appropriated to contain the bodies of the poor; which were placed in very close rows, each in its proper wooden bier. The necessity for disposing a great number, obliged the men charged with this employment to arrange them so near each other that these cavities might be considered when filled, as an entire mass of human bodies separated only by two planks of about half an inch thick. Each cavity contained between one thousand and fifteen hundred. When one common grave of this magnitude was filled a covering of about one foot deep of earth was laid upon it, and another excavation of the same sort was made at some distance. Each grave remained open about three years, which was the time required to fill it. According to the urgency of circumstances, the graves were again made on the same spot after an interval of time, not less than fifteen years, nor more than thirty. Experience had taught the workmen, that this time was not sufficient for the entire destruction of the bodies, and had shown them the progressive changes which form the object of Fourcroy's me-

"The first of these large graves, opened in the pre-ence of this chemist, had been closed for fifteen years. sence of this circums, has recurrent to the tall the set-tled, and the wood had a yellow tinge. When the covers of several were taken off, the bodies were ob-served at the bottom, leaving a considerable distance between their surface and the cover, and flattened as if they had suffered a strong compression. which had covered them was slightly adherent to the which had covered them was slightly adherent to the bodies; and with the form of the different regions exhibited on removing the linen, nothing but irregular masses of a soft ductile matter of a gray-white colour. These masses environed the bones on all sides, which had no solidity, but broke by any sudden pressure. The appearance of this matter, its obvious composition, and its softness, resembled common white cheese; and the resemblance was more striking from the print which the threads of the linen had made upon its surface. This white substance yielded to the touch, and became soft when rubbed for a time between the

"No very offensive smell was emitted from these bodies. The novelty and singularity of the spectacle, and the example of the grave-diggers, dispelled every idea either of disgust or apprehension. These men asserted that they never found this matter, by them called gras (fat,) in bodies interred alone; but that the accumulated bodies of the common graves only were subject to this change. On a very attentive examination of a number of bodies passed to this state, animation of a number of bodies passed to this state, Fourcroy remarked, that the conversion appeared in different stages of advancement, so that, in various bodies, the fibrous texture and colour, more or less red, were discernible within the fatty matter; that the masses covering the bones were entirely of the same nature, offering indistinctly in all the regions a gray substance, for the most part soft and ductile, sometimes dry, always easy to be separated in porous fragments, penetrated with cavities, and no longer exhibiting any traces of membranes, muscles, tendons, vossels, or nerves. On the first inspection of these ADI ADI

white masses, it might have been concluded that they ! were simply the cellular tissue, the compartments and vesicles of which they very well represented.

" By examining this substance in the different regions of the body, it was found that the skin is particularly disposed to this remarkable alteration. It was afterward perceived that the ligaments and tendons afterward perceived that the ligaments and rendoms no longer existed, or at least had lost their tenacity; so that the bones were entirely unsupported, and left to the action of their own weight. Whence their relative places were preserved in a certain degree by mere juxtaposition; the least effort being sufficient to separate them. The grave-diggers availed themselves of this circumstance in the removal of the hodies. For this circumstance in the removal of the bodies. they rolled them up from head to feet, and by that means separated from each other the extremities of the bones, which had formerly been articulated. In all those bodies which were changed into the fatty matter, the abdominal cavity had disappeared. The teguments and muscles of this region being converted teguments and muscles of this region being converted into the white matter, like the other soft parts, had subsided upon the vertebral column, and were so flatened as to leave no place for the viscera; and accordingly there was scarcely ever any trace observed in the almost obliterated cavity. This observation was for a long time matter of astonishment to the investigators. In vain did they seek in the greater num ber of bodies, the place and substance of the stomach her of bodies, the place and substance of the stomach, the intestines, the bladder, and even the liver, the spleen, the kidneys, and the matrix in females. All these viscera were confounded together, and for the most part no traces of them were left. Sometimes only certain irregular masses were found, of the same nature as the white matter, of different bulks, from that of a nut to two or three inches in diameter, in the regions of the liver or of the spleen.

regions of the liver or of the spleen.

"The thorax likewise offered an assemblage of facts no less singular and interesting. The external part of this cavity was flattened and compressed like the rest of the organs; the ribs, spontaneously luxated in their articulations with the vertebræ, were settled upon the dorsal column; their arched part left only a small space on each side between them and the vertebræ. The pleura, the mediastinum, the large vessels, the asterna vareir and even the lungs and the heart. the aspera arteria, and even the lungs and the heart, were no longer distinguishable; but for the most part had entirely disappeared, and in their place nothing was seen but some parcels of the fatty substance. In this case, the matter which was the product of decom-position of the viscera charged with blood and various humours, differs from that of the surface of the body, numours, differs from that of the surface of the body, and the long bones, in the red or brown colour possessed by the former. Sometimes the observers found in the thorax a mass irregularly rounded, of the same nature as the latter, which appeared to them to have arisen from the fat and fibrous substance of the heart. They supposed that this mass, not constantly found in all the subjects, owed its existence to a superabundance of fat in this viscus, where it was found. For the general observation presented itself, that, in similar circumstances, the fat parts undergo this conversion more evidently than the others, and afford a larger convince of the white matter. quantity of the white matter.

"The external region in females exhibited the glan dular and adipose mass of the breast converted into the

fatty matter, very white and very homogeneous.
"The head was, as has already been remarked, en "The head was, as has already been remarked, environed with the fatty matter; the face was no longer distinguishable in the greatest number of subjects; the mouth, disorganized, exhibited neither tongue nor palate; and the jaws, luxated and more or less displaced, were environed with irregular layers of the white matter. Some pieces of the same matter usually occupied the place of the parts situated in the mouth; the cartilages of the nose participated in the general alteration of the skin; the orbits, instead of eyes, contained white masses; the ears were equally disorganized; and the hairy scalp, having undergone a similar alteration to that of the other organs, still retained the bair. Fourcroy remarks incidentally, that the hair appears to resist every alteration much longer than any other part of the body. The cranium constantly contained the brain contracted in bulk; blackish at the surface, and absolutely changed like the other organs. In a great number of subjects which were examined, this viscus was never found wanting, and it was always in the above-mentioned state; which proves this viscus was never found wanting, and it was al-in a running stream, was converted into this fatty matter ways in the above-mentioned state; which proves at the end of a month. He judges from facts, that run-

that the substance of the brain is greatly disposed to be converted into the fat matter.

"Such was the state of the bodies found in the burial-ground des innocens. Its modifications were also various. Its consistence in bodies lately changed, that various. Its consistence in bodies latery changes, vis to say, from three to five years, was soft and very ductile, containing a great quantity of water. In other transfer a long time, such subjects converted into this matter for a long time, such as those which occupied the cavities which had been as those which occupied the cavities which had been closed thirty or forty years, this matter is drier, more brittle, and in denser flakes. In several, which were deposited in dry earth, various portions of the fatty matter had become semitransparent. The aspect, the granulated texture, and brittleness of this dried matter,

granulated texture, and brittleness of this dried matter, bore a considerable resemblance to wax.

"The period of the formation of this substance had likewise an influence on its properties. In general, all that which had been formed for a long time was white, uniform, and contained no foreign substance, or fibrous remains; such, in particular, was that afforded by the skin of the extremities. On the contrary, in bodies recently changed, the fatty matter was neither so uniform nor so pure as in the former; but it was still found to contain portions of muscles, tendons, and ligaments, the texture of which, though already altered and changed in its colour, was still distinguishable. Accordingly, as the conversion was more or less advanced, these fibrous remains were more or less pene-Accordingly, as the conversion was more or less auvanced, these fibrous remains were more or less penetrated with the fatty matter, interposed as it were
between the interstices of the fibres. This observation
shows, that it is not merely the fat which is thus
changed, as was natural enough to think at first sight. Other facts confirm this assertion. The skin, as has been remarked, becomes easily converted into very pure white matter, as does likewise the brain, neither of which has been considered by anatomists to be fat. It is true, nevertheless, that the unctuous parts, and bodies charged with fat, appear more easily and speedily to pass to the state under consideration. This was seen in the marrow, which occupied the cavities of the longer bones. And again, it is not to be supposed but that the greater part of these bodies had been emaciated by the illness which terminated their lives; not-withstanding which, they were all absolutely turned into this fatty substance

"An experiment made by Poulletier de la Salle, and "An experiment made by Poulletier de la Salle, and Fourcroy likewi e, evinced that a conversion does not take place in the fat alone. Poulletier had suspended in his laboratory a small piece of the human liver, to observe what would arise to it by the contact of the air. It partly putrefied, without, however, emitting any very noisome smell. Larve of the dermestes and bruchus attacked and penetrated it in various directions; at last it became dry, and after more than ten years' suspension, it was converted into a white friable substance, resembling dried again, which made humby have substance resembling dried agaric, which might have been taken for an earthy substance. In this state it substance resembling dreat agaric, which might have been taken for an earthy substance. In this state it had no perceptible smell. Poulletier was desirous of knowing the state of this animal matter, and experiment soon convinced him and Fourcroy that it was far from being in the state of an earth. It melted by heat, and exhaled in the form of vapour, which had the smell of a very fetid fat; spirit of wine separated a concrescible oil, which appeared to possess all the properties of spermaceti. Each of the three alcalies converted it into soap; and, in a word, it exhibited all the properties of the fatty matter of the burial-ground of the Innocents exposed for several months to the air. Here then was a glandular organ, which in the midst of the atmosphere had undergone a change similar to that of the bodies in the burying-place; and this fact sufficiently shows, that an animal substance which is very far from being of the nature of grease, may be totally converted into this fatty substance.

"Among the modifications of this remarkable substance in the burying-ground before-mentioned, it was

stance in the burying-ground before-mentioned, it was observed that the dry, friable, and brittle matter, was most commonly found near the surface of the earth, and the soft, ductile matter at a greater depth. Four-croy remarks, that this dry matter did not differ from the other merely in containing less water, but likewise

by the volatilization of one of its principles.' The grave-diggers assert, that near three years are required to convert a body into this fatty substance. But Dr. Gibbes of Oxford found, that lean beef secured

ning water is most favourable to this process. He took three lean pieces of mutton, and poured on each a quantity of the three common mineral acids. At the end of three days, each was much changed: that in the nitric it acid was very soft, and converted into the fatty matter; that in the muriatic acid was not in that time so

ter; that in the muriatic acid was not in that time so much altered; the sulphuric acid had turned the other black. Lavolsier thinks that this process may hereafter prove of great use in society. It is not easy to point out what animal substance, or what situation, might be the best adapted for an undertaking of this kind.

The result of Fourcroy's inquiries into the ordinary changes of bodies recently deposited in the earth, was not very extensive. The grave-diggers informed him, that those bodies interred do not perceptibly change colour for the first seven or eight days; that the putrid process disengages elastic fluid, which inflates the abdomen, and at length bursts it; that this event instantly causes vertigo, faintness, and nausea in such persons as unfortunately are within a certain distance of the scene fortunately are within a certain distance of the scene where it takes place; but that when the object of its action is nearer, a sudden privation of sense, and frequently death, is the consequence. These men are taught by experience, that no immediate danger is to be feared from the disgusting business they are engaged in, excepting at this period, which they regard with the ultinost terror. They resisted every inducement and persuasion which these philosophers made use of, to prevail on them to assist their researches into the nature of this active and pernicious vapour. Fourcroy takes occasion from these facts, as well as from the pallid and unwholesome appearance of the grave-diggers, to reprobate burials in great towns or their

Such bodies as are interred alone, in the midst of a great quantity of humid earth, are totally destroyed by passing through the successive degrees of the ordiby passing through the successive degrees of the ordi-nary putrefaction; and this destruction is more speedy, the warmer the temperature. But if these insulated bodies be dry and emaciated; if the place of deposition be likewise dry, and the locality and other circum-stances such, that the earth, so far from receiving moisture from the atmosphere, becomes still more ef-fectually parched by the solar rays;—the animal juices are volatilized and absorbed, the solids contract and harden, and a peculiar species of mummy is produced. But every circumstance is very different in the com-But every circumstance is very different in the common burying-grounds. Heaped together almost in contact, the influence of external bodies affects them scarcely at all, and they become abandoned to a peculiar disorganization, which destroys their texture, and produces the new and most permanent state of combination here described. From various observa-tions, it was found, that this fatty matter was capable of enduring in these burying-places for thirty or forty years, and is at length corroded and carried off by the aqueous putrid humidity which there abounds.

Among other interesting facts afforded by the chemical examination of this substance are the following from experiments by Fourcroy.

1. This substance is fused at a less degree of heat than

that of boiling water, and may be purified by pressure through a cloth, which disengages a portion of fibrous and bony matter. 2. The process of destructive distillation by a very graduated heat was begun, but not completed, on account of its tediousness, and the little promise of advantage it afforded. The products which came over were water charged with volatile alcali, a fat oil, concrete volatile alcali, and no elastic fluid during the time the operation was continued. 3. Fragments of the fatty matter exposed to the air during the hot and dry summer of 1786 became dry, brittle, and almost pulverulent at the surface. On a careful examination, certain portions were observed to be semitransparent, and more brittle than the rest. These possessed all the apparent properties of wax, and did not afford volatile alcall by distillation. 4. With water this fatty matter exhibited all the appearances of soap, and afforded a strong lather. The dried substance did not form the saponaceous combination with the same facility or perfection as that which was re-cent. About two-thirds of this dried matter separated cent. About two-thrus of this area matter especiated from the water by cooling, and proved to be the semi-transparent substance resembling wax. This was taken from the surface of the soapy liquor, which being then passed through the filter, left a white soft shining matter, which was fusible and combustible.

5. Attempts were made to ascertain the quantity of volatile alcali in this substance, by the application of lime, and of the fixed alcalies, but without success: for it was difficult to collect and appreciate the first portions which escaped, and likewise to disengage the least precision. last portions. The caustic volatile alcali, with the assistance of a gentle heat, dissolved the fatty matter, assistance of a genue near, dissolved the larry matter, and the solution became perfectly clear and transparent at the boiling temperature of the mixture, which was at 185° F. 6. Suiphuric acid, of the specific gravity of 2.°0, was poured upon its times its weight of the fatty matter, and mixed by agitation. Heat was produced, and a gray of the proof the proof the produced. produced, and a gas or effluvium of the most insupportable putrescence was emitted, which infected the air of an extensive laboratory for several days. croy says, that the smell cannot be described, but that it is one of the most horrid and repulsive that can be imagined. It did not, however, produce any indispo-sition either in himself or his assistants. By dilution with water, and the ordinary processes of evaporation and cooling, properly repeated, the sulphates of ammonia and of lime were obtained. A substance was separated from the liquor, which appeared to be the waxy matter, somewhat altered by the action of the acid. 7. The nitrous and muriatic acids were also applied, and afforded phenomena worthy of remark, but which for the sake of conciseness are here omitted. 8. Alcohol does not act on this matter at the ordinary temperature of the air. But by boiling it dissolves one-third of its own weight, which is almost dissolves one-third of its own weight, which is almost totally separable by cooling as low as 55°. The alcohol, after this process, affords by evaporation a portion of that waxy matter which is separable by acids, and is therefore the only portion soluble in cold alcohol. The quantity of fatty matter operated on was 4 ounces, or 2904 grains, of which the boiling spirit took up the whole except 26 grains, which proved to be a mixture of one are the second color of the color of the second color of the second color of the color of the second color of the color of 20 grains of ammoniacal soap, and 6 or 8 grains of the phospitates of soda and of lime. From this experiment, which was three times repeated with similar results, it appears that alcohol is well suited to afford an analysis of the fatty matter. It does not dissolve the neutral salts; when cold, it dissolves that portion of concrete animal oil from which the volatile alcali had flown off; and when heated, it dissolves the whole of the truly saponaceous matter, which is after-ward completely separated by cooling. And accord-ingly it was found, that a thin plate of the fatty matter, which had lost nearly the whole of its volatile alcali, by exposure to the air for three years, was almost dissolved by the cold alcohol.

almost dissolved by the cold alcohol.

The concrete oily or wary substance obtained in these experiments constitutes the leading object of research, as being the peculiar substance with which the other well-known matters are combined. It separates spontaneously by the action of the air, as well as by that of acids. These last separate it in a state of greater purity, the less disposed the acid may be to operate in the way of combustion. It is requisite, therefore, for this purpose, that the fatty matter should be previously diffused in 12 times its weight of hot water; and the muriatic or acetous acid is preferable to the sulphuric or the nitrous. The colour of the waxy matter is grayish; and though exposure to the air, and also the action of the oxygenated muriatic acid did produce an apparent whitteness, it nevertheless disdid produce an apparent whiteness, it nevertheless dis-appeared by subsequent fusion. No method was dis-covered by which it could be permanently bleached. The nature of this wax or fat is different from that

of any other known substance of the like kind. When slowly cooled after fusion, its texture appears crystalshowly booled after throng, its texture appears of the ine or shivery, like spent permacet; but a speedy cooling gives it a semitransparency resembling wax. Upon the whole, nevertheless, it seems to approach more nearly to the former than to the latter of these bodies. nearly to the former than to the latter of these bodies. It has less smell than spermaceti, and melts at 127° F; Dr. Bostock says 92°. Spermaceti requires 6° more of beat to fuse it, (according to Dr. Bostock 20°). The spermacet id not so speedily become brittle by cooling as the adipocire. One ounce of sloonlo of the strength between 39 and 40 degrees of Baume's aerometer, dissolved when boiling hot 12 gross of this substance, but the same quantity in like circumstances dissolved only 30 or 36 grains of speeding the companion of these strengths. 3d or 36 grains of spermaceti. The separation of these matters was also remarkably different, the spermaceti being more speedily deposited, and in a much more regular and crystalline form. Ammonia dissolves

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with singular facility, and even in the cold, this con- | colon, solid masses of fat are sometimes met with in a crete oil separated from the faity matter; and by heat it forms a transparent solution, which is a true soan. But no excess of ammonia can produce such an effect

with spermaceti.

Fourcroy concludes his memoir with some speculations on the change to which animal substances in peculiar circumstances are subject. In the modern chemistry, soft animal matters are considered as a com-position of the oxydes of hydrogen and carbonated azote, more complicated than those of vegetable matters, and therefore more incessantly tending to alteration. If then the carbon be conceived to unite with the oxygen, either of the water which is present, or of the other animal matters, and thus escape in large quantities in the form of carbonic acid gas, we shall perceive the reason why this conversion is attended with so great a loss of weight, namely, about nine-tenths of the whole. The azote, a principle so abundant in animal matters, will form ammonia by combining with the hydrogen; part of this will escape in the vaporous form, and the rest will remain fixed in the fatty mat-ter. The residue of the animal matters deprived of a great part of their carbon, of their oxygen, and the whole of their azote, will consist of a much greater proportion of hydrogen, together with carbon and a minute quantity of oxygen. This, according to the theory of Fourcroy, constitutes the waxy matter, or adipocire, which, in combination with ammonia, forms the animal soap, into which the dead bodies are thus converted.

Muscular fibre, macerated in dilute nitric acid, and Amuscular nore, macerated in chuite intric acol, and afterward well washed in warm water, affords pure adipocire, of a light yellow colour, nearly of the consistence of tallow, of a homogeneous texture, and of course free from ammonia. This is the mode in which it is now commonly procured for chemical experiment.

Ambergris appears to contain adipocire in large

quantity, rather more than half of it being of this sub-

Adipocire has been more recently examined by Adipocire has been more recently examined by Chevreul. He found it composed of a small quantity of ammonia, potassa, and lime, united to much margarine, and to a very little of another fatty matter different from that. Weak muriatic acid seizes the three alcaline bases. On treating the residue with a solution of potassa, the margarine is precipitated in the form of a pearly substance, while the other fat remains dissolved. Fourcroy being of opinion that the fatty matter of animal carcasses, the substance of biliary calcult. calculi, and spermaceti, were nearly identical, gave them the same name of adipocire; but it appears from the researches of Chevreul that these substances are

very different from each other.
In the Philosophical Transactions for 1813, there is a In the l'hilosophical 'Transactions for 1813, there is a very interesting paper on the above subject by Sir E. Home and Mr. Brande. He adduces many curious facts to prove that adipocire is formed by an incipient and incomplete putrefaction. Mary Howard, aged 44, died on the 12th May, 1790, and was buried in a grave ten feet deep at the east end of Shoreditch churchyard, ten feet to the east of the great common sewer, which runs from north to south, and has always a current of runs from north to south, and has always a current of water in it, the usual level of which is eight feet below the level of the ground, and two feet above the level of the collins in the graves. In August, 1811, the body was taken up, with some others buried near it, for the purpose of building a vault, and the flesh in all of them was converted into adipocire or spermaceti. At the full and new moon the tide raises water into the graves, which at other times are dry. To explain the extraordinary quantities of fate adipocire formed by extraordinary quantities of fat or adipocire formed by animals of a certain intestinal construction, Sir E. ob serves, that the current of water which passes through their colon, while the loculated lateral parts are full of solid matter, places the solid contents in somewhat similar circumstances to dead bodies in the banks of a common sewer.

The circumstance of ambergris, which contains 60 per cont. of fat, being found in immense quantities in the lower intestines of the spermaceti whales, and never higher up than seven feet from the anus, is an undentable proof of fat being formed in the intestines; and ar ambergris is only met with in whales out of health it is most probably collected there from the absorbents, under the influence of disease, not acting so as to take it into the constitution. In the human

colon, solid masses of lat are sometimes met with in a diseased state of that canal. A description and analysis by Doctor Ure of a mass of ambergris, extracted in Perthshire from the rectum of a living woman, were published in a London Medical Journal in September, 1817. There is a case communicated by Dr. Babington, of fat formed in the intestines of a girl four and a half years old, and passing off by stool. Mr. Brande found, on the suggestion of Sir E. Home, that muscle digested on the suggestion of Sir E. Home, that muscle digested in bile, is convertible into fat, at the temperature of about 100°. If the substance, however, pass rapidly into putrefaction, no fat is formed. Faces voided by a gouty gentleman after six days' constipation, yielded, on infusion in water, a fatty film. This process of forming fat in the lower intestines by means of bile, throws considerable light upon the nourishment derived from clysters, a fact well ascertained, but which could not be explained. It also accounts for the wasting of the body, which so invariably attends all complaints of the lower bowels. It accounts too for all the varieties in the turns of the colon, which we meet with in so great a degree in different animals. property of the bile explains likewise the formation of fatty concretions in the gall bladder so commonly met fatty concretions in the gall bladder so commonly met with, and which, from these experiments, appear to be produced by the action of the bile on the mucus secreted in the gall bladder; and it enables us to understand how want of the gall bladder in children, from mal-formation, is attended with excessive leanness, notwithstanding a great appetite, and leads to an early death. Fat thus appears to be formed in the intestines, and from thence received into the circulation, and deposited in almost every part of the body. And as there appears to be no direct channel by which any superabundance of it can be thrown out of the any superabundance of it can be thrown out of the body, whenever its supply exceeds the consumption, its accumulation becomes a disease, and often a very

distressing one.
[In the New-York Medical Repository, vol. ii. p. 325, is related the case of a person who was drowned, and whose body was converted into this substance after lying in the mud of a river for a year. seen a piece of meat raised out of a well by pumping, into which it had fallen, and where it was completely changed into adipocire. A barrel of meat, which had undergone a change and become adipocire, was raised from the British frigate Hussar, sunk near Heil-Gate during the revolutionary war, where it had remained in eight or ten fathoms of salt water near fifty years. A single body of a female, consisting of a solid mass of adipocire, was dug up in dry ground, near the City Hall in New-York. A box of candles, taken from a sunken wreck on the coast of Brazil, was changed in appearance and consistence, and had become a mass of adipocire. The bones of a huge cetaceous animal were dug up in the low grounds about New-Orleans: when they were exhibited as a show in New-York, in 1828, adipocire was discovered in the cells of the spongy part of the jaw-bone. A.] into which it had fallen, and where it was completely

spongy part of the jaw-bone. A.]
ADIPOSE. (Adiposus; from adeps, fat.) Fatty; as adipose membrane, &c.

Adipose Membrane. Membrana adiposa. fat collected in the cells of the cellular membrane.

fat collected in the cells of the cellular membrane. ADIPSA. (From a, neg, and διψα, thirst.) 1. So the Greeks called medicines, &c. which abate thirst. 2. Hippocrates applied this word to oxymel. ADIPSIA. (From a, neg, and διψα, thirst.) A want of thirst. A genus of disease in the class locales, and order dysorezia of Cullen's Nosology. It is mostly symptomatic of some disease of the brain. ADIPSOS. So called because it allays thirst.) 1. The Egyptian palm-tree, the fruit of which is said to be the Myrobolans, which quench thirst.
2. Also a name for fliquorice.
ADIUTO'RIUM. (From ad and juvo, to help.) A name of the humerus, from its usefulness in litting up the fore-arm.

ADJUVA'NTIA. Whatever assists in preventing

or curing disease.

or curing disease,

Admart Atunca. Albuginea oculi; Tunica albuginea oculi. A membrane of the eye mostly confounded with the conjunctiva. It is, however, thus formed; five of the muscles which move the eye, take their origin from the bottom of the orbit, and the sixth arises from the edge of it; they are all inserted by a tendinous expansion, into the anterior part of the tunica elegating, which expansion forms the adman and sclerotica, which expansion forms the adnata, and

gives the whiteness peculiar to the fore-part of the other on the same stem, as in valerian, teasel, honey-It lies between the sclerotica and conjunctiva.

ADNA'TUS. (From adnescer, to grow to.) A term applied to some parts which appear to grow to others: as tunica adnata, stipulæ adnatæ, folium

ADOLESCE'NTIA. See Age.
ADO'NION. (From Αδωνις, the youth from whose blood it was feigned to have sprung.) Adonium. See Artemisia abrotanum.

ADONIUM. See Adonion.
ADO'PTER. Tubus intermedius. A chemical vessel with two necks, used to combine retorts to the cucurbits or matrasses in distillation, with retorts instead of receivers.

A'nor. A sort of corn, called also spelta.
A'pos. Forge water, or water in which red-hot

iron is extinguished

AD PONDUS OMNIUM. The weight of the whole. These words are inserted in pharmaceutical prepara-tions, or prescriptions, when the last ingredient ought to weigh as much as all the others put together.

ADPRESSUS. Approximated. A term in botany, applied to branches of leaves when they rise in a direction nearly parallel to the stem, and are closely applied to them, as in the branches of the Genista tinetoria and leaves of the Thiaspi campestris.

ADRA RHIZA. Blancard says the root of the Aristolochia is thus named.

ADRA'CHNE. The strawberry bay-tree. A species

of Arbutus.

An Indian name for our garden-saffron. ADRARA'GI.

ADRARA'CI. An Indian name for our garden-saffron.
ADROBO'LON. (From acloss), large, and βωλος,
a globe, hole, or mass.) Indian bidelium, which is
coarser than the Arabian. See Bdetlium.
ADSCENDENS. See Ascendens.
ADSTRICTION. Costiveness.
ADSTRICTION. Experiment.
[ADULARIA. This is the most perfect variety of feldspar, and bears to common feldspar, in many respects, the relation of rock crystal to common quarter. Adularia is more or less translucent, and sometimes transparent and limpid. Its colour is white, either a little milky, or with a tinge of green, yellow, or red. But it is chiefly distinguished by presenting, when in certain positions, whitish reflections, which are often slightly tinged with blue or green, and exhibit a pearly or silver lustre. These reflections, which are often confined to certain spots, proceed in most cases from the interior of the crystal.

Adularia is sometimes cut into plates and polished. The fish's eye, moonstone, and argentine, of lapidaries, come chiefly from Persia, Arabia, and Ceylon, and belong to adularia, as do also the water opal and girasole of the Italians.—Clean! Min.

It has been found in the states of Maryland, Pennsylvania, New-York, and Massachusetts. A.]
ADUSTION. Adustio. I. An inflammation about

ADUSTION. Adustic. 1. An inflammation about the brain, and its membranes, with a hollowness of the eyes, a pale colour, and a dry body; obsolete.

2. In surgery, adustion signifies the same as cauterization, and means the application of any substance to the animal body, which acts like fire. The ancient surgeons, especially the Arabians, were remarkably fond of having recourse to adustion in local diseases; but the use of actual heat is very rarely admitted. by but the use of actual heat is very rarely admitted by

the moderns

ADVENTITIOUS. (Adventitius; from advenio, ADVENTITIOUS. (Adventitus; from accesso, to come to.) Any thing that accidentally, and not in the common course of natural causes, happens to make a part of another. Something accruing or befalling a person or thing from without. It is used in medicine in opposition to hereditary; as when diseases may be transmitted from the parent and also acquired, as is the case with gout and scrofula. They are some-

as is the case with gout and scronda. They are some-times hereditary, and very often adventitious. ADVERSIFO'LIA. (From adversus, opposite, and folium, a leaf.) A plant with alternate leaves. ADVERSIFO'LIE PLANTE. I. Plants the leaves of which stand opposite to each other on the same stem or branch.

2. The name of a class in Sauvages' Methodus Foorum. Valerian, teasel, honey-suckle, &c. are

examples.
ADVERSUS. Opposite. Applied in natural history adversifetiae, the leaves standing opposite to each is sedative, and was formerly applied to mitigate pains

Suckle, &c.

ADYNA'MIA. (Adynamia, α, f.; Αδυναμια, from a, priv. and δυναμις, power.) A defect of vital power.

ADYNA'MIZ. (The plural of Adynamia.) The second order of the class neuroses of Cullen's Nosology; it comprehends syncope, dyspepsia, hypochondriasis, and chlorosis.

Any 'Namuma. Among ancient physicians, it signified a kind of weak factitious wine, prepared from must, boiled down with water; to be given to patients to whom pure or genuine wine might be hurtful.

ADYNAMUM.

ADYNAMUM. See Adynamon.

[EDELITE. A mineral described by Kirwan, containing, according to Bergman, silex from 62 to 69 parts, alumine from 18 to 20, lime from 8 to 16, water 3 to 4.—Clean, Min. A.1. to 4.-Cleav. Min. A.]

3 to 4.—Clear. July. A.: J. A. Flom alobo, modesty; or from a, negand action, to see; as not being decent to the sight.) The pudenda, or parts of generation. AEDOPSO PHIA. (From actiona, pudenda; and ψορέω, to break wind.) A term used by Sauvages and Sagar, to signify a flatus efrom the bladder, or from the wormh, making its escape through the vagina.

From the women making its scape through the vaging AEDOPTO'SiS. (AEdoptoris; from abovior, the groin; pl. atôota, pudenda; and  $\pi$ 5 $\omega$ 6 $\omega$ 5, a falling down.) Genital prolapsi. The name of a genus of diseases in Good's Nosology.

diseases in Good's Nosology.

ÆG-46RO PILUS. (From αιγαγρος, a wild goat, and pila, a ball.) Ægagropila.

1. A ball found in the stomach of deer, goats, hogs, horned cattle, as cows, &c. It consists of hairs which they have swallowed from licking themselves. They are of different degrees of hardness, but have no medi-cinal virtues. Some rank these balls among the Bezonrs. Hieronymus Velschius wrote a treatise on the virtues of this.

2. A species of conferva found in Wallenfenmoor, from its resembling these concretions, is also so named. Æ'GIAS. A white speck on the pupil of the eye, which occasions a dimness of sight.

ÆGI'DES. Aglia. A disorder of the eyes mentioned by Hippocrates. Foësius thinks the disease consists of small cicatrices in the eye, caused by an consists of small retailles in the eye, caused by an afflux of corrosive humours upon the part. But in one passage of Hippocrates, Foësius says it signifies small white concretions of humours which stick upon the pupil, and obscure the sight.

ÆGI'DION. A collyrium or ointment for inflamma-

tions and defluxions of the eyes.

ÆGILOPS. 1. The same as Ægylops.

2. Wild fescue grass, so called from its supposed virtue in curing the disorder named Ægylops. It is a

species of Bromus in the Linneau system.

AGINE TA, PAULES. A celebrated surgeon of the island of Agina, from which he derived his name. He is placed by Le Clerc in the fourth century: by others in the seventh. He was eminently skilled in his profession, and his works are frequently cited by Fabrical Carlos. cius ab Aquapendente. He is the first author that notices the cathartic quality of rhubarb. He begins his book with the description of the diseases of women; and is said to be the first that deserves the appellation of a man midwife.

Ægine'tia. Maiabrian broom rape. A species of

Orobancha.

ÆGIS. A film on the eye. ÆGO CERAS. (From αιζ, a goat, and κερας, horn; so called, because the pods were supposed to resemble the horns of a goat.) Fœnugreek. See Trigmella Fænumgræcum

Trigmetta Faming racum.

ÆGOLETHRON. (From aιζ, a goat, and ολεθος, destruction: so named from the opinion of its being poisonous to goats.) Tourneiort says it is the Chamarododendron, now the Azelaa pontica of Linneus.

marododendron, now the Azelea portica of Linneus.

ÆGO'NYCHON. (From at, a goat, and orve, a hoof: because of the hardness of the seed.) See Lithospermum officinale.

ÆGOPO'DIUM. ("Wegopodium, i. n.; from at, a goat, and wors, a foot: from its supposed resemblance to a goat's foot.) A genus of plants in the Linnean system. Class, Pentambria; Order, Diagnia. Goatweed. The following species was formerly much estemped. esteemed.

ÆGOPODIUM PODAGRARIA. Goatweed. This plant

its earlier state it is tender and esculent.

Abournos 'ron. (From atξ, a goat, and προσωπον, a face: so called because goats are subject to defects in the eyes, or from having in it some ingredients named after the goat.) A name of a lotion for the

eyes, when inflamed. ÆGYLOPS. (A eyes, when inflamed.  $\cancel{Egylops}$ , opis, m.; from  $ai\xi$ , a goat, and  $a\psi$ , an eye.) Anchilops. A disease so named from the supposition that goats were very subject to it. The term means a sore just under the inner angle of the eye. The best modern surgeons seem to consider the  $\cancel{egylops}$  only as a stage of the fistual lachrymalis. Faulus  $\cancel{egylops}$  gineta calls it anchilops, before it bursts, and  $\cancel{egylops}$  after. When the skin covering the lachrymal see has been for some time inflamed or the lachrymal sac has been for some time inflamed, or subject to frequent returning inflammations, it most commonly happens that the puncta lachrymalia are affected by it; and the fluid, not having an opportunity of passing off by them, distends the inflamed skin, so that at last it becomes sloughy, and bursts externally. This is that state of the disease which is called

Pally Pints in the state of the Managara perfect algebras, or against the See Hisseus abelmoschus.

AGYPTIA MUSCATA. See Hisseus abelmoschus.

AGYPTIA CUM. A name given to different unguents of the detergent or corrosive kind. We meet with a black, a red, a white, a simple, a compound, and a magistral ægyptiacum. The simple ægyptiacum, and a magistral ægyptiacum. and a magistral agyptiacum. The simple agyptiacum, which is that usually found in our shops, is a composition of verdigris, vinegar, and honey, boiled to a consistence. It is usually supposed to take its name from its dark colour, wherein it resembles that of the natives of Egypt. It is improperly called an unguent, as there is no oil, or rather far in it.

ÆGY PTIUM PHARMACUM AD AURES. Actius speaks of this as excellent for deterging fætid ulcers of the ears, which he says it cures, though the patient were ÆGY PTIUM PHARMACUM AD AURES.

Dorn with them.

AEIPATHEI'A. (From act, always, and walos, a disease.) Diseases of long duration.

ENEA. (From act, brass, so called because it was formerly made of brass.) A catheter.

EO'NION. The common house leek. See Semperativum tectorum.

EORA. (From  $a\iota\omega\rho\varepsilon\omega$ , to lift up, to suspend on high.) Exercise without muscular action; as swinging. A species of exercise used by the ancients, and of which Aëtius gives the following account. Gestation, while it exercises the body, the body seems to be Of this motion there are several kinds. First, arrest. Of this motion there are several kinds. First, swinging in a hammock, which, at the decline of a fever, is beneficial. Secondly, being carried in a litter, in which the patient either sits or lies along. It is useful when the gout, stone, or such other disorder attends, as does not admit of violent motions. Thirdly, riding in a chariot, which is of service in most chroni cal disorders; especially before the more violent exercises can be admitted. Fourthly, sailing in a ship or boot. This produces various effects, according to the boat. This produces various effects, according to the different agitation of the waters, and, in many tedious chronical disorders, is efficacious beyond what is observed from the most skilful administration of drugs. These are instances of a passive exercise.

EQUATIS. Equal. Applied by botanists to distinguish length; as filmenta aquatic; pedunculi aquates, &c.

EQUIE. Equally. The same as ana.

Equally. The same as ana. LVIS. Æquivalys. A bot ÆQUIVALVIS. A botanical term,

implying, composed of equal valves.

A'ER. (Aer, eris, m.; from ano.) The fluid which surrounds the globe. See Air and Atmosphere.

ERA. Darnel, or lolium.

Erated alkaline water.

nated with carbonic acid. An alkaline water impreg-

nated with carbonic acid.

ÆRIAL. Belonging to air.

Ærial Acid. See Carbonic acid.

Ærial plants. Those plants are so called which, after a certain time, do not require that their rous elouid be fixed to any spot in order to maintain their life, which they do by absorption from the atmosphere. Such are a curious tropical tribe of plants called cacti, couch are a currous tropical true of plants called cacti,
 the epidendrum, flos aris, and the ficus australis.
 ÆRITINS. The Anagaliss, or pimpernell.
 ÆROLITE. A meteoric stone.
 ÆROLOGITE. See Asrology.
 AEROLOGY. (Aerologia, a, f.; from ano. the aft, and λογος, a discourse.)
 Aerologics. That part 32

of gout, and to relieve piles, but not now employed. In | of medicine which treats of the nature and proper ties of air.

AEROMETER. An instrument for making the necessary corrections in pneumatic experiments to ascertain the mean bulk of the gases.

AEROPHO'BIA. Fear of air or wind.

1. Said to be a symptom of phrenitis and hydro-

2. A name of Hydrophobia.
AEROPHOBUS. (From anp, air, and \$\phi\text{o}60\_5\$, fear.)
According to Celius Aurelianus, some purenette patients are afraid of a lucid, and others of an obscure s are alraid of a fuctor, and others of and these he calls aerophobi.

ERO SIS. The aerial vital spirit of the ancients.

AERO SIS. The aerial vital spirit of the ancients. ÆROSTATION. Ærostatio. A name commonly, but not very correctly, given to the art of raising heavy bodies into the atmosphere, by buoyancy of heated air, or gases of small specific gravity, enclosed in a bag, which from being usually of a spherical form, is called

AROSUS LAPIS. So Pliny calls the Lapis calaminaris, upon the supposition that it was a copper ore.

Verdigris.

TRU GA. verdigris.

ERU GO. (Ærugo, ginis, f., from æs, copper.)

The rust of any metal, particularly of copper.

2. Verdigris. See Verdigris.

Ærugo ærts. Rusts of copper or verdigris. See

Verdigris. ERUGO PREPARA'TA. See Verdigris.

Bras

AESCULA PIUS, said to be the son of Apollo, by the nymph Coronis, born at Epidaurus, and educated by Chiron, who taught him to cure the most dangerous by Chiron, who taught him to cure the most dangerous diseases, and even raise the dead; worshipped by the ancients as the god of medicine. His history is so involved in fable, that it is useless to trace it minutely. His two sons, Machaon and Podalirius, who ruled over a small city in Thessaly, after his death accompanied the Greeks to the siege of Troy: but Homer speaks merely of their skill in the treatment of wounds; and divine honours were not paid to their father till a latter period. In the temples raised to him, votive tablets were hung up, on which were recorded the dis-

eases cured, as they imagined, by his accistance.

E'SCULUS. (Esculus, i, m.; from esca, food.)
The name of a genus of plants in the Linnæan system
Class, Hephandria; Order, Monogynia. Horse-Class, Heptandria;

ÆSCULUS HIPPOCASTANUM. The systematic name for the common horse-chesnut tree. Castanea equin for the common horse-chesnut tree. Castanca equina, pavina. Executus-foliolis septemás of Linnœus. The fruit of this tree, when dried and powdered, is recommended as an errhine. The bark is highly esteemed on the continent as a febrifuge; and is, by some, considered as being superior in quality to the Peruvian bark. The bark intended for medical use is to be taken from those branches which are neither very young nor very old, and to be exhibited under similar forms and doses, as directed with respect to the Peruvian bark. It variety diagraces with the extent. forms and doses, as directed with respect to the Peruvian bark. It rarely disagrees with the stomach; but
its astringent effects generally require the occasional
administration of a laxative. During the late scarcity
of grain, some attempts were made to obtain starch
from the horse-chesnut, and not without success.

ESTHE'TICA. (From atodavopas, to feel, or perceive.) Diseases affecting the sensation. The name
of an order of diseases in Good's Nosology. See No

ÆSTIV'ALIS. (From æstas, summer.) Æstival; belonging to summer. Diseases of animals and plants

summer, or its influence on things

ÆSTPHARA. Incineration, or burning of the flesh.

ABSTPHARA. Incineration, or burning of the flesh, or any other part of the body.

ABSTUA'RIUM. A stove for conveying heat to all parts of the body at once. A kind of vapour bath. Ambrose Pare calls an instrument thus, which he describes for conveying heat to any particular part. Palmarius, De Mobils Contagiosis, gives a contrivance under this name, for sweating the whole body.

ABSTUA'TIO. The hading up, or rather the fermenting of fiquors when mixed.

A. STUS. Astus, as, m.; from the Hebrew esh,

heat. Heat; applied to the feeling merely of heat, and cometimes to that of inflammation in which there is heat and redness.

ÆSTUS VOLATICUS. I. Sudden heat, or scorching, which soon goes off, but which for a time reddens the

According to Vogel, synonymous with phlogosis.
 Erythema volaticum of Sauvages.
 TAS. See Age.

ÆTAS. See Age.

ÆTHER. (Æther, sris, m.; from αιθηφ: a supposed fine subtile fluid.) Æther. A volatile liquor, obtained by distillation, from a mixture of alcohol and

& concentrated acid.

a concentrated acid.

The medical properties of ether, when taken internally, are antispasmodic, cordial, and stimulant. Against nervous and typhoid fever, all nervous diseases, but especially tetanic affections, sopporese diseases from debility, asthma, palsy, spasmopic colic, hysteria, &c. it always enjoys some share of reputation. Regular practitioners seldom give so much as empirics, who sometimes venture upon large quantities with incredible henofit. Anylied externally, it is empirics, who sometimes venture upon large quantities, with incredible benefit. Applied externally, it is of service in the headache, toothache, and other painful affections. Thus employed, it is capable of producing two very opposite effects, according to its management; for, if it be prevented from evaporating, by covering the place to which it is applied closely with the hand, it proves a powerful stimulant and rubefacient, and excites a sensation of burning heat, as is the case with solutions of camphor in alcohol, or turpentine. In this way it is frequently used for removing pains in the head or teeth. On the contrary, if it be dropped on any part of the body, exposed freely to the air, its rapid evaporation produces an intense degree of cold; and, as this is attended with a proportional diminution of bulk in the part, applied in this way, it has frequently contributed to the reduction of the intestine, in cases of strangulated hernia.

way, it has frequently contributed to the reduction of the intestine, in cases of strangulated hernia.

#ETHER RECTIFICATUS. #Ether vitriolicus. Rectified wher. Take of sulphuric ather, fourteen fluid ounces. Fused potash, half an ounce. Distilled water, eleven fluid ounces.

First dissolve the potash in two ounces of the water, and add thereto the wither, shaking them well together, until they are mixed. Next, at a temperature of about 200 degrees, distil over twelve fluid ounces of rectified ather, from a large retort into a cooled receiver. Then shake the distilled ather well with nine fluid ounces of water, and set the liquor by, so that the water may water, and set the liquor by, so that the water may subside. Lastly, pour off the supernatant rectified wither, and keep it in a well-stopped bottle. Sulphuric wher is impregnated with some sulphu-

Ether, and keep it in a well-stopped bottle.

Sulphuric wither is impregnated with some sulphureous acid, as is evident in the smell, and with some etherial oil: and these require a second process to separate them. Potash unites to the acid, and requires to be added in a state of solution, and in sufficient quantities, for the purpose of fleutralizing it; and it also forms a soap with the oil. It is advantageous also to use a less quantity of water than exists in the ordinary solution of potash; and therefore the above directions are adopted in the last London Pharmacopaia. For its virtues, see \*\*Ether\*\*.

\*\*ATHER SULPHURICUS. \*\*Naphtha.\*\* vitrioli; \*\*Ether\*\* vitriolicus.\*\* Sulphuric ether. Take of rectified spirit, sulphuric acid, of each, by weight, a pound and a half. Pour the spirit into a glass retort, then gradually add to it the acid, shaking it after each addition, and taking care that their temperature, during the mixture, may not exceed 120 degrees. Place the retort very cautiously into a sand bath, previously heated to 200 degrees, so that the liquor may boil as speedily as possible, and the æther may pass over into a tubulated receiver, to the tubulure of which another receiver is applied, and kept cold by immersion in ice, or water. Continue the distillation until a heavier part also begins to pass over, and appear under the æther in the bottom of the receiver. to pass over, and appear under the either in the bottom of the receiver. To the liquor which remains in the retort, pour twelve fluid ounces more of rectified spirit, and repeat the distillation in the same manner.

It is mostly employed as an excitant, nervine, antispasmodic, and diuretic, in cases of spasms, cardialgia, enteralgia, fevers, hysteria, cephalalgia, and spasmodic asthma. The dose is from min. xx to 3ij. Externally, it cures toothache, and violent pains in the head.

ATHER VITRIOLICUS. See Æther sulphuricus and

Ether rectificatus.

ÆTHE'REA HERBA. The plant formerly so called is supposed to be the Eryngium.

ETHERIAL OIL. See Oleum Etherium.

E'THIOPS. A term applied formerly to several preparations, because of a black colour, like the skin an Æthiopian.

ÆTHIOPS ANTIMONIA'LIS. A preparation of anti mony and mercury, once in high repute, and still em ployed by some practitioners in cutaneous diseases A few grains are to be given at first, and the quantity increased as the stomach can bear it.

increased as the stomach can bear it.

ÆTHIOFS MARTIALIS. A preparation of iron, for
merly in repute, but now neglected.

Æthiops mineral. The substance heretofore known
by this name, is called by the London College, Hydrawgyri sulphuretum nigrum.

ÆTHMOID. See Ethmoid.

Æthmoid Artery.

Æthmoid Bone. See Ethmoid Bone.

ÆTHIUSA (Æthmoid Bone.

Ethmoid Artery. See Ethmoid Artery.

Æthmoid Bone. See Ethmoid Bone.

ÆTHU'SA. (Æthusa, æ, f.; from abovoa, beggatly.) The name of a genus of plants of the Linnæan system. Class, Pentandria; Order, Digynsa.

ÆTHUSA MEUN. The systematic name of the meum of the Pharmacopæias. Called also Meum athamantieum; Meu; Spignel; Baldmoney. The root of this plant is recommended as a carminative, stomachie, and the etempating viscid humonus, and appears to be pant. Is recommended as a carminative, stomachic, and for attenuating viscid humours, and appears to be nearly of the same nature as lovage, differing in its smell, being rather more agreeable, somewhat like that of parsnips, but stronger, and being in its taste less sweet, and more warm, or acrid.

AETIOLOGY. (Attiologia, \(\sigma\), \(\text{it}\) attiologia, \(\sigma\), \(\text{it}\) attiologia, \(\sigma\), \(\text{it}\) attiologia.

sweet, and more warm, or acrid.

ÆTIOLOGY. (Ætiologia, σ, f.; αιτιολογια: from αι')ια, a cause, and λογος, a discourse.) The doctrine of the causes of diseases.

ÆTITES. Eagle stone. A stone formed of oxyde of iron, containing in its cavity some concretion which rattles on shaking the stone. Eagles were said to carry them to their nest, whence their name: and superstition formerly ascribed wonderful virtues to them. [This is now arranged automa, the ores of iron by

[This is now arranged among the ores of iron by the name of the nodular argillaceous oxide of iron.

the hame of the natura arguaceous oxide of ston. See Clean. Min. A.]

AE TIUS. A physician, called also Amidenus, from the place of his birth. He flourished at Alexandria, about the end of the fifth century, and left sixteen books, divided into four tetrabiblia, on the practice of physic and surgery, principally collected from tice of physic and surgery, principally collected from Galen and other early writers, but with some original observations. He appears very partial to the use of the cautery, both actual and potential, especially in palsy; which plan of treatment Mr. Pott revived in paraphlegia; and it has since often been adopted with success. Agrius is the earliest writer who ascribed medical efficacy to the external use of the magnet, particularly in gout and convulsions; but rather on the report of others, than as what he had personally experienced.

ÆTO'CION. Ætolium. The granum cnidium. See

ACTO (ION. Actolium. Integration tentains. Department meters of the property of the property of the property of the property of the whole body, or a part of it; as hysterics, leprosy, &c. Thus, by adding a descriptive epithet to the term affection, most distempers may be expressed. And hence we say febrile affection, cutagons affection, &c. using the word affection synonyneous affection, &c., using the word affection synony-mously with disease.

AFFINITY. (Affinitas, atis, f.; a proximity of relationship.) The term affinity is used indifferently

with attraction. See Attraction.

With attraction. See Attraction.

AFFINITY OF AGGREATION. See Affinity, intermediate.

AFFINITY, APPROPRIATE. See Affinity, intermediate.

AFFINITY OF COMPOUND. See Attraction.

AFFINITY, COMPOUND. When three or more bodes, on account of their mutual affinity, unite and form one homogeneous body, then the affinity is termed compound affinity or attraction: thus, if to a solution of sugar and water be added spirits of wine, these three bodies will form a homogeneous liquid by compound affinity.

AFFINITY, DIVELLENT. See Affinity, quiescent.
AFFINITY, DOUBLE. Double elective attraction.
When two bodies, each consisting of two elementary
parts, come into contact, and are decomposed, so that
their elements become reciprocally united, and pro-

duce two new compound bodies, the decomposition is

then termed decomposition by double affinity: thus, if | we add common salt, which consists of muriatic acid and soda, to nitrate of silver, which is composed of nitric and soon, to intracte cistive, which is composed of mirric acid andoxyde of silver, these two bodies will be decompounded; for the nitric acid unites with the soda, and the oxyde of silver with the nursaira caid, and thus may be obtained two new bodies. The common salt and nitrate of silver therefore mutually decompose each other by what is called double affinity.

Affinity, INTERNEDIATE. Appropriate offinity.
Affinity of an intermedium is, when two substances of different kinds, that show toone another no component affinity, do, by the assistance of a third, combine, and unite into a homogeneous whole: thus, oil and water are substances of different kinds, which, by means of alcali, combine and unite into a homogeneous substance: hence the theory of lixiviums, of washing, &c.

See Attraction.

See Attraction.

Affinity, Quescent. Mr. Kirwan employs the term Quiescent affinity to mark that, by virtue of which, the principle of each compound, decomposed by double allimity, adhere to each other; and Divellent affinity, to distinguish that by which the principles of one body unite and change order with those of the other: thus, sulphate of potash is not com-pletely decomposed by the nitric acid or by lime, when either of these principles is separately presented; but if the nitric acid be combined with lime, this nitrate of lime will decompose the sulphate of potash. In this last case, the affinity of the sulphuric acid with the alcali is weakened by its affinity to the lime. This acid; therefore, is subject to two affinities, the one which retains it to the alcali, called quiescent, and the other which attracts it toward the lime, called divellent affinity

AFFINITY, RECIPROCAL. When a compound of two bodies is decomposed by a third, the separated princi-ple being in its turn capable of decomposing the new combination: thus ammonia and magnesia will sepa-

rate each other from muriatic acid.

rate each other from nurrate actu.

Appendix, symple. Single cleative attraction. If a body, consisting of two component parts, be decomposed on the approach of a third, which has a greater affinity with one of those component parts than they have for each other, then the decomposition is termed decomposition by simple 'affinity'. for instance, if pure potash be added to a combination of nitric acid and lime, the union which existed between these two and lime, the union which existed between these two bodies will cease, because the porash combines with the nitric acid, and the lime, being disengaged, is precipitated. The reason is, that the nitric acid has a greater affinity for the pure potash than for the lime, therefore it deserts the lime, to combine with the potable. therefore it deserts the line, to combine with the potash. When two bodies only enter into chemical union, the affinity, which was the cause of it, is also termed simple or single electrice attraction; thus the solution of sugar and water is produced by simple affinity, because there are but two hodies.

AFFLATUS. (From ad and flare, to blow.) A vapour or blast. A species of erysipelas, which attacks people suddenly, so named upon the erroneous supposition that it was produced by some unwholesome wind blowing on the part.

AFFUSION. (Afflusia; from ad, and fundo, to pour upon.) Pouring a liquor upon something. The affusion of cold water, or pouring two or three quarts

AFFUSION. (Affusta; Irom ad, and fundo, to pour upon.) Pouring a liquor upon something. The affusion of cold water, or pouring two or three quarts on the patient's head and body, is sometimes practised by physicians, but lately introduced by Dr. Currie, of Liverpoo, in the treatment of typhus fever, and which appears to possess a uniformity of success, which we look for in vain in almost any other branch of medical practice. The remedy consists merely in placing the resistent in a buthing the resistence. patient in a bathing-tub, or other convenient vessel, and pouring a pailful of cold water upon his body; after which he is wiped dry, and again put to bed. should be noted,

should be noted.

First, That it is the low contagious fever in which the cold affusion is to be employed: the first symptoms of which are a dull headache, with restlessness and shivering; pains in the back, and all over the body, the tongue foul, with great prostration of strength; the headache becoming more acute, the heat of the body, by the thermometer, 102° to 105°, or more; general restlessness, increasing to delirium, particularly in the night.

Secondly, That it is in the early stage of the disease we must employ the remedy; and generally in the state of the greatest heat and exacerbation.

of the greatest heat and exacerbation.

Thirdly, It is affusion, not immersion, that must be

Since the first publication of Dr. Currie's work, the practice of affusion has been extended throughout England; and its efficacy has been established in some stages of the disease, from which the author had origin ally proscribed the practice of it. One of the cautionary injunctions which had been given for the affusion of cold water in fever, was never to employ it in cases where the patient had a sense of challeness upon him, even if the thermometer, applied to the trunk of the body, indicated a preternatural degree of heat. In his last edition of Reports, however, Dr. Currie has given the particulars of a case of this kind, in which the cold affusion was so managed as to produce a successful

event.

In fevers arising from, or aecompanied by, topical inflammation, his experience does not justify the use of cold affusion; though, in a great variety of these cases, the warm affusion may be used with advantage. "And," says he, "though I have used the cold affusion in some instances, so late as the twelfth or four-teenth day of contagious fever, with safety and success, yet it can only be employed, at this advanced period, in the instances in which the heat keeps up steadily above the natural standard, and the respiration continues free. In such cases, I have seen it appease agitation and restlessness, dissipate delirium, and, as it were, snatch the patient from impending dissolution. But it is in the carly stages of fever (let me again repeat) that it ought always to be employed, if solution. But it is in the early stages of fever (let me again repeat) that it ought always to be employed, if possible; an where, without any regard to the heat of the patient, it is had recourse to in the last stage of fever, after every other remedy has failed, and the case appears desperate, (of which I have heard several instances,) can it appear surprising that the issue should sometimes be unfavourable? "Numerous somemications for

Numerous communications from various practitioners, in the West and East Indies, in Egypt and America, also show the efficacy of affusion in the raging

rica, also show the enticacy of artiston in the raging fevers of hot countries. AFORA. (From a, priv. and fores, a door.) Having a door or valve: applied to plants, the seed vessel of which is not furnished with a valvule.

which is not furnished with a valvule.

AFTER-BIRTH. See Placenta.

A'GA CRETENSIOM. The small Spanish milk-thistle.

AGALACTA'TIO. See Agalactia.

AGALA'CTIA. (Aγαλακ'ια; from a, priv. and γαλα, milk.) Agalactis; Agalactio; Agalactatio. A defect of milk in childbirth.

AGALA'CTOS. (From a, priv. and γαλα, milk.)

An epithet given to women who have no milk when they lie in.

they lie in. AGALA'XIS. See Agalactia. AGALLOCHUM. See Lignum aloes. AGALLOCHUM VEROM. See Lignum aloes. AGALLOCHUM VEROM. See Lignum ale AGALLIGUM. See Lignum aloes. AGALLIGUM. See Lignum aloes. AGARCO. See Lignum aloes. AGARCO. See Lignum ayapikos, the

AGARICOI DES. (From αγαρικος, the agaric, and ειλος, resemblance.) A species of fungus like the

agant.

AGARICUS. Agaric. The name of a genus of plants in the Linnean system. Class, Cryptogamic; Order, Fungi. The plants of this genus appear to approach nearer to the nature of animal matter than any other productions of the vegetable kingdom, as, beside hydrogen, oxygen, and carbon, they contain a considerable portion of nitrogen, and yield ammonia by distillation. Prof. Proust has likewise discovered in

thation. Prof. Proust has likewise discovered in them the benzoic acid, and phosphate of lime. The mushrooms, remarkable for the quickness of their growth and decay, as well as for the factor attending their spontaneous decomposition, were unaccountably neglected by analytical chemists, though capable of rewarding their trouble, as is exinced by the recent investigations and discoveries of Messrs. Vauquein and Braconnot. The insoluble fungous portion of the mushroom, thougheit resembles woody fibre in some respects, yet being less soluble than it in alcalies, and visibline a nutritive food, its evidently a peculiar provided in a nutritive food, its evidently a peculiar prorespects, yet being less soluble than it in alcalies, and yielding a nutritive food, is evidently a peculiar product, to which accordingly the name of fungin has been given. Two new vegetable acids, the boletic and fungic, were also fruits of these researches.

The six following species have been submitted to chemical analysis; the results are affixed to each. 1.

Agaricus campestris, an ordinary article of foo lyzed by Vauquelin, gave the following constituents 1. Adipocire. On expressing the juice of the agaric, and subjecting the remainder to the action of boiling alkohol, a fatty matter is extracted, which falls down in white flakes as the alkohol cools. It has a dirty in white flakes as the alkohol cools. It has a dirty white colour; a fatty feel, like spermaceti; and, exposed to heat, soon melts, and then exhales the odour of grease. 2. An oily matter 3. Vegetable albumen. 4. The sugar of mushrooms. 5. An animal matter soluble in water and alkohol: on being heated, it evolves the odour of roasting meat, like osmazome. 6. An animal matter not soluble in alkohol. 7. Fungin. Acetate of potash.

2. Agaricus volvaceus afforded Braconnot fungin, gelatin, vegetable albumen, much phosphate of potash, some acetate of potash, sugar of mushrooms, a brown oil, adipocire, wax, a very fugacious deleterious matter, uncombined acid, supposed to be the acetic, benzoic acid, muriate of potash, and a deal of water; in all

14 ingredients.

A figarious ceris, or piperatus, was found by Braconnot, after a minute analysis, to contain nearly the
same ingredients as the preceding, without the wax
and benzoic acid, but with more adipocire.

A figarious stypticus. From twenty parts of this
Braconnot obtained of resin and adipocire 1.8, fungin

16.7, of an unknown gelatinous substance, a potash

salt, and a fugacious acrid principle, 1.5.

Agaricus bulbosus, was examined by Vauquelin, who found the following constituents: an animal matter insoluble in alkohol; osmazome; a soft fatty matter of a yellow colour and acrid taste; an acid sall, (not a phosphate.) The insoluble substance of the agaric yielded an acid by distillation.

6. Agaricus theogolus. In this, Vauquelin found sugar of mushrooms; osmazome; a bitter aerid fatty matter; an animal matter not soluble in alkohol; a salt containing a vegetable acid.

AGARICUS ALBUS. See Boletus laricis.

AGARICUS CAMPESTRIS. There are several species of the agaric, which go by the term mushroom; as the Agaricus chantarellus, deliciosus, violaceus, &c.; but that which is eaten in this country is the Agaricus campestris of Linneus. Similar to it in quality is the champignon, or Agaricus pratensis. Broiled with salt and pepper, or stewed with cream and some aromatic, they are extremely delicious, and, if not eaten to excess, salubrious. Great care should be taken to ascertain that they are the true fungus, and not those of a poisonous nature. Catchup is made by throwing salt on mushrooms, which causes them to part with their bites. their juice.

AGARICUS CHANTARELLUS. A species of fungus, esteemed a delicacy by the French. Broiled with salt and pepper, it has much the flavour of a roasted cockle.

AGARICUS CHIRURGORUM. See Boletus igniarius. AGARICUS CINNAMOMEUS. Brown mushroom. This species of agaric is of a pleasant smell. When broiled, it gives a good flavour.

AGARICUS DELICIOSUS. This fungus, well seasoned. and then broiled, has the exact flavour of a roasted muscle. It is in season in September.

AGARICUS MINERALIS A mineral; the mountain milk, or mountain meal, of the Germans. It is one of the purest of the native carbonates of lime, found chiefly in the clefts of rocks, and at the bottom of some lakes, in a loose or semi-indurated form. It has been used internally in hæmorrhages, strangury, gravel, and dysenteries; and externally as an application to old ulcers, and weak and watery eyes.

It is composed of very minute particles, feebly cohering, fine or soft to the touch, and soiling the fingers. Its texture is spongy, and hence it usually swims for a moment when placed on water. Its colour is white, either pure, or tinged with yellow, &c. It is a very pure carbonate of line.

a very pure carbonate of lime.

Agaric mineral undoubtedly proceeds from the gradual disintegration of other varieties of carbonate of lime, and is deposited from water in the cavities or

Var. 1. Fossil Farina. This variety differs but Var.1. Possil rarina. This variety unless but little from that just described, and has probably a similar origin. It appears in thin, white crusts, light as cotton, and very easily reducible to powder. These crusts are attached to the lateral or lower surfaces of beds of shell, limestone, &c.—Cleav. Min. A.]

AGARIOUS MUSCARIUS. Bug agaric; so called from a known virtue in destroying bugs. This reddish its known virtue in destroying bugs. This reddish fungus is the Agaricus—stepitatus, lamellis demidiates Influes is the Symeus-st-pitatics, (and its aumittate solutions, stipite voltate, apice dilatate, basi ovate, of Linneus. It is not much known in this country. Haller relates that six persons of Lithmania perished at one time, by eating this kind of mushroom; and that in others it has caused delirium. The following account from Orfila, of the effects of this species in the animal company, integrating Samuel Fromth account from Oring of the effects of this species in the animal conomy, is interesting. Several French soldiers ate, at two leagues from Polosck, in Russia, mushrooms of the above kind. Four of them, of a robust constitution, who conceived themselves proof against the consequences under which their feebler companions were beginning to suffer, refused obsti-nately to take an emetic. In the evening, the following symptoms appeared. Anxiety, sense of suffocation, ardent thirst, intense griping pains, a small and irregular pulse, universal cold sweats, changed expression of countenance, violet tint of the nose and lips, general treubling, fetild stools. These symptoms becoming worse, they were carried to the hospital. Coldness and livid colour of the limbs, a dreafful delirium, and acute pains, accompanied them to the last moment. One of them sunk a few hours after his admission into the hospital; the three others had the same fate in the course of the night. On opening their dead bodies, the stomach and intestines displayed large spots of inflammation and gangrene; and putrefaction seemed advancing very rapidly. It is employed externally to strumous phagedenic, and fistulous ulcers, as an escha-

AGARICUS PIPERATUS. The plant thus named by AGARICUS PIPERATUS. The plant thus named by Linnaeus, is the pepper nushroom; also called pepper agaric. It is the Fungus piperatus albus, lactor-sugge turgens of Ray. Fungus albus acris. When treely taken, fatal consequences are related by several writers to have been the result. When this vegetable has even lost its acrid juice by drying, its caustic quality still remains.

Agartus pratensis. The champignon of Hud-son's Flora Anglica. This plant has but little smell, and is rather dry, yet when broiled and stewed, com-municates a good flavour.

AGARICUS VIOLACEUS. Violet mushroom, fungus requires much broiling, but when sufficiently done and seasoned, it is as delicious as an oyster. Hudson's bulbosns is only a variety of this.

AGATE. A mineral found chiefly in Siberia and Saxony, which consists of chalcedony blended with variable proportions of jasper, amethyst, quartz, opal,

heliotrope, and carnelion.

[This name is usually applied to an aggregate of certain quartzy or siliceous substances, intimately combined, possessing a great degree of hardness, a combined, possessing a great degree of hardness, a compact and fine texture, agreeable colours, vaniously arranged and intermixed, and susceptible of a good polish. The minerals which most frequently enter into the composition of agates, are common chalcedony, carnelion, and jasper, to which are sometimes added flint, hornstone, common quartz, amethyst, heliotrope, and opal. The chalcedony, however, is the most common and abundant ingredient, and may frequently be considered the base of the agate; in fact quently be considered the base of the agate; in fact, some agates are composed entirely of chalcedony dit ferently coloured. In most cases, only two or three of the aforementioned ingredients occur in the same agate; but, though variously intermixed, each ingredient usually remains perfectly distinct.

Agates exhibit the colours already mentioned, while describing the simple minerals which compose them. But these colours are often so arranged, as to present the resemblance of some well-known object. Hence arises much of the beauty of agates; and hence also most of the distinctive names they have received in most of the distinctive names they have received in the arts. Of these a few will be mentioned. I. Only again. 2. Eyed agate. 3. Dotted agate. 4. Moss agate. 5. Dendritic agate. 6. Spotted or figured agate. 7. Breecia agate. 8. Fortification agate. 9. Ribband agate, &c. Clean. Min. A.]

[Acatized wood. This substance appears to have the control of t

[AGATIZED WOOD. This substance appears to have been produced by the process common y called the petrifaction of wood. It is essentially composed of sificacous earth, which it is highly probable has been gradually deposted, as the vegetable matter was decomposed and removed. Both its form and texture indicatents origin. Thus it presents more or less distinctly,

the form of the trunk, branches, roots, or knots, which once belonged to the vegetable. The surface is rough once belonged to the vegetable. The surface is rough or longitudinally striated. Its texture is fibrous, and the fibres often intertwined like those of wood. Its longitudinal fracture is usually fibrous or splintery, and

longitudinal tracture is usually hurous or spuntery, audits cross fracture imperfectly conchoidal, with little or no lustre.—Cleav. Min.

Againzed wood has been found in various parts of the United States. We have seen in the possession of Dr. Mitchill some remarkable specimens of siliceous

petrifactions or agatized madrepores, echini, &c. from the West-Indian islands. A.] AGE. Ætas. The ancients reckoned six stages of life

Pueritia, childhood, which is to the fifth year

of our age.

2. Adolescentia, youth, reckoned to the eighteenth, and youth properly so called, to the twenty-fifth year.

3. Juventus, reckoned from the twenty-fifth to the thirty-fifth year.

Virilis etas, manhood, from the thirty-fifth to

the fiftieth year.

the fixen year.

5. Senectus, old age, from fifty to sixty.

6. Crepita stas, decrepit age, which ends in death.

AGENE SIA. (Ayenpus; from a, neg. yernaw, or

yrvogas, to beget.) Male sterlility, or impotency in

man. A term employed by Vogel and Good. See Nosology.

A'GER. (Ager, gri. m.; from aypos.) The com-

mon earth or soil.

AGE NATURÆ. The womb.
AGE RATUM. (Αγηρα ζον; from a, priv. and γηρας, senectus: never old, evergreen; because its flowers preserve their beauty a long time.) See Achillaa

ageratum. AGEU'STIA. AGEUSTIA. (From a, neg. and γενομαι, gusto, to taste) Agheustia; Apogeustia; Apogeustia. Apogeustia defect or loss of taste. A genus of disease in the class locales, and order dysæsthesiæ of Cullen. The causes are fever or palsy, whence he forms two species: the latter he calls organic, arising from some affection in the membrane of the tongue, by which relishing things, or those which have some taste, are prevented from coming into contact with the nerves; the other atonic,

coming into contact will like herves; the other atome, arising without any affection of the tongue.

AGGLUTINA'NTIA. Adhesive medicines which heat by causing the parts to stick together.

AGGLUTINA'TION. (Agglutinatia; from ad and glutino, to glue together.) The adhesive union or sticking together of substances.

AGGLUTI'TIO. Obstruction in the exophagus, or a

difficulty in swallowing.

AGGREGATE. (Aggregatus; from aggrego, to assemble together.) Aggregated or added together. I. When bodies of the same kind are united, the only consequence is, that one larger body is produced. In this case, the united mass is called an aggregate, and this case, the united mass is chited an aggregate, and does not differ in its chemical properties from the hodies from which it was originally made. Elementary writers call the smallest parts into which an aggregate can be divided without destroying its chemical properties, integrant parts. Thus the integrant parts of can be divined whom destroying its element pro-porties, integrant parts. Thus the integrant parts of common salt are the smallest parts which can be con-ceived to remain without change; and beyond these, any further subdivision cannot be made without developing the component parts, namely, the alcali and the acid; which are still further resolvable into their constituent principles

A term applied to glands, flowers, gems, &c. aggregate flower is one which consists of a number of smaller flowers or fructifications, collected into a head by means of some part common to them all. In this view aggregate flowers are opposed to simple flowers which have a single fructification, complete in its parts, nine of which are common to many flowers.

AGGREGATE GEM. A term applied in botany when two, three, or even more genus appear at the same

AGGREGATE GLANDS. (From aggrego, to assemble gether.) Glandulæ aggregatæ. An assemblage of together.) Glandulæ aggregatæ. An assemblage of glands, as those on some parts of the internal surface of the intestines

AGGREGATE PEDUNCIE. Clustered flower stalks, so called when several grow together, as in verbascum nigrum.

Aggregation, affinity of. See Attraction. Aggregation, attraction of. See Attraction. AGGREGATUS. See Aggregate.
AGHEU STIA. See Aggasta.
AGITATO'RIA. Convulsive diseases.
AGLACTA'TIO. Defect of milk.
AGLA'XIS. Defect of milk.
AGLA'MS. AGLA'MS. Defect of milk.

2. A white speck on the eye. See Ægides. A'GNACAL. A tree, which, according to Ray, grows about the isthmus of Darien, and resembles a peartree, the fruit of which is a great provocative to venery.

tree, the fruit of which is a great provocative to venery. Agnh'TA. See Adnata tunica.

AGNI'NA. (Agnina; from agnus, a lamb.) Astius calls one of the membranes which involve the fectus by the name of membrana agnina, which he derives from its tenderness. See Amnios.

AGNOI'A. (From a, priv. and γινωσκώ, to know.)

Forgetfulness.
A'GNUS. A lamb.

AGNUS CASTUS. (Called agnus, from the down upon its surface, which resembles that upon a lamb's

upon its surface, which resembles that upon a lamb's skin; and castus, because the chaste matrons, at the feasts of Ceres, strewed them upon their beds and lay upon them.) See Vitex agrus castus.

[AGNUS TARTARICUS: This is a vegetable production, and belongs to the ferns. It is the root of the Parly and the Certain of the Certain C Polypodium Barometz, belonging to the class Crypto-gamia, and order Felices of Linnæus. The root of this gamia, and order Felices of Linnæus. The root of this plant is covered with a sort of orange-coloured wood among the radicals, and has a peculiar oblong figure, which, when put in a proper position, has a remote resemblance to a sheep. When pulled up by the roots, the stipes of the leaves, except four, are cut away, and this Chinese juggle has had great sway in the world, and has deceived even Dr. Darwin, who has figured and noticed it in his Botanic Garden as a plant growing in the form of a naimal— Watter form With!!! ing in the form of an animal .- Notes from Mitchill's A.]

AGOMPHI'ASIS. A looseness of the teeth.

A'GONE. (Aγονη; from a, neg. and γόνος, offspring: so called because it was supposed to cause barrenness.)
Henbane. See Hyosciamus niger.
AGO'NIA. Sterility, impotence, agony.

Agony A. Sterniny, impotence, agony. Agony Structure. (Αγωνιζικον; from αγωνιαω, to struggle.) A term used by ancient physicians to signify water extremely cold, which was directed to be given in large quantities, in acute erysipelatous fevers, with a view of overpowering or struggling with the febrile heat of the blood.

A GONOS. (From a, priv. and yovos, or youn, an offspring.) Barren. Hippocrates calls those women so who have no children, though they might have if the impediment were removed.

AGRE'STIS. 1. Pertaining to the field; the trivial name of many plants. 2. In the works of some old writers, it expresses an

ungovernable malignity in a disease.

A'GRIA. 1. A name of the Ilex aquifolium, or com.

mon holly

2. A malignant pustule, of which the ancient sur geons, and particularly Celsus, describe two sorts; one which has been so called, is small, and casts a roughness or redness over the skin, slightly corroding it; smooth about its centre; spreads slowly; and is of a round figure. The second ulcerates, with a violent redness and corrosion, so as to make the hair fall off; it is of an unequal form, and turns leprous.

AGRIA'MPELOS. (From αγριος, wild, and αμπελος, a vine.) The wild vine, or white bryony. See

λος, a vine.) The wild vine, or white bryony. See Bryonia.

AGRIELÆ'A. (From αγριος, wild, and ελαια, the olive-tree.) The oleaster, or wild olive.

AGRIFOLHIM. (From aκε, a prickle, and φυλλόν, a leaf.) The holly-tree. Which should rather be called acifolium, from its prickly leaves.

AGRIMO'NIA. (Agrimonia, α, f.; from αγρος, a field, and μονος, alone: so named from its being the chief of all wild herbs.) Agrimony.

1. The name of a genus of plants in the Linnæan system. Class, Dodecandria; Order, Digynia.

2. The pharmacopolal name of the common agrimony. See Agrimonia eupatoria.

Agrimonia Eupatoria.

Agrimonia supatoria.

Agrimonia supatoria. undique serratis, omnibus minutis interstinctis, fructibus hispidis of Linneus. It is common in fields about hedges and shady places, flowering in June and July. It has been principally regarded in the character of a It has been principally regarded in the character of a mild astringent and corroborant, and many authors recommend it as a deobstruent, especially in hepatic and other visceral obstructions. Chomel relates two and other visceral obstactions. Cases where the liver was much enlarged and indurated. It has been used with advantage in hemorrhagic affections, and to give tone to a lax and weak state of the solids. tone to a lax and weak state of the solids. In culancous disorders, particularly in scabies, we have been told that it manifests great efficacy. For this purpose it was given infused with liquorice in the form of tea; but, according to Alston, it should be always exhibited in the state of powder. It is best used while fresh, and In the state of powder. It is best used while fresh, and the tops, before the flowers are formed, possess the most virtue. Cullen observes that the agrimony has some astringent powers, but they are feeble; and pays little attention to what has been said in its favour. AGRIMONY, See Agrimonia.

Agrimony hemp. See Bidens tripartita.

AGRIOCA'RDAMUM. (From αγρος, wild, and καρόμρον, the nasturtium.) Sciatica cresses, or wild garden cress.

AGRIOCA'STANUM. (From aypros, wild, and kagarov, the clestnut.) Earth of pig-nut. See Bu-See Bu-

κας αγου, the crestinut.) Earth of pig-nut. See Bunium bulber-castanum.

AGRIOCI NARA. (From αγριος, wild, and κιναρα,
artichoke.) Wild artichoke; not so good as the cultivated for any purpose. See Cinara scotymus.

AGRIOCOCCIME LA. (From αγριος, wild, κοκκος,
a berry, and μηλεα, an apple-tree.) The Prunus spinosa of Linnaeus.

AGRIOME'LA. The crab-apple.

A'GRION. Agriophyllon. The peucedanum silaus, or hog's fennel.

or nog stennel.

AGRIOPASTINA'CA. (From ayoros, wild, and pastinaca, a carrot.) Wild carrot, or parsnip.

AGRIOPHY'LLON. See Agricon.

AGRIORI'GANUM. (From ayoros, wild, and optyayor, marjoram.) Wild marjoram. See Origanum

AGRIOSELI'NUM. (From aγριος, wild, and σελι-ον, parsley.) Wild parsley. Lee Smyrnium olusavov, parsley..)

AGRIOSTA'RI. (From αγριος, wild, and 5αις, heat.) Field corn, a species of Triticum. AGRIPA'LMA. (From αγριος, wild, and παλμα, a alm-tree.) Agripalma gallis. The herb motherwheat.) nalm-tree.)

wort, or wild-palm.

AGRIPA'LMA GALLIS. See Agripalma.
AGRIPPÆ. Those children which are born with AGRIFYA. Those children which are born with their feet foremost are so called, because that was said to be the case with Agrippa the Roman, who was named ab agropartu, from his difficult birth.

A'GRIUM. An impuse sort of natron. The purer sort was called halmyrhaga.

AGROSTEMMA. (Αγρον ςεμμα, the garland of the field.) The name of a genus of plants. Class De-

candria; Order, Pentagynia. Cockle.
AGROSTEMMA GITHAGO. This plant has been n. Acrostemma Githago. This peatt has been called Nigellastrum; Pseudo melanthium; Lychnoides segetum major; Githago; Nigella officinarum; Lychnoides segetum. Cockle. It has no particular virtues, and is fallen into disuse.

AGROSTIS. (From ayoos, a field.) The name of a genus of plants. Class, Triandria; Order, Digynia.

Bentgrass.

AGRU'MINA. Leeks; wild onions.

AGRU'PNIA. (From a, priv. and υπνος, sleep.)

Watchfulness; sleeplessness. The name of a genus in Good's Nosology. See Nosology.

AGRYPNOCO'MA. (From αγρυπνος, without sleep, and κομα, a lelhargy.) A lethargic kind of watchfulness, in which the patient is stupidly drowsy, and yet cannot sleep. cannot sleep.

AGUE. See Febris Intermittens

Ague cake. The popular name for a hard tumovr, most probably the spleen on the left side of the belly, lower than the false ribs in the region of the spleen, said to be the effect of intermittent fevers. However frequent it might have been formerly, it is now very rare, and although then said to be owing to the use of bark, it is now less frequent since the bark has been

generally employed.

Ague drop. A medicine sold for the cure of agues, composed of arsenite of potassa in solution in water.

The regular substitute for the quack medicine called the tasteless ague drop, which has cured thousands of that complaint, is the liquor arsenicalis, or Fowler's arsenical solution.

assenical solution.

Ague-free. A name given by some to sassafras, on account of its supposed febrituge virtue.

AGUSTINE. (From a, priv. and yuga, taste, that is tasteless). Augustina. A new earth discovered in the Saxon beryl, or beryl of Georgien Stadt, (a stone greatly resembling the beryl of Siberia) by Professor Tromsdorff, of Erfurth, in Germany, to which he has given the name of agustine, on account of the property of forming salis which are nearly destitute of faste. This earth is white and insipid: when moistened with water, it is somewhat ductile, but is not soluble in that fluid. Exposed to a violent heat, it becomes extremely hard, but acquires no taste. It combines with acids, forming salts which have little or no taste. It does not combine either in the humid or dry way with alcalies, or with their carbonates. It retains taste. It does not commune ethier in the number of ary way with alcalies, or with their carbonates. It retains carbonic acid but feebly. It dissolves in acids equally well after having been hardened by exposure to heat, as when newly precipitated. With sulphuric acid it forms a salt which is inspired, and scarcely soluble, but an excess of acid renders it soluble, and capable of crystallizing in stars. With an excess of phosphoric acid it forms a very soluble salt. With nitrous acid it forms a salt scarcely soluble.

AGUTTGUEPOO'BI BRAZILIENSIS. An Indian name the arrow-root. See Maranta.

of the arrow-root.

of the arrow-root. See Maranta. [AIGUE MARINE, called by some aqua marina; one of the precious stones which has been found in various parts of the United States. It is a name sometimes employed to designate the beryl. A.]

AIMATERA A black billion.

employed to designate the beryl. A.J. AIMATEI'A. A black bilious and blood-like discharge from the bowels.

AIMORRHIC'A. See Hamorrhagia.

AIMORRHOIS. See Hamorrhais.

AIPATHEI'A. (From act, always, and wabos, a

disease.) Diseases of long continuance.
Al'ri. Aipima coxera. Aipipoca.
for Cassada. See Jatropha manihot. Indian words

AIR. This term was, till lately, used as the generic name for such invisible and exceedingly rare fluids as possess a very high degree of elasticity, and are not possess a very high degree of elasticity, and are not condensible into the liquid state by any degree of cold litherto produced; but as this term is commonly employed to signify that compound of actiform fluids which constitutes our atmosphere, it has been deemed advisable to restrict it to this signification, and to employ as the generic term the word GAs, for the different kinds of air, except what relates to our atmospheric

compound. AIR, ATMOSPHERIC. "The immense mass of permanently elastic fluid which surrounds the globe we in-habit," says Dr. Ure, "must consist of a assemblage of every kind of air which can be formed by the various bodies that compose its surface. Most of these, however, are absorbed by water; a number of them are decomposed by combination with each other; and some of them are seldom disengaged in considerable quantities by the processes of nature. Hence it is that the lower atmosphere consists chiefly of oxygen and nitrogen, together with moisture and the occasional vapours or exhalitions of bodies. The upper atmosphere seems to be composed of a large proportion of budges as a facility of budges and the facilit upper atmosphere seems to be composed of a large pro-portion of hydrogen, a fluid of so much less specific gravity than any other, that it must naturally ascend to the highest place, where, being occasionally set on fire by electricity, it appears to be the cause of the aurora borealis and fire-balls. It may easily be understood, that this will only happen on the confines of the respective masses of common atmospherical air, and of the inflammable air; that the combustion will extend progressively, though rapidly, in flashings from the place where it commences; and that when by any means a stream of inflammable air, in its progress to-ward the upper atmosphere, is set on fire at one end, ward the upper admosphere, is set on the at one flat, its ignition may be much more rapid than what happens higher up, where oxygen is wanting, and at the same time more definite in its figure and progression,

same time more definite in us figure and progression, so as to form the appearance of a fire-ball.

That the air of the atmosphere is so transparent as to be invisible except by the blue colour it reflects when in very large massee, as is seen in the sky or region above us, or in viewing extensive landscapes; that it is without smell, except that of electricity,

which it sometimes very manifestly exhibits; altogether | animal life but oxygen, or a mixture which contains without taste, and impalpable; not condensible by any degree of cold into the dense fluid state, though easily changing its dimensions with its temperature; that it gravitates and is highly elastic; are among the nume-rous observations and discoveries which do honour to rous observations and discoveries which to question the sagacity of the philosophers of the seventeenth century. They likewise knew that this fluid is indispensably necessary to combustion, but no one, except the great, though neglected, John Mayow, appears to have formed any proper notion of its manner of activate that the transfer.

ing in that process.

The air of the atmosphere, like other fluids, appears to be capable of holding bodies in solution. up water in considerable quantities, with a diminution of its own specific gravity: from which circumstance, as well as from the consideration that water rises very plentifully in the vaporous state in vocuo, it seems probable, that the air suspends vapour, not so much by a real solution, as by keeping its particles asunder, and preventing their condensation. Water likewise dis-solves or absorbs air.

Mere heating or cooling does not affect the chemical properties of atmospherical air; but actual combus-tion, or any process of the same nature, combines its oxygen, and leaves its nitrogen separate. Whenever a process of this kind is carried on in a vessel contain ing atmospherical air, which is enclosed either by inverting the vessel over mercury, or by stopping its aperture in a proper manner, it is found that the process ceases after a certain time; and that the remaining air (if a combustible body capable of solidifying the oxygen, such as phosphorus, have been employed,) has lost about a fifth part of its volume, and is of such a nature as to be incapable of maintaining any combustion for a second time, or of supporting the life of ani-From these experiments it is clear, that one of the following deductions must be true:—i. The combustible body has emitted some principle, which, by combining with the air, has rendered it unfit for the purpose of further combustion; or, 2. It has absorbed part of the air which was fit for that purpose, and has part of the air winef was ht for that purpose, and has left a residue of a different nature; or, 3. Both events have happened; namely, that the pure part of the air has been absorbed, and a principal has been emitted, which has changed the original properties of the re-

The facts must clear up these theories. induction cannot be true, because the residual air is not only of less bulk, but of less specific gravity, than The air cannot therefore have received much as it has lost. The second is the doctrine of the philosophers who deny the existence of philogiston, or a principle of inflammability; and the third must be adopted by those who maintain that such a principle escapes from bodies during combastion. This residue was called phlogisticated air, in consequence of such

an opinion

In the opinion that inflammable air is the phlogiston. it is not necessary to reject the second inference that the air has been no otherwise changed than by the mere subtraction of one of its principles; for the pure or vital part of the air may unite with inflammable air or vital part of the air may unite with inflammable air supposed to exist in a fixed state in the combustible body; and if the product of this union-still continues fixed, it is evident, that the residue of the air, after combustion, will be the same as it would have been if the vital part had been absorbed by any other fixed body. Or, if the vital air be absorbed while inflammable air or phlogiston is disengaged, and unites with the aëriform residue, his residue will not be heavier than before, unless the inflammable air it has seized exceeds in weight the vital air it has lost; and gained exceeds in weight the vital air it has lost; and if the inflammable air falls short of that weight, the residue will be lighter.

These theories it was necessary to mention; but it These theories it was necessary to mention; but it has been sufficiently proved by various experiments, that combustible bodies take oxygen from the atmosphere, and leave nitrogen; and that when these two fluids are again mixed in due proportions, they compose a mixture not differing from atmospherical air.

The respiration of animals produces the same effect on atmospherical air as combustion does, and their constant heat appears to be an effect of the same atture. When an animal is included in a limited

rousian near appears to be an exact of the same nature. When an animal is included in a limited quantity of atmospherical air, it dies as soon as the oxygen is consumed; and no other air will maintain

it. Pure oxygen maintains the life of animals much longer than atmospherical air, bulk for bulk.

It is to be particularly observed, however, that, in many cases of combustion, the oxygen of the arr, in combining with the combustible body, produces a combining with the combinative body, produces a compound, not solid, or liquid, but actiorm. The residual air will therefore be a mixture of the nitrogen of the atmosphere with the consumed oxygen, converted into another gas. Thus, in burning charcoal, the carbonic acid gas generated, mixes with the residual nitrogen, and makes up exactly, when the effect of heat ceases, the bulk of the original air. The breathing of animals, in like manner, changes the oxy-gen into carbonic acid gas, without altering the atmos-pherical values. pherical volume.

There are many provisions in nature by which the proportion of oxygen in the atmosphere, which is continually consumed in respiration and combustion, is again restored to that fluid. In fact there appears, as again restored to that fluid. In fact there appears, as far asam estimate can be formed of the great and ge-neral operations of nature, to be at least as great an emission of expern as is sufficient to keep the general mass of the atmosphere at the same degue of purity. Thus, in volcanic cruptions, there seems to be at least as much oxygen emitted or extricated by fire from various minerals, as is sufficient to maintain the combustion, and perhaps even to meliorate the atmosphere. And in the bodies of plants and animals, which appear in a great measure to derive their sustenance and angmentation from the atmosphere and its contents, it is found that a large proportion of nitrogen exists. plants emit oxygen in the sunshine, from which it is highly probable that they imbibe and decompose the air of the atmosphere, retaining carbon, and ciniting the vital part. Lastly, if to this we add the decomposition of water, there will be numerous occasions in which this fluid with supply us with disengaged oxygen; while, by a very rational supposition, its hydrogen may be considered as having entered into the bodies of plants for the formation of eils, sugars, mucilages, &c., from which it may be again extricated.

To determine the respirability or purity of air, it is evident that recourse must be had to its comparative

efficacy in maintaining combustion, or some other

equivalent process.

From the latest and most accurate experiments, the proportion of oxygen in atmospheric air is by measure about 21 per cent.; and it appears to be very nearly the same, whether it be in this country or on the coast of Guinea, on low plains or lofty mountains, or even at the height of 7250 yards above the level of the sea. as ascertained by Gay Lussac, in his aerial voyage in September, 1805. The remainder of the air is nitrogen, with a small portion of aqueous vapour, amount-

gen, with a small portion of aqueous vapour, amounting to about one per cent, in the driest weather, and a still less portion of carbonic acid, not exceeding a thousandth part of the whole.

As oxygen and nitrogen differ in specific gravity in the proportion of 135 to 121, according to Kirwan, and of 139 to 120, according to Davy, it has been presumed, that the oxygen would be more abundant in the lower regious, and the nitrogen in the higher, if they constituted a mere mechanical mixture which the lower regions, and the introgen in the nighter, it they constituted a mere mechanical mixture, which appears contrary to the fact. On the other hand, it has been urged, that they cannot be in the state of chemical combination, because they both retain their chemical communation, occause they both retain their distinct properties unaltered, and no change of temperature or density takes place on their union. But perhaps it may be said, that, as they have no repugnance to mix with each other, as oil and water have, the continual agitation to which the atmosphere is expected. posed, may be sufficient to prevent two fluids, differposed, may be sameled to prevent two mans, uner-ing not more than oxygen and nitrogen in gravity, from separating by subsidence, though simply mixed. On the contrary, it may be argued, that to say chemical combination cannot take place without producing new properties, which did not exist before in the compoproperties, which did not exist before in the component parts, is merely begging the question; for though this generally appears to be the case, and often in a very striking manner, yet combination does not always produce a change of properties, as appears in M. Biot's experiments with various substances; of which we may instance water, the refraction of which is precisely the mean of that of the oxygen and hydrogen, which are indisputably combined in it.

To get rid of the difficulty, Mr. Dalton of Manchester

framed an ingenious hypothesis, that the particles of different gases neither attract nor repel each other; so that one gase expands by the repulsion of its own particles, without any more interruption from the presence of another gas, than if it were in a vacuum. framed an Ingenious hypothesis, that the particles of different gases neither attract nor repel each other; so that one gas expands by the repulsion of its own particles, without any more interruption from the presence of another gas, than if it were in a vacuum. This would account for the state of atmospheric air, it is true; but it does not agree with certain facts. In the case of the carbonic acid gas in the Grotto del Cano, and over the surface of brewers' vats, why does not this gas expand itself freely upward, if the superincumbent gases do not press upon it! Mr. Dalton himself, too, instances as an argument for his hypothesis, that oxygen and hydrogen gases, when mixed by agitation, do not separate on standing. But why should either oxygen or hydrogen require agitation, to diffuse it through a vacuum, in which, according to Mr. diffuse it through a vacuum, in which, according to Mr.

Dalton, it is placed? The theory of Berthollet appears consistent with all the facts, and sufficient to account for the phenomenon. If two bodies be capable of chemical combinanon. If two bodies be capable of chemical combina-tion, their particles must have a mutual attraction for each other. This attraction, however, may be so op-posed by concomitant circumstances, that it may be diminished in any degree. Thus we know, that the affinity of aggregation may occasion a body to combine affinity of large the which it has a powerful affinity of aggregation may occasion a body to combine slowly with a substance for which it has a powerful affinity, or even entirely prevent its combining with it; the presence of a third substance may equally pre-vent the combination; and so may the absence of a certain quantity of caloric. But in all these cases the attraction of the particles must subsist, though diminist-ed or counteracted by opposing circumstances. Now we know that avegue and mirrogen are causalle of we know that oxygen and nitrogen are capable of combination; their particles, therefore, must attract each other; but in the circumstances in which they are placed in our atmosphere, that attraction is pre vented from exerting itself, to such a degree as to form

are placed in our atmosphere, that attraction is prewented from exerting itself, to such a degree as to torm
them into a chemical compound, though it operates
with sufficient force to prevent their separating by their
difference of specific gravity. Thus the state of the
atmosphere is accounted for, and every difficulty obviated, without any new hypothesis.

The exact specific gravity of atmospherical air,
compared to that of water, its a very nice and important problem. By reducing to 60° Fahr, and to 30
inches of the barometer, the results obtained with great
care by Biot and Arago, the specific gravity of atmospherical air, appears to be 0.001920, water being represented by 1.00000. This relation expressed fractionally is 1-820, or water is 820 times denser than atmospherical air. Mr. Rice, in the 77th and 78th numbers of the Annals of Philosophy, deduces from Sir
George Shuckburgh's experiments 0.00190855 for the
specific gravity of air. This number gives water to
air as 827-437 to 1. If with Mr. Rice we take the cubic
inch of water=252-52 gr., then 100 cubic inches of
air by Biot's experiments will weigh 30-08 grains, and
by Mr. Rice's estimate 30.519. He considers with Dr.
Prout the atmosphere to be a compound of 4 volumes
of nitrogen, and 1 of oxygen; the specific gravity of
the first being to that of the second as 1.1111 to 0.9522.

Hence

0.8 vol. nitr. sp. gr. 0.001166=0.000933 0.2 0xy. 0.001340=0.000268

0.00121514

The numbers are transposed in the Annals of Philosophy by some mistake.

Biot and Arago found the specific gravity of oxygen 

Oxygen, 0.001346379
And 0.8 nitrogen =0.00094587

0.2 oxygen ..... =0.00026927

=0.000934And 0.79 nitrogen ............................... =0.000283

0.001217 A number which approaches very nearly to the result of experiment. Many analogies, it must be confessed, favour Dr. Prout's proportions; but the greater num-

sortes of experiments. We shall then know whether the atmosphere contains in volume 20 or 21 per cent, of oxygen."—Ure's Chem. Iricl.

Air, alcaline. See Ammonia.

Air, arctic. See Nitrogen.

Air, fixed. See Carbonia acid.

Air, fixed. 'See Carbonic acid.
Air, fuoric. See Fluoric acid.
Air, fuoric. See Fluoric acid.
Air, heapitc. See Hydrogen sulphuretted.
Air, heavyinflammable. See Carburetted hydrogen.
Air, marine. See Muriatic acid.
Air, nitrous. See Nitrous.
Air, phlogisticated. See Nitrogen.
Air, phosphoric. See Hydrogen phosphuretted.
Air, sulphureous. See Sulphureous acid.
Air, rial. See Orygen.
AISTHETERUM. (From augulavopus, to perceive.)
The sensorium commune, or common sensory, or seat, or origin of sensation. or origin of sensation

of origin of sensation.

AIX LA CHAPE'ILE. Called Aken by the Germans. A town in the south of France, where there is a sulphureous water, Therma Aquis-granensis, the most striking feature of which, and what is almost peculiar to it, is the unusual quantity of sulphur it conjection. peculiar to it, is the unusual quality or support remains: the whole, however, is so far united to a gaseous basis, as to be entirely volatilized by heat; so that none is left in the residuum after evaporation. In colour it is pellucid, in smell sulphureous, and in taste saline, bitterish, and rather alcaline. The temperature of these waters varies considerably, according to the distance from the source and the spring itself. In the well of the hottest bath, it is, according to Lucas, 1369. well of the holtest bath, it is, according to Lucas, 1369, Monet, 1469; at the fountain where it is drank, it is 1129. This thermal water is much resorted to on the Continent for a variety of complaints. It is found essentially serviceable in the numerous symptoms of disorders in the storach and biliary organs, that follow a life of high indulgence in the luxuries of the table; in nephritic cases, which produce pain in the loins, and thick nuceous urine with difficult micturition. As the heating qualities of this water are as decided as in any of the mineral springs, it should be avoided in any of the inineral springs, it should be avoided in cases of a general inflammatory tendency, in hectic fever and alteration of the lungs; and in a disposition to active harmorrhagy. As a hot bath, this water is even more valuable and more extensively employed than as an internal remedy. The baths of Aix la Chapelle may be said to be more particularly medicated than any other, that we are acquainted with. They possess both temperature of my degree that can be borne; and a strong impregnation with sulphur in its most active forms; and a quantity of alcali, which is sufficient to give it a very off soapy feel, and to render it more detergent than common water. From these circums success the sound of particular entrements are the properties. circumstances, these baths will be found of particular cricumsances, these baths will be found of particular service in stiffness and rigidity of the joints and ligaments, which is left by the inflammation of gout and rheumatism, and in the debility of palsy, where the highest degree of heat which the skin can bear is required. The sulphureous ingredient renders it highly active in the particular and the sulphureous ingredient renders it highly active in the particular and the sulphureous ingredient renders it highly active in the particular and the sulphureous ingredient renders it highly active in the particular and the sulphureous ingredient renders it highly active in the particular and the sulphureous ingredient renders it is a sulphureous ingredient renders at the particular and the sulphureous ingredient renders at the particular and the particula active in almost every cutaneous eruption, and in general in every foulness of the skin; and here the internal use of the water should attend that of the bath. These waters are also much employed in the distressing debility which follows a long course of mercury and excessive salivation. Aken water is one of the tew natural springs that are hot enough to be employed as a vapour bath, without the addition of artificial heat. It is employed in cases in which the hot bath is used; and is found to be a remarkably powerful auximary in curing some of the worst species of cutaneous disorders. With regad to the dose of this water to be begun with, or the degree of heat to bethe in, it is in all cases best to begin with small quantities and low degrees of heat, and gradually increase them, agreeably to the effects and constitution of the patient. The usual time of the year for drinking these waters is from the beginning of May to the middle of June, or from the middle of August to the latter end of September. active in almost every cutaneous eruption, and in ge-

Alzo'οκ. (From att, always, and ξω, to live.) Alzo-μm. 1. An evergreen aquatic plant, like the aloe, said to possess antiscorbutic virtues.

2. The house leek. See Sempervivum tectorum. AIZOUM. See Aizoon

An ancient name of a seed used in the East

as a remedy for the colic

AJUGA. (From a, priv. and guyov, a yoke.) 1.

The name of a genus of plants in the Linnman system.

2. The pharmacopæial name of the creeping bugloss.

See Ajuga pyramidalis.

AJUGA PYRAMIDALIS. Consolida media. Bugula. Upright bugloss. Middle consound. This plant, Ajuga—caule tetragono foliis radicalibus maximis, o. Linnæus, possesses subadstringent and base been recommended. and has been recommended in phthisis, aphtha, and

[AKANTICONE. The name of a mineral synonymous with the epidote of Hauy, pistazit of Werner,

glassy actynolite of Kirwan, &co

Plassip actymotic of Kitwan, &c. A.]
A'KENSIDE, Mars. An English physician, born
at Newcastle-upon-Tyne, in 1721; but more distinguished as a poet, especially for his "Pleasures
of the Imagination." After studying at Edinburgh, and graduating at Leyden, he settled in practice; but though appointed physician to the queen, as well as to St. Thomas's Hospital, he is said not to have been very successful. He died of a putrid fever, in his 49th year. He has left a Dissertation on Dysentery in Latin, admired for its elegance; and several small Tracts in the Philosophical and London Medical

Transactions.
AL. The Arabian article, which signifies the; it is applied to a word by way of eminence, as the Greek a applied to a word by way of eminence, as the Greek a is. The Easterns express the superlative by adding God thereto, as the mountain of God, for the highest mountain; and it is probable that Al relates to the word Alla, God: so Alchemy, may be the chemistry of God, or the most exalted perfection of chemical

Science.

A'LA. 1. The wing of a bird.

2. The arm-pit, so called because it answers to the pit under the wing of a bird.

3. An accidental part of the seed of a plant; consisting of a membraneous prolongation from the side of the seed, and distinguished by the number into Semina monoteringia: one-winged, as in Bignonia. Dipterugia: two-winged, as in Betula. Tripterugia: three-winged.

Tetrapterugia: three-winged.

Tetrapterygia: four-winged.

Polypterigia: many-winged, or Molendinacea: windmill-winged, for so the many-winged seeds of some umbelliferous plants are termed.

The two lateral or side petals of a papilionaceous

4. The two lateral or side petals of a papilionaceous or butterfly-shaped flowér.

ALA AURIS. The upper part of the external ear.

ALA INTERNA MINON. See Nymphx.

ALA MASI. 1. The cartilage of the nose which forms the outer part of the nostrils.

2. The sides of the nose are called ale nasi.

ALA VESFERTILIONIS. That part of the ligament of the womb, which lies between the tubes and the ovarium; so called from its resemblance to the wing of shat:

ALABASTER. Among the stones which are known by the name of marble, and have been distinguished by a considerable variety of denominations by statuaby a considerable variety of denominations by statua-ries and others, whose attention is more directed to their external character and appearance than their component parts, alabasters are those which have a greater or less degree of imperfect transparency, a gra-nular texture, are softer, take a duller polish than marble, and are usually of a white colour. Some stones, however, of a veined and coloured appearance, away been considered as alphasters, from their rossessinave been considered as alabasters, from their possessing the first-mentioned criterion; and some transparent and yellow sparry stones have also received this appellation.

Alabaster is a variety of compact gypsum. [Alabaster is a variety of compact gypsum. It is found in compact masses of a fine grain, whose fracture is even, or splintery, and nearly or quite dull, or sometimes a little foliated. It is nearly opaque, and its colours are commonly white or gray, sometimes shaded with yellow, red, &c. or variously mingled. Its specific gravity is sometimes only 1.87. It is sometimes in consentions.

Compact gypsum, and some varieties of granular gypsum, are employed in sculpture and architecture, under the name of alabaster. The same name is also given to certain varieties of carbonate of lime. It may

be well to employ the term gypseous and calcareous Min

The cabinet of the New-York Lycoum of Natural History contains some very fine specimens of gypseous alabaster, from various parts of the United States.

ALEFORMIS. (Alaformis; from Ala, a wing, and forma, resemblance.) Wing-like. Any thing like

ALM'A PHTHI'SIS. (From a  $\lambda a \iota o \varsigma$ , blind, and  $\phi \theta \iota \sigma \iota s \varsigma$ , a wasting.) A consumption from a flux of humours from the head.

from the neat:
[ALALITE. A rare mineral, consisting principally
of silex, magnesia, and lime, found in the form of prismatic crystals, otherwise called diopside. A.]
ALANDAMIA. The Arabian for bitter. The bitter

apple. See Cucumis colocynthis

ALANFU'TA. An Arabian name of a vein between the chin and lower lip, which was formerly opened to prevent fœtid breath

ALARIA OSSA. The wing-like processes of the sphenoid bone

ALA'RIS.

ALA'RIS. (Alaris; from ala, a wing.) Formed like, or belonging to a wing. ALARIS EXTERNUS. Musculus alaris externus. A name of the external pterygoid muscle; so called because it takes its rise from the wing-like process of the sphenoid bone.

The innermost of the three veins in ALARIS VENA.

the bend of the arm.

ALATE RNUS. A species of rhamnus: ALATUS. (From ala, a wing.) Winged. ! Ap-plied to stems and leaf-stalks, when the edges or angles are longitudinally expanded-into leaf-like borders; in . Enopordium acanthium; Lathyrus latifolius, &c. and the leaf-stalk of the orange tribe, citrus, &c 2. One who has prominent scapulæ like the wings

ALBAGRAS NIGRA. So Avicenna names the Lepra

hthyosis, or Lepra Gracorum. ALBAME'NTUM. (From albus, white.)

ALBIANIS. (From albico, to grow white.)

A'LBICANS. (From albico, to grow white.)

A'LBICANS. (From albico, to grow white.)

Inclining to white.

ALBICA'NTIA CO'RPORA. Corpora albicantia Wil-listi. Two small round bodies or projections from the base of the brain, of a white colour.

A mineral found in Bohemia; so called from its white colour.

ALBI'NUS BERNARD STEGFRED, son of a physician, and professor at Leyden of the same name, was born near the end of the 17th century, and prosecuted his studies with so much zeal and success, that he was appointed, on the recommendation of Boerhaave, professor of anatomy and surgery, when only 20 years old. This office he filled for half a century, and acquired a greater reputation than any of his predecessors. He has left several valuable anatomical works: and particularly very accurate descriptions, and plates of the muscles and bones, which are still highly

A'LBORA. A'sort of itch; or rather of leprosy Paracelsus says, it is a complication of the morphew, serpigo, and leprosy. When cicatrices appear in the face like the serpigo, and then turn to small blisters of the nature of the morphew, it is the albora. It terminates without ulceration, but by fætid evacuations in the mouth and nostrils; it is also seated in the root of

ALBUCA'SIS, an Arabian physician and surgeon Abbuck as the state of considerable merit, who lived about the beginning of the twelfth century. He has copied much from preceding writers, but added also many original observations; and his works may be still perused with pleasure. He insisted on the necessity of a surgeon being skilled in anatomy to enable him to operate with success, as well as acquainted with the materia medica, that he may apply his remedies with propriety. dies, that he may apply his rememes what propriety. He appears to have extracted polypi from the nose, and performed the operation of bronchotomy. He is the first who left distinct descriptions and delineations of the instruments used in surgery, and of the manner of

ALBUGI'NEA. (Albuginia; from albus, white: so

called on account of its white colour.) membrane of the eye and of the testicle

ALBUSINEA OCUL. See Advanta tunica.
ALBUSINEA TESTIS. Tunica albuginea testis. The innermost coat of the testicle. A strong, white, and dense membrane, immediately covering the body or substance of the testicle. On its outer surface it is smooth, but youch and unware on the inner. See smooth, but rough and uneven on the inner. See

ALBUGO. A white opacity of the cornea of the eye. The Greeks named it leucoma; the Latins, albugo, nebula, and nubecula. Some ancient writers have

neotic, and nuoccua. Some ancient writers have called it persysium, janua oculi, onyz, unguis, and egides. It is a variety of Cullen's Caligo cornee.

[Albugo, (from albus, white.) It is a white opacity of the cornea, not of a superficial kind, but affecting the very substance of this membrane. A.]

ALBUM BALSAMUM. The balsam of copaibs. See

Copaiba.

ALBUM GRÆCUM. The white dung of dogs. It was formerly applied as a discutient, to the inside of the throat, in quinsies, being first mixed with honey; medicines of this kind have long since justly sunk into

ALBUM OLUS. See Valeriana locusta.
ALBUMEN. Albumine. 1. Coagulable lymph. This substance, which derives its name from the Latin for the white of an egg, in which it exists abundantly, and in its purest natural state, is one of the chief constituent principles of all the animal solids. Beside the white of egg, it abounds in the sammal solids. Beside the white of egg, it abounds in the serum of blood, the vitreous and crystalline humours of the eye, and the fluid of dropsy. Fourcroy claims to himself the honour of having discovered it in the green feculæ of plants in general, particularly in those of the cruciform order, in very young ones, and in the fresh shoots of trees; though Rouelle appears to have detected it there long before. Vauquelin says it exists also in the mineral water of Plombieres

Seguin has found it in remarkable quantity in such seguli has found for remarkation and afford a vinous liquor; and from a series of experiments, he infers, that albumen is the true-principle of fermentation, and that its action is more powerful in proportion to its solu-bility, three different degrees of which he found it to

The chief characteristic of albumen is its coagulability by the action of heat: If the white of arregg be exposed to a heat of about 1349 F, white fibres begun to appear in it, and at 1600 it coagulates into a solid mass In a heat not exceeding 212 it dries, shrinks, and assumes the appearance of horn. It is soluble in cold water before it has been coagulated, but not after; and water before it has been congulated, but het art; and when diluted with a very large portion, it does not congulate easily. Pure alcalies dissolve it, even after congulation. It is precipitated by muriate of mercury, nitro-muriate of tin, acetate of lead, nitrate of silver, muriate of gold, indusion of galls and tannin. The acids and metallic oxydes congulate albumen. On the addition of concentrated sulphuric acid, it becomes black, and exhales a nauseous smell. Strong muriatic acid gives a violet tinge to the coagulum, and at length acting gives a voice tinge to the coagulatin, and at length becomes saturated with ammonia. Nitric acid, at 70° F, disengages from it abundance of azotic gas; and if the heat be increased, prussic acid is formed; after which carbonic acid and carburetted hydrogen are evolved, and the residue consists of water containing a little oxalic acid, and covered with a lemon-coloured fat oil. If dry potassa or soda be triturated with albumen, either liquid or solid, ammoniacal gas is evolved, and the calcination of the residuum yields an alcaline

On exposure to the atmosphere in a moist state, albumen passes at once to the state of putrefaction.

Solid albumen may be obtained by agitating white of egg with ten or twelve times its weight of alcohol. This seizes the water which held the albumen in soluand this substance is precipitated under the form of white flocks or flaments, which cohesive attraction renders insoluble, and which consequently may be freely washed with water. Albumen thus obtained is like fibrine, solid, white, insipid, inodorous, denser than water, and without action or vegetable colours. It disasters in pattern and water and water and water water and water and water wat water, and without action of regetable dissolves in potassa and soda more easily than fibrine; but in acetic acid and ammonia, with more difficulty. When these two animal principles are separately dissolved in potassa, muriatic acid added to the albumi-

The name of a | nous, does not disturb the solution, but it produces a cloud in the other

Fourcroy and several other chemists have ascribed the characteristic coagulation of albumen by heat to its oxygenation. But cohesive attraction is the real cause of the phenomenon. In proportion as the temperature rises, the particles of water and albumen recede from each other, their affinity diminishes, and then the albumen precipitates. However, by uniting albumen with a large quantity of water, we diminish its coagulating property to such a degree, that heat renders the solution merely opalescent. A new-laid egg yields a soft coagu-lum hy boiling; but when, by keeping, a portion of the water has transuded so as to leave a void space within the shell, the concentrated albumen affords a firm coagulum.

An analogous phenomenon is exhibited by acetate of alumina, a solution of which, being heated, gives a pre-cipitate in flakes, which re-dissolve as the caloric which cipitate in flakes, which re-dissolve as the curve separated the particles of acid and base escapes, or as the temperature falls. A solution containing 1-10 of dry albumen forms by heat a solid coagulum; but when it contains only 1-15, it gives a glary liquid. One-thou-It contains only 1-13 it gives a giary inquid. One-mous-sandth part, however, on applying heat, occasions opa-lescence. Putrid white of egg, and the pus of ulcers, have a similar smell. According to Dr. Bostock, a drop of a saturated solution of corrosive sublimate let-fall into water containing 1-2000 of albumen, occasions a milkiness and curdy precipitate. On adding a slight excess of the mercurial solution to the albuminous liquid, and applying heat, the precipitate which falls, being dried, contains in every 7 parts 5 of albumen. Hence that salt is the most delicate test of this animal product. The yellow pitchy precipitate occasioned by tannin, is brittle when dried, and not liable to putrefac-But tannin, or infusion of galls, is a much nicer test of gelatin than of albumen.

The collesive attraction of coagulated albumen makes it resist putrefaction. In this state it may be kept for weeks under water without suffering change. By long digestion in weak nitric acid, albumen seems convertible into getaint. By the analysis of Gay Lussac and Thénard, 100 parts of albumen are formed of \$2.833 carden. 9.75 occurren. 7500 between 15.705 circums. carbon, 23.872 oxygen, 7.540 hydrogen, 15.705 nitrogen; or, in other terms, of 52.883 carbon, 27.127 oxygen and hydrogen, in the proportion for constituting water, 15.705 nitrogen, and, 4.285 hydrogen in excess. The negative pole of a voltaic pile in high activity coagulates albumen; but if the pile be feeble, coagulation goes on only at the positive surface. Albumen, in such a state of concentration as it exists in serum of blood, can dissolve some metallic oxydes, particularly the protoxide of iron. Orfila has found white of egg to be the best antidote to the poisonous effects of corrosive sublimate on the human stomach. As albumen occasions precipitates with the solutions of almost every metallic salt, probably it may act beneficially against other species of mineral poison.

From its coagulability albumen is of great use in cla-

It is likewise remarkable for the property of rendering leather supple, for which purpose a solution of whites of eggs in water is used by leather-dressers.—

Ure's Chem. Dict.

2. In botany, the term albumen is applied to a farinaceous, fleshy, or horny substance, which makes up the chief bulk of some seeds, as grapes, corn, palms, lilies, never rising out of the ground, nor assuming the office of leaves, being destined solely to nourish the germinating embryo, till its roots perform their office. minating embryo, till its roots perform their office. In the date palm, this part is nearly as hard as stone, in murabelis it is like wheat-flour. It is wanting in several tribes of plants, as those with compound or with cruciform flowers, and the cucumber or gourd kind, according to Gardner. Some few leguminous plants have it, and a great number of others, which, like them, have cotyledons besides. We are not, however, to suppose that so important an organ is altogether wantsuppose, that so important an organ is altogether wanting, even in the above-mentioned plants. The farina-ceous matter destined to nourish their embryos, is un-questionably lodged in their cotyledons, the sweet taste of which, as they begin to germinate, often evinces its presence, and that it has undergone the same change as in barley. The albumen of the numeg is remarkable for its eroded variegated appearance, and aromatic quality; the cotyledons of this plant are very small .-

ALBUMEN OVI. Albugo ovi; Albumen albor ovi; Ovi albus liquor; Ovi candidum albumentum; Cla-reta. The white of an egg. ALBURNOM. (From albus, white.) The soft

white substance, which, in trees, is found between the liber, or inner bark, and the wood. In process of time it acquires solidity, becoming itself the wood. While soft, it performs a very important part of the func-tions of growth, which ceases when it becomes hard. A new circle of alburnum is annually formed over the old, so that a transverse section of the trunk over the oid, so that a transverse section of the trunk presents a pretty correct register of the tree's age, each zone marking one year. From its colour and comparative softness, it has been called by some writers, the adeps arborum. The albumnum is found in largest quantities in trees that are vigorous. In an oak six inches in diameter, this substance is nearly

equal in bulk to the wood.

A'LBUS, White. This term is applied to many parts, from their white colour; as linea alba, lepra

macula alba, &c. A'LCAHEST. An Arabic word to express a universal dissolvent, which was pretended to by Paracelsus and Van Helmont. Some say that Paracelsus first used this word, and that it is derived from the German words al and geest, i. e. all spirit: and that Van Hel-mont borrowed the word, and applied it to his inven-

tion, which he called the universal dissolvent.

A'LCALI. (Arabian.) This word is spelt indifferently with a c or a k. See Alkali.

ferently with a c or a k. See Alkali.

ALCALIZATION. The impregnating any spritu-

ous fluid with an alcali.

Al-CANNA. (Indian word.) See Anchusa.

A'LCAOL. The philosopher's stone The solvent for the preparation of the

ALCARRAZES. A species of porous pottery

made in Spain.
A'LOEA. (Alcea, &. f.; from aken, strength.) The name of a genus of plants in the Linnæan system.
Class, Monadelphia; Order, Polyandria. Hollyhock.
Alcea Ægyptiaca villoba. See Hibiscus Abelmoschus.

ALCEA INDICA. See Hibiscus Abelmoschus.
ALCEA ROSEA. Common hollyhock. The flowers
of this heautiful tree are said to possess adstringent
and mucilaginous virtues. They are seldom used medicinally.

ALCHEMIA. See Alchemy.
ALCHEMI'LI.A. (Alchemilla, a.f. So called because it was celebrated by the old alchemists.)

1. The nume of a genus of plants in the Linnean system. Class, Tetrandria; Order, Monogynia. Ladion learners. dies' mantle.

2. The pharmacopæial name of the plant called la-

dies' mantle. Sea Aichemilla vulgaris.

Alchemilla' vulgaris, Ladies' mantle. This plant, Alchemilla:—Foliis lobatis of Linneus, was formerly esteemed as an adstringent in hæmorrhages, fluor albus, &c. given internally. It is fallen into

ALCHEMIST. One who practises the mystical

A'LCHEMY. Alchemia; Alchimia; Alkima. That branch of chemistry which relates to the transmuta-tion of metals into gold;—the forming a panacea or universal remedy,—an alcahest, or universal menstrumn,-a universal ferment, and many other lab-

ALCHIMIA. See Alchemy.
ALCHIMI'LLA. See Alchemilla.
A'LCHITRON. 1. Oil of Juniper.
2. Also the name of a darker.

A'LCHITRON. I. Oil of Juniper.

2. Also the name of a dentifrice of Messue.
A'LCHYMY. Alchemy.
A'LCHOL. See Alkohol.
ALCYO'NIUM. It is difficult to say what the Greeks called by this name. Dioscorides speaks of five sorts of it. It is a spongy plant-like substance, met with on the sea-shore, of different shapes and colours. This bastard sponge is calcined with a little salt, as a dentifrice, and is used to remove spots on the skin.

ALDER. See Betula alnus.
Alder, berry-bearing. See Rhamnus frangula.

Allder, berry-bearing. See Rhamnus frangula.
Alder vine. See Betula alnus.
ALDUM. See Alzum.
ALDUM. See Alzum.
ALC. Cerevisia; Liquor cereris; Vinum pordea-

coum. A fermented liquor made from malt and hope, and chiefly distinguished from beer, made from the same ingredients, by the quantity of hops used therein, which is greater in beer, and therefore renders the liquor more bitter, and fitter for keeping. Ale, when well fermented, is a wholesome beverage, but seems well fermented, is a wholesome beverage, but seems to disagree with those subject to asthma, or any disorder of the respiration, or irregularity in the digestive organs. The old dispensatories enumerate several medicated ales, such as cerevisia oxydorica, for the eyes; cerevisia antiarthritica, against the gout; cephalica, epileptica, &o. See Beer.

ALEI'ON. (Αλειον, copious.) Hippocrates uses this word as an epithet for water.

ALEI'PHA. (From αλειφω, to anoint.) Any medicated oil.

ALELAI'ON. (From αλς, salt, and ελαιον, oil.) Oil beat up with salt, to apply to tumours. Galen frequently used it.

ALB'MA. (From a. priv. and λιμος, hunger.)
Meat, food, or any thing that satisfies the appetite.
ALE'MBIC. (Alembicus. Some derive it from the
Arabian particle al, and aμβιζ; from aμβαινω, to ascend. Avicenna declares it to be Arabian.) Moorahead. A chemical unique in mode and finite moralhead. A chemical unique in mode and finite moralhead. A chemical unique in mode and finite moralhead. A chemical utensil made of glass, metal, or earthenware, and adapted to receive volatile products from retorts. It consists of a body to which is fitted a conical head, and out of this head descends laterally a

beak to be inserted into the receiver.

ALE MBROTH. (A Chaldee word, importing the key of art.) 1. Some explain it as the name of a salt, sal mercarri, or sal philosophorum & artis; others say it is named alembrot and sal fusionis or sal fisionis.

Alembroth desiccatum is said to be the sal tartar; hence this word seems to signify alkaline salt, which opens the bodies of metals by destroying their sulphurs, and promoting their separation from the ores. analogy, it is supposed to have the same effect in conquering obstructions and attenuating viscid fluids in

the human body.

2. A peculiar earth, probably containing a fixed alkali, found in the island of Cyprus, has also this ap-

pellation.

3. A solution of the corrosive sublimate, to which the muriate of ammonia has been added, is called sal

ALEPE'NSIS. A species of ash-tree, which produces

Albes. (From αλς, salt.) A compound salt.

Alber κον. (From αλεφ, to grind.) Meal.

Alexanders, round-leaved. See Smyrnium perfo-

ALEXA'NDRIA. (Alexandria) Alexandrina. The bay-tree, or laurel, of Alexandria.

ALEXA NORUTUM. Emplostrum viride. A plaster described by Celsus, made with wax, alum, &c. ALEXICA CUM. (From αλεξω, to drive away, and (κακο), evil.) An antidote or amulet, to resist

poison.
ALEXIPHA'RMIG. (Alexipharmicum; from αλεξω, to expel, and φαρμακον, a poison.) Antipharmicum; Caco-alexiteria. A medicine supposed to preserve the body against the power of poisons, or to correct or expel those taken. The ancients attributed this property to some vegetables and even waters distilled from them. The term, however, is now very seldom used.
ALEXIPYRETICUM. (From αλέξω, to drive away, and πίφετος, fever.) A febrifuge.
ALEXIPYRETOS. Alexipyretum. A remedy for fever.

a fever.

ALE XIR. An elixir.

ALEXITE RIUM. (Alexiterium, i.n.; from αλεξω, to expel, and τηρεω, to preserve.) A preservative medicine against poison, or contagion.

ALGA. A sea-weed.

ALGE. 1. The name of an order or division of the ALOE. 1. The name of an order or division of the class Cryptogamia. In the Linuxen system of plants. The name of one of the seven families or natural tribes into which the whole vegetable Kingdom is divided by Linuxus in his Philosophia Botanica. He defines them plants, the roots, leaves, and stems of which are all in one. Under this description are comprehended all the sea-weeds and some other aquatic plants.

2. In the segual system of plants. Mag. Constitute.

2. In the sexual system of plants Alga constitute the third order of the class, Cryptogamia. From their admitting of little distinction of root, leaf, or stem, and

the parts of their flowers being equally incapable of description, the genera are distinguished by the situation of what is supposed to be the flowers or seeds, or by the resemblance which the whole plant bears to some other substance

The parts of fructification of the alge are in caly-

which there are three varieties

1. Pelta, target; a flat, oblong fruit, seen in the Lichen caninus.

2. Scutella, the saucer; a round, hollow, or flat fruit, as in Lichen stellaris.

Tuberculum, the tubercle; a hemispherical fruit,

observable in Lichen geographicus.
In the fuci, the parts of fructification are sometimes

in hollow bladders; and in some of the ulvæ, it is dispersed through the whole substance of the plant.

A'LGAROTH. (So called from Victorius Algaroth, a physician of Verona, and its inventor.) Algar rot Algaroth; Mercurius vita; Pulvis Algaroth; Pulvis angelieus; Mercurius mortis. The antimonial part of the butter of antimony, separated from some of its acid by washing it in water. It is viosome of its acid by washing it in water. It is violently emetic in doses of two or three grains, and is
preferred by many for making the emetic tartar.

ALGETO. (From αλγος, pain.) A violent pain
about the anus, perineum, testes, urethra, and bladder, arising from the sudden stoppage of a virulent gonorrhoea. A term very seldom used.

ALGEMA. (From αλγεω, to be in pain.) Algemodes; Algemetodes. Uneasiness; pain of any kind.

A'LGOB. A sudden chillness or rigour.

ALGOSAREL. The Arabian term for the wild carrot.

See Dagues subrestris.

See Daucus sylvestris.
ALHA'GI. (Arabian.) Alha'gi. (Arabian.) A species of Hedysarum. The leaves are hot and pungent, the flowers purgative.

ALHA'NDALA. An Arabian name for the colocynth,

or bitter apple.
ALHA'SEF. (Arabian.) Alhasaf. A sort of fætid

ALLA SEF. (Arabian.) Alkasaf. A sort of fixed pustule, called also Hydroa.

A'LLA SQUILLA. (From allos, belonging to the sea, and σκιλλα, a shrimp.) The prawn. A species of the genus cancer.

A'LICA. (From alo, to nourish) In general signification, a grain, a sort of food admired by the ancients. It is not certain whether it is a grain or a preparation of some kind thereof.

ALICASTRUM. (From alica, as siliquastrum from

siliqua.) A kind of bread mentioned by Celsus.

A'LICES. (From  $a\lambda i \zeta \omega$ , to sprinkle.) Little red spots in the skin, which precede the eruption of pus-

tules in the small-pox.
ALIENA'TIO MENTIS.
ALIENA'TION. Estrangement of the mind. (Alienatio; from alieno, estrange.) A term applied to any wandering of the

ALIENA'TUS. Alienated. A leaf is so termed when the first leaves give way to others totally different from them, and the natural habit of the genus, as

is the case in many of the mimosor from New Holland.
ALIFO'RMIS. Alasform, or wing-like. A name given by anatomists and naturalists to some parts from their supposed resemblance, as aliform muscles, &c.

ALIMENT. (Alimentum; from alo, to nourish.)
The name of aliment is given generally to every substance, which being subjected to the action of the organs of digestion, is capable by itself of affording nourishment. In this sense an aliment is extracted necessarily from vegetables or animals: for only those bodies that have possessed life are capable of serving usefully in the nutrition of animals during a certain time. This manner of regarding aliments appears rather too confined. Why refuse the name of aliments to substances which, in reality, cannot of themselves afford nourishment, but which contribute efficational transfer of the composition of the ciously to nutrition, since they enter into the composition of the organs, and of the animal fluids? are the muriate of soda, the oxyde of iron, silicia, and particularly water, which is found in such abundance in the bodies of animals, and is so necessary to them. It appears preferable to consider as an aliment every substance which can again a survivine, against the substance which can again a survivine, against the survivine substance which can serve in nutrition; establishing, however, the important distinction between substances which can nourish of themselves, and those which are useful to nutrition only in concert with the former.

In respect to their nature, aliments are different oysters.

from each other, by the proximate principles which predominate in their composition. They may be distinguished into nine class

lst, Farinaceous aliments: wheat, barley, oats, rye, maize, potato, sago, salep, peas, haricots,

rice, rye, maize, potato, sago, salep, peas, harnous, lentils, &c.

2d, Mucilaginous aliments: carrots, salsafy, (goatsbeard) beet-root, turnip, asparagus, cabbage, lettuce, artichoke, cardoons, pompions, melons, &c.

3d, Sweet aliments: the different sorts of sugar figs, dates, dried grapes, apricots, &c.

4th, Acidulous aliments: oranges, gooseberries, cherries, peaches, strawberries, raspberries, mulberries, grapes, mrings, mens. apples, sortel, &c.

grapes, prunes, pears, apples, sorrel, &c.
5th, Fatty and oily aiments: cocoa, olives, sweet almonds, nuts, walnuts, the animal fats, the oils, butter, &cc.

6th, Caseous aliments: the different sorts of milk,

cheese, &c.
7th, Gelatinous aliments: the tendons, the aponeurosis, the chorion, the cellular membrane, young animals, &c

8th, Albuminous aliments: the brain, the nerves,

9th, Fibrinous aliments: the flesh and the blood of different animals.

We might add to this list a great number of substances that are employed as medicines, but which doubtless are nutritive, at least in some of their immediate principles; such are manna, tamarinds, the pulp of cassia, the extracts and saps of vegetables, the animal or vegetable decoctions.

Among aliments there are few employed such as nature presents them; they are generally prepared, nature presents them; they are generally prepared, and disposed in such a manner as to be suitable to the action of the digestive organs. The preparations which they undergo are infinitely various, according to the sort of aliment, the people, the climates, customs, the degree of civilization; even fashion is not without its influence on the art of preparing aliments.

In the hand of the skilful cook, alimentary substances almost entirely change their nature:-form, consistence, odour, taste, colour, composition, &c., every thing is so modified that it is impossible for the most delicate tastes to recognise the original substance of certain dishes

The useful object of cookery is to render aliments The useful object of cookery is to render aliments agreeable to the senses, and of vasy digestion; but it rarely stops here: frequently with people advanced in civilization its object is to excite delicate palates, or difficult tastes, or to please vanity. Then, far from being a useful art, it becomes a real sourge, which occasions a great number of diseases, and has frequently brought on premature death.

We understand by drink, a liquid which, being introduced into the digestive organs, quenches thirst, and so by this repairs the habitual losses of our fluid humours: the drinks ought to be considered as real

The drinks are distinguished by their chemical com-

position: 1st. Water of different sorts, spring water, river water, water of wells, &c.

2d, The juices and infusions of vegetables and animals, juices of lemon, of gooseberries, whey, tea, coffee, &c.

3d, Fermented liquors: the different sorts of wine, beer, cider, perry, &c

4th, The alcoholic liquors: brandy, alcohol, ether, rum, sack, ratafia.

ALIMENTARY. Alimentarius. Nourishing or belonging to food.

belonging to food.

ALIMENTARY CANAL. Canalis alimentarius. Alimentary duct. A name given to the whole of those passages which the food passes through from the mouth to the anus. This duct may be said to be the true characteristic of an animal; there being no animal without it, and whatever has it, being properly ranged under the class of animals. Plants receive their nourishment by the numerous fibres of their roots, but have no common receivacle for discesting the food renourishment by the numerous nores of their roots, but have no common receptacle for digesting the food received, or for carrying off the excrements. But in all, even the lowest degree of animal life, we may observe a stomach, if not also intestines, even where we cannot perceive the least formation of any organs of the senses, unless that common one of feeling, as in

Alimentary canal.
2. The thoracic duct is sometimes so called. See Thoracic duct

Thoracic duct.

ALIMOS. Common liquorice.

A'LIMUM. A species of arum.

ALIPA'SMA. (From aλετφω, to anoint.) An ointment rubbed upon the body to prevent sweating.

ALIPOW. A species of turbith, found near Mount Ceti, in Languedoc. It is a powerful purgative, used instead of senna, but is much more active.

ALIPTE. (From αλετφω, to anoint.) Those who actived accepts after pathing.

ALIPITE. (From αλειφω, το αποιπε, anoined persons after bathing.

'Alisandare.' The same as alexanders.

ALI'SMA. (Alisma; from αλε, the sea.) The name of a genus of plants in the Linnæan system Class, Hexandria; Order, Polygynia. Water-plantain.

Class, Hexandria (AQUATICA. The systematic A'LIT. Alith. Asafetida.

A'LIT. Alith. Asafetida.

A'LEAHAT GLAUBE'RI. An alkaline salt.

ALKAHAT GLAUBE RI. An aikaine sail.

A'LKAHEST. An imaginary universal menstruum,
or solvent. See Alkahest.

A'LKAHEST GLAUBE RI. An alkaline salt.

ALKALESCENT. Alkalescens. Any substance

ALKALESCENT. Alkalescens. Any substance in which alkaline pfoperties are beginning to be developed, or to predominate, is so termed.

A'LKALi. (Alcali, in Arabic, signifies burnt; or from al and kali, i. e. the essence, or the whole of kali, the plant from which it was originally prepared, though now derived from plants of every kind. Alcali;

if; alafor; alafort; valcadis.
Alkalies may be defined, those bodies which com-Alkalica may be defined, those bodies which combine with axids, so as to neutralize or impair their activity, and produce salts. Acidity and alkalinity are therefore two correlative terms of one species of combination. When Lavoisier introduced oxygen as the acidifying principle, Morveau proposed hydrogen as the alkalitying principle, from its being a constituent of volatile alcali or aumnonia. But the splendid discovery by Sir H. Davy, of the metallic basis of potassa and soda, and of their conversion into alkalics, by combination with oxygen, has hanished for eyer that there. bination with oxygen, has banished for ever that hypothetical conceit. It is the mode in which the constituents are combined, rather than the nature of the constituents themselves, which gives rise to the acid or alkaline condition. Some metals combined with oxygen in one proportion, produce a body possessed of alkaline properties; in another proportion, of acid properties. And on the other hand, ammonia and prussic acid prove that both the alkaline and acid conditions can exist independent of oxygen. These observations, by generalizing our notions of acids and alkalies, have rendered the definitions of them very imperfect. The difficulty of tracing a limit between the acids and alkalies is still increased, when we find a body sometimes performing the functions of an acid, sometimes of an alkali. Nor can we diminish this difficulty by having recourse to the beautiful law discovered by Sir II. Davy, that oxygen and acids go to the positive pole, and hydrogen alkalies, and inflammable bases to the negative pole. We cannot in fact give the name of acid to all the bodies which go to the first of these poles, and that of alkali to those that go to the second: and if we wished to define the alkalies by bringing into view their electric energy, it would be conditions can exist independent of oxygen. to the second; and it we wissed to define the anxancs by bringing into view their electric energy, it would be necessary to compare them with the electric energy which is opposite to them. Thus we are always reduced to define alkalinity by the property which it has of saturating acidity, because alkalinity and acidity are two correlative and inseparable terms. M. Gay Lussac conceives the alkalinity which the metallic oxides enjoy, to be the result of two opposite properties, the alkalifying property of the metal, and the acidifying of oxygen, modified both by the combination and by the proportions.

the proportions.

The alkalies may be arranged into three classes:

1st. Those which consist of a metallic basis combined
with oxygen. These are three in number, potassa,
soda, and lithia. 2d, That which contains no oxygen,
viz. ammonia. 3d, Those containing oxygen, hydrogen, and carbon. In this class we have aconita, atropia, brucia, cicuta, datura, delphia, hyosciama, mor-phia, strychnia, and perhaps some other truly vegeta-ble alkalies. The order of vegetable alkalies may be as numerous as that of vegetable acids, The earths, lime, barytes, and strontites, were enrolled among the

ALIMENTARY DUCT. 1. The alimentary canal. See inkalies by Fourcroy, but they have been kept apart by the systematic writers, and are called alkaline earths. Besides neutralizing action, and thereby giving birth korracic duct.

perties

nerties:—

1st, They change the purple colour of many vegetables to a green, the reds to a purple, and the yellows to a brown. If the purple have been reddened by acid,

alkalies restore the purple.

2d, They possess this power on vegetable colours after being saturated with carbonic acid, by which criterion they are distinguishable from the akaline

3d. They have an acrid and urinous taste.

4th, They have an actin and unious tasker.
4th, They are powerful solvents or corrosives of animal matter; with which, as well as with oils in general, they combine, so as to produce neutrality.

5th, They are decomposed, or volatilized, at a strong 6th, They combine with water in every proportion,

and also largely with alcohol.

7th, They continue to be soluble in water when neutralized with carbonic acid; while the alkaline earths

It is peedless to detail at length Dr. Murray's speculations on alkalinity. They seem to flow from a partial view of chemical phenomena. According to him, either oxygen or hydrogen may generate alkalinity, but the combination of both principles is necessary to give this condition its utmost energy. "Thus the class of alkalies will exhibit the same relations as the class of acids. Some are compounds of a base with oxygen; such are the greater number of the metallic oxydes, and probably of the earths. Ammonia is compound of a base with hydrogen. Potassa, soda, barytes, strontites, and probably lime, are compounds of bases with oxygen and hydrogen; and these last, like the analogous order among the acids, possess the highest power." Now, perfeetly dry and caustic barytes, lime, and strontites, as well as the dry potassa and soda obtained by Gay Lussac and Thenard, are not inferior in alkaline power to the same bodies after and soda obtained by Gay Lussãe and Thenard, are not inferior in alkaline power to the same bodies after they are slacked or combined with water. 100 parts of lime destitute of hydrogen, that is, pure oxyde of calcium, neutralize 78 parts of carbonic acid. But 132 parts of Dr. Murray's strongest lime, that is, the hydrate, are required to produce the same alkaline effect. If we ignite mitrate of barytes, we obtain, as is well known, a perfectly dry barytes, or protoxide of barium; but if we ignite crystallized barytes, we obtain the agme alkaline earth combined with a prime equiknown, a perfectly dry barytes, or protoxide of bartun; but if we ignife crystallized barytes, we obtain the same alkaline earth combined with a prime equivalent of water. These two different states of barytes were demonstrated by M. Berthollet in an excellent paper published in the 2d volume of the Memoirs D'Arouell, so far back as 1899. "The first barytes," (that from crystallized barytes) says he, "presents all the characters of a combination; it is engaged with a substance which diminishes its action on other bodies, which renders it more fusible, and which gives it by fusion the appearance of glass. This substance is nothing else but water; but in fact, by adding a little water to the second barytes (that from ignited nitrate) and by urging it at the fire, we give it the properties of the first." Page 47. 100 parts of barytes void of hydrogen, or dry barytes, neutralize 28 1-2 of dry carbonic acid. Whereas 111 2-3 parts of the hydrate, or what Dr. Murray has styled the most energetic, are required to produce the same effect. In fact, it is not hydrogen and oxygen in the state of water. The proof of this is, that when carbonic acid and that hydrate wifet the exact quantity of water is discovered. proof of this is, that when carbonic acid and that hydrate unite, the exact quantity of water is disengaged. The protoxide of barium, or pure barytes, has never been combined with hydrogen by any chemist .- Ure's Chem. Dict

ALEALI CAUSTICUM. Caustic alkali. An alkali is so called when deprived of the carbonic acid it usually contains, for it then becomes more caustic, and more violent in its action.

Alkali, caustic valatile. See Ammonia.
Alkali, caustic valatile. See Ammonia.
Alkali, phiogisticated. Prussian alkali. When a
fixed alkali is ignited with bullock's blood, or other
animal substances, and lixiviated, it is found to be in
a great measure saturated with prussic acid: from the
theories formerly adopted respecting this combination,
it was called phiogisticated alkali.
Alkali Fixed alkali. These Skalics are

ALKALI FIXUM. Fixed alkali. Those alkalies are

so called that emit no characteristic smell, and cannot [ be volatilized, but with the greatest difficulty. Two kinds of fixed alkalies have only hitherto been made known, namely potassa and soda. See Potassa and

Alkali, fossile. See Soda. Alkali, mineral. See Soda.

Alkali, mineral. See Soda.

Alkali, Prussian. See Alkali, phlogisticated.

Alkali, vegetable. See Potassa.

Alkali, volatile. See Ammonia.

ALKALI'NA. Alkalines. A class of substances described by Cullen as comprehending the substances otherwise termed antacida. They consist of alkalies, and other substances which neutralize acids. and other substances which neutraize acids. The principal alkalines in use, are the carbonates and sub-carbonates of soda and potassa, the subcarbonate of ammonia, lime-water, chalk, magnesia and its car-

ALKALIZATION. Alkalizatio. The impregnating any thing with an alkaline salt, as spirit of

ALKALOMETER. The name of an instrument for determining the quantity of alkali in commercial potassa and soda.

A'LEANET. (Alkanah, a reed, Arabian.) See Anchusa tinctoria

chusa tinctoria.

Alea'nna. See Anchusa.

Alea'nna ve'ra: See Lawsonia inermis.

Alea'nna ve'ra: Arabian.) The winter-cherry.

See Physalis alkekengt.

ALKE RMES. A term borrowed from the Arabs, denoting a celebrated remedy, of the form and consistence of a confection, whereof the kermes is the basis. See Kermes.

ALEIMA. See Alchemy.
A'LKOHOL. (An Arabian word, which signifies antimony: so called from the usage of the Eastern ladies to paint their eyebrows with antimony, reduced to a most subtile powder; whence it at last came to signify any thing exalted to its highest perfection.) Alcohol; Alkol; Spiritus vinosus rectificatus; Spiritus vini rectificatus; spiritus vini concentratus; Spiritus vini rectificatissimus.

 This term is applied in strictness only to the pure spirit obtainable by distillation and subsequent rectifi-cation from all liquids that have undergone vinous fermentation, and from none but such as are susceptible of it. But it is commonly used to signify this spirit more or less imperfectly freed from water, in the state in which it is usually met with in the shops, and in which, as it was first obtained from the juice of the grape, it was long distinguished by the name of spirit of wine. At present it is extracted chiefly from grain of wine. At present it is extracted chiefly from grain or molasses in Europe, and from the juice of the sugar cane in the West Indies; and in the diluted state in which it commonly occurs in trade, constantes the basis of the several spirituous liquors called brandy, rum, gin, whiskey; and cordials, however variously denominated or disguised.

As we are not able to compound alkohol immediately from its ultimate constituents, we have recourse to the precess of ferrometation, by which its remainless.

to the process of fermentation, by which its principles are first extricated from the substances in which they were combined, and then united into a new compound; to distillation, by which this new compound, the alkohol, is separated in a state of dilution with water, and contaminated with essential oil; and to rectification,

by which it is ultimately freed from these.

It appears to be essential to the fermentation of alkohol, that the fermenting fluid should contain sac-charine matter, which is indispensable to that species of fermentation called vinous. In France, where a great deal of wine is made, particularly at the com-mencement of the vintage, that is too weak to be a saleable commodity, it is a common practice to subject this wine to distillation, in order to draw off the spirit; and as the essential oil that rises in this process is of a more pleasant flavour than that of malt or molasses, the French brandies are preferred to any other; though even in the flavour of these there is a difference, ac-cording to the wine from which they are produced. In alkohol, that the fermenting fluid should contain saccording to the wine from which they are produced. In cording to the wine from which they are produced. In the West Indies a spirit is obtained from the juice of the sugar-cane, which is highly impregnated with its essential oil, and well known by the name of rum. The distillers in this country use grain, or molasses, whence they distinguish the products by the name of malt spirits, and molasses spirits. It is said that a

very good spirit may be extracted from the hunks of gooseberries or currants, after wine has been made from them.

As the process of malting developes the saccharine As the process of maning developes the sacchaine principle of grain, it would appear to render it fitter for the purpose; though it is the common practice to use about three parts of raw grain with one of mait. For this two reasons may be assigned: by using raw grain, the expense of malting is saved, as well as the duty on malt; and the process of maining requires some nicety of attention, since, if it be carried too far, part of the saccharine matter is lost, and it in be stopped too soon, this matter will not be wholly developed. Besides, if the malt be dried too quickly, or by any unequal heat, the spirit it yields will be less in quantity, and more unpleasant in flavour. Another object of economical consideration is, what grain will afford the most spirit in proportion to its price, as well as the best in quality. Barley appears to produce less spirit than wheat; and if three parts of raw wheat be mixed with one of maited barley, the produce is said to be particularly fine. This is the practice of the distillers in Holland for producing a spirit of the finest quality; but in Engthis two reasons may be assigned: by using raw grain, for producing a spirit of the finest quality; but in England they are expressly prohibited from using more than one part of wheat to two of other grain. Rye,

than one part of wheat to two of other grain. Mye, however, affords still more spirit than wheat.

Other articles have been employed, though not generally, for the fabrication of spirit, as carrots and potatoes; and we are lately informed by Professor Proust, that from the fruit of the carob tree he has obtained good brandy in the proportion of a pint from five pounds of the dried fruit.

To obtain pure alkohol, different processes have been recommended; but the purest rectified spirit ob-tained as above described, being that which is least contaminated with foreign matter, should be employed. Rouelle recommends to draw off half the spirit in a water bath; to rectify this twice more, drawing off two-thirds each time; to add water to this alkohol, which will turn it milky by separating the essential oil remaining in it; to distill the spirit from this water; and finally rectify it by one more distillation.

Baumé sets apart the first running, when about a he has drawn off about as much more, or till the liquor runs off milky. The last running he puts into the still again, and mixes the first half of what comes over with the preceding first product. This process is again repeated, and all the first products being mixed together, are distilled afresh. When about half the fourth is come over, and continues the distillation till liquor is come over, this is to be set apart as pure

Alkohol in this state, however, is not so pure as when, to use the language of the old chemists, it has been dephlegmated, or still further freed from water, by means of some alkaline salt. Boerhaave recommended, for this purpose, the muriate of soda, deprived mended, for this purpose, the muriate of soda, deprived of its water of crystallization by heat, and added hot to the spirit. But the subcarbonate of potassa is preferable. About a third of the weight of the alkohol should be added to it in a glass vessel, well shaken, and then suffered to subside. The salt will be moistened by the water absorbed from the alkohol; which ened by the water absorbed from the anknowly wind-being decanted, more of the salt is to be added, and this is to be continued till the salt falls dry to the bot-tom of the vessel. The alkohol in this state will be reddened by a portion of the pure potassa, which it will hold in solution, from which it must be freed by

with moid in southon, from which it must be freeze with stillation in a water bath. Dry mustae of lime may be substituted advantageously for the alkali. As alkohol is much lighter than water, its specific gravity is adopted as the test of its purity. Fourcroy considers it as rectified to the highest point when its specific gravity is \$20, that of water being 1000; and perhaps this is nearly as far as it can be carried by the process of Rouelle or Baumé simply. Bories found the first measure that came over from twenty of spirit at 836 to be 820, at the temperature of 710 F. Sir at 836 to be 820, at the temperature of 710 F. Sir Charles Blagden, by the addition of alkali, brought it to 813, at 600 F. Chaussier professes to have reduced it to 793; but he gives 998.35 as the specific gravity of water. Lowitz asserts that he has obtained it at 791, by adding as much alkali as nearly to absorb the spirit, but the temperature is not indicated. In the shops, it is about 835 or 840: according to the London College it should be 815.

It is by no means an easy undertaking to determine

AT.K ALK

the strength or relative value of spirits, even with suf- | tion; it therefore falls to the bottom instantly, in the ficient accuracy for commercial purposes. The fol-lowing requisites must be obtained before this can be lowing requisites must be obtained before this can be well done; the specific gravity of a certain number of mixtures of alkohol and water must be taken so near each other, as that the intermediate specific gravities may not percepubly differ from those deduced from the supposition of a mere uniture of the flowls; the expansions or variations of specific gravity in these mixtures must be determined at different temperatures; some easy method must be contrived of determining the presence and quantity of saccharine or oleaginous matter which the sprint may hold, in solution, and the effect of such solution on the specific gravity; and lastly, the specific gravity of the third must be ascertained by a proper floating instrument with a graduated stem or set of weights; or, which may be more convenient, with both.

The most remarkable characteristic property of al-The most remarkable characteristic property of al-kohol, is its solubility or combination in all proportions with water; a property possessed by no other com-bustible substance, except the acetic spirit obtained by distilling the dry acetaes. When it is burned in a chimney which communicates with the worm-pipe of a distilling apparatus, the product, which is condensed, is found to consist of water, which exceeds the spirit in weight about one-eighth part; or more accurately, 100 parts of alkohol, by combustion, yield 136 of water. If alkohol be burned in closed vessels with vital air, the product is found to be water and car-bonic acid. Whence it is inferred that alkohol con-cists of hydrogen, united either to carbonic acid, or its sists of hydrogen, united either to carbonic acid, or its acidifiable base; and that the oxygen uniting on the one part with the hydrogen, forms water; and on the other with the base of the carbonic acid, forms that

The most exact experiments on this subject are those recently made by De Saussure. The alkohol he used had, at 62.8°, a specific gravity or 0.8302; and by Richter's proportions, it consists of 13.8 water, and 86.2 of absolute alkohol. The vapour of alkohol was 86.2 of absolute aixonol. The vapour of aixonol was made to traverse a narrow porcelain tube ignited; from which the products passed along a glass tube about six feet in length, refrigerated by ice. A little charcoal was deposited in the porcelain, and a trace of oil in the glass tube. The resulting gas being analyzed in an exploding eudiometer, with oxygen, was found to resolve itself into carbonic acid and water. Three volumes of oxygen disappeared for every two volumes of carbonic acid produced; a proportion which obtains in the analysis by oxygenation of ole which obtains in the analysis by oxygenation of ole-fiant gas. Now, as nothing resulted but a combustible gas of this peculiar constitution, and condensed water equal to 1000-4064 of the original weight of the alkholic we may conclude that vapour of water and olefiant gas are the sole constituents of alkholic. Subtracting the 13.8 per cent. of water in the alkohol at the beginthe 13st per cent. of water in the attorn at the begun-ning of the experiment, the absolute alcohol of Richter will consist of 13.7 hydrogen, 51.98 carbon, and 34.32 oxygen. Hence Gay Lussac infers, that alkhoh, in vapour, is composed of one volume olefant gas, and one volume of the vapour of water, condensed by che-

Sum=1.60304 And alkoholic vapour is=1.6133

These numbers approach nearly to those which would result from two prime equivalents of olefiant gas, combined with one of water; or ultimately, three of hydrogen, two of carbon, and one of oxygen.

The mutual action between alkohol and acids pro-The mutual action between alkohol and acids produces a light, volatile, and inflammable substance, called æther. Pure alkalies unite with spirit of wine, and form alkaline tinctures. Few of the neutral salts unite with this fluid, except such as contain ammonia. The carbonated fixed alkalies are not soluble in it. From the strong attraction which exists between alkohol and water, it unites with this last in saline solutions, and in most cases precipitates, the sale. This is not and water, it unnes will this task in same sout-tions, and in most cases precipitates the salt. This is a pleasing experiment, which never fails to surprise those who are unacquainted with chemical effects. If, for example, a saturated solution of nitre in water be taken, and an equal quantity of strong spirit of wine be poured upon it, the mixture will constitute a weaker spirit, which is incapable of holding the nitre in soluform of minute crystals.

The degree of solubility of many neutral salts in

The degree of solubility of many neutral saus in alkohol have been ascertained by experiments made by Macquer, of which an account is published in the Memoirs of the Turin Academy.

All deliquescent salts are soluble in alkohol. Alko-

hol holding the strontitic salts in solution, gives a flame of a rich purple. The cupreous salts and boracic acid give a green; the soluble calcareous, a reddish; the

barytic, a yellowish.

The alkohol of 0.825 has been subjected to a cold of

916 without congealing

When potassium and sodium are put in contact with the strongest alkohol, hydrogen is evolved. When chlorine is made to pass through alkohol in a Woolfe's apparatus, there is a contual action. Water, an oily appetatus, there is a mutual action. Water, an only hoking substance, muriatic acid, a little carbonic acid and carbonaceous matter, are the products. This oily substance does not redden turnsole, though its analysis by heat shows it to contain muriatic acid. It is white, by heat shows it to contain intribute detail. As swingle denser than water, has a cooling taste analogous to mint, and a peculiar, but not ethereous odour. It is very soluble in alkohol, but scarcely in water. The strongest alkalies hardly operate on it.

strongest alkalies hardly operate on it.

It was at one time maintained, that alkohol did not exist in wines, but was generated and evolved by the heat of distillation. On this subject Gay Lussac made some decisive experiments. He agitated wine with litharge in fine powder, till the liquid became as limpid as water, and then saturated it with subcarbonate of potassa. The alkohol immediately separated and floated on the top. He distilled another portion of wine in vacon, at 599 Fahr, a temperature considerably below that of fermentation. Alkohol came over. Mr. Brande proved the same position by saturating wine with subacetate of lead, and adding potassa. Adem and Duportal have substituted for the redistillations used in converting wine or beer into alkohol

rillations used in converting wine or beer into alkohol, a single process of great elegance. From the capital of the still a tube is led into a large copper recipient. This is joined by a second tube to a second recipient, and so on through a series of four vessels, arranged like a Woolfe's apparatus. The last vessel communicates with the worm of the first refrigeratory. This, the body of the still, and the two recipients nearest it, are charged with the wine or fermented liquor. When ebullition takes place in the still, the vapour issuing from condition takes place in the still, the vapour issuing from it communicates soon the boiling temperature to the liquor in the two recipients. From these the volatilized alkohol will rise and pass into the third vessel, which is empty. After communicating a certain heat to it, a portion of the finer or less condensible spirit will pass into the fourth, and thence, in a little, into the worm of the first religeratory. The wine round the worm will likewise acquire heat, but more slowly. The vapour that in that eyent may pass uncondensed. worm will likewise acquire heat, but more slowly. The vapour that in that event may pass uncondensed through the first worm, is conducted into a second, surrounded with cold water. Whenever the still is worked off, it is replenished by a stop-cock from the nearest recipient, which, in its turn, is filled from the second, and the second from the first worm tub. It is evident, from this arrangement, that by keeping the third and fourth recipients at a certain temperature, we may cause alkohol, of any degree of lightness, to form directly at the remote extremity of the apparatus. The utmost economy of fuel and time is also secured, and a better flavoured spirit is obtained. gout of bad spirit can scarcely be destroyed by infusion with charcoal and redistillation. In this mode of sion with charcoal and registillation. In this mode or operating, the taste and smell are excellent, from the first. Several stills on the above principle have been constructed at Glasgow for the West India distillers, and have been found extremely advantageous. The excise laws do not permit their employment in the home trade.

If sulphur in sublimation meet with the vapour of alkohol, a very small portion combines with it, which communicates a hydrosulphurous smell to the fluid. The increased surface of the two substances appears to favour the combination. It had been supposed, that this was the only way in which they could be united; but Favre has lately asserted, that having digested two drachms of flowers of sulphur in an onnce of alkohol, over a gentle fire not sufficient to make it boil, for twelve hours, he obtained a solution that gave twenty-three grains of precipitate. A similar mixture left to communicates a hydrosulphurous smell to the fluid.

stand for a month in a place exposed to the solar rays, afforded sixteen grains of precipitate; and another from which the light was excluded, gave thirteen grains. alkohol be boiled with one-fourth of its weight of sulphur for an hour, and filtered hot, a small quantity of minute crystals will be deposited on cooling; and the clear fluid will assume an opaline hue on being diluted with an equal quantity of water, in which state it will pass the filter, nor will any sediment be deposited for several hours. The alkohol used in the last-mentioned experiment did not exceed 840.

Phosphorus is sparingly soluble in alkohol, but in greater quantity by heat than in cold. The addition of water to this solution affords an opaque milky fluid, which becomes clear by the subsidence of the phos-

Earths seem to have scarcely any action upon alko-

Earths seem to have scarcety any action upon aixo-hol. Quicklime, however, produces some alteration in this fluid, by changing its flavour, and rendering it of a yellow colour. A portion is probably taken up. Soaps are dissolved with great facility in alkohol, with which they combine more readily than with water. None of the metals, or their oxydes, are acted water. None of the metals, or their oxydes, are acted upon by this fluid. Resins, essential oils, camphor, bitumen, and various other substances, are dissolved with great facility in alkohol, from which they may be precipitated by the addition of water. From its property of dissolving resins, it becomes the menstruum of

Camphor is not only extremely soluble in alkohol, but assists the solution of resins in it. Fixed oils, when rendered drying by metallic oxydes, are soluble in it, as well as when combined with alkalies.

Wax, spermaceti, biliary calculi, urea, and all the animal substances of a resinous nature, are soluble in alkohol; but it curdles milk, coagulates albumen, and hardens the muscular fibre and coagulum of the blood.

hardens the muscular abre and coagulum of the blood. The uses of alkohol are various. As a solvent of resinous substances and essential oils, it is employed both in pharmacy and by the perfumer. When diluted with an equal quantity of water, constituting what is called proof spirit, it is used for extracting tinctures from vegetable and other substances, the alkohol disfrom vegetable and other substances, the alkohol dis-solving the resinous parts, and the waier the gunnny. From giving a steady heat without smoke when burnt in a lamp, it was formerly much employed to keep water boiling on the tea-table. In thermometers, for measuring great degrees of cold, it is preferable to mer-cury, as we cannot bring it to freeze. It is in common use for preserving many anatomical preparations, and certain subjects of natural history; but to some it is injurious, the molluscæ for instance, the calcareous covering of which it in time corrodes. It is of considerable use, too, in chemical analysis, as appears under the different articles to which it is applicable.

the different articles to which it is applicable. From the great expansive power of alkoholo, it has been made a question, whether it might not be applied with advantage in the working of steam engines. From a series of experiments made by Betancourt, it appears, that the steam of alkohol has, in all cases of equal temperature, more than double the force of that of water; and that the steam of alkohol at 1719 F, is equal to that of water 2120; thus there is a considerable discinction of the considerable of the considerab diminution of the consumption of fuel, and where this is so expensive as to be an object of great importance. by contriving the machinery so as to prevent the alkohol from being lost, it may possibly at some future time be used with advantage, if some other fluid of great expansive power, and inferior price, be not found more

Alkohol may be decomposed by transmission through a red-hot tube: it is also decomposable by the strong acids, and thus affords that remarkable product, ETHER,

acids, and thus affords that remarkable product, ETHER, and OLECH VINL.— The's Chem. Dict.

2. The alkohol of the London Pharmacopeia is directed to be made thus:—Take of rectified spirit, a gallon; subcarbonate of potassa, three pounds. Add a pound of the subcarbonate of potassa, previously heated to 300%, to the spirit, and macerate for twenty-four hours, frequently stirring them; then pour off the spirit, and add to it the rest of the subcarbonate of potassa heated to the same degree; lastly, with the aid of a warm bath, let the alkohol distil over, keep it in a well-stopped bottle. The specific gravity of alkohol is to the specific gravity of distilled water, as 815 to 1,000.

ALLAGITE. A carbosilicate of manganese.

ALLANITE. A mineral, first recognised as a distinct species by Mr. Alian of Edinburgh. It is massive and of a brownish black colour.

[Before the blowpipe it froths, and is converted into scoria. In nitric acid it forms a jully. It contains silex 35:4, line 9.2, oxide of cerum 33.9, alumine 4.1, oxide of iron 25.4, volatile matter 4.0. It is found in Greenland, and associated with mica and feldspar. A.] ALLANTOLDES. (From AADA, a long's pudding, and cidos, likeness: because in some brutal animals it is long and thick.) Membrana allantoides. A membrane of the fettus, peculiar to brutes, which contains the urine discharged from the bladder. urine discharged from the bladder.

ALLELUIA. (Hebrow. Praise the Lord.) So named from its many virtues. See Oralis acctosella. ALL-HEAL. See Heraclium and Stachys.

ALL-HEAL. See Heraclium and Stachys.
ALLIA'CEOUS. (Alliaceus; from allium, garlick.)
Pertaining to garlick.
ALLIA'RIA. (From allium, garlick: from its smell resembling garlick.) See Erysimum alliuria.
A'LLIUM. (Allium, i. n.; from oleo, to smell; because it stinks: or from akto, to avoid; as being unpleasant to most people.) Garlick.

1. The name of a genus of plants in the Linnæan system. Class, Hezandria; Order, Monogymia.
2. The pharmacopæial name of garlick. See Allium sativum.

satinum.

ALLIUM CEPA. Cepa. Allium:—scapo nudo inferned ventricoso longiore, foliis teretibus, of Linnæus. The Onion. Dr. Cullen says, onions are acrid and stimulating, and possess very little nutriment. With bilious constitutions they generally produce flatulency, thirst, headache, and febrile symptoms: but where the temperament is phlegmatic, they are of infinite service, by stimulating the habit and promoting the natural secretions narticularly expectoration and urine. They are tions, particularly expectoration and urine. They are recommended in scorbutic cases, as possessing antiscorbutic properties. Externally, onions are employed in suppurating poultices, and suppression of urine in children is said to be relieved by applying them, roasted, to the pubes.

ALLIUM PORRUM. The Leek or Porret. Every part of this plant, but more particularly the root, abounds with a peculiar odour. The expressed juice possesses diurctic qualities, and is given in the cure of dropsical diseases, and calculous complaints, asthma, and scurvy. The fresh root is much employed for

culinary purposes.

ALLIUM SATIVUM. Allium; Theriaca rusticorum. Garlick. Allium:—caule planifolio bulbifero, bulbo composito, staminibus tricuspidatis, of Linnawa. This species of Garlick, according to Linnawa, grows spontaneously in Sicily; but, as it is much employed for culinary and medicinal purposes, ft has been long very culmary and medicinal purposes, it has been long very generally cultivated in gardens. Every part of the plant, but more especially the root, has a pungent acri-monious taste, and a peculiarly offensive strong smell. This odour is extremely penetrating and diffusive; for, on the root being taken into the stomach, the alliaccous scent impregnates the whole system, and is discoverable in the various excretions, as in the urine, perspiration, milk, &c. Garlick is generally allied to the onion, from which it seems only to differ in being more powerful in its effects, and in its active matter, being in a more fixed state. By stimulating the stomach, they both favour digestion, and, as a stimulus, are readily diffused over the system. They may, therefore, be considered as useful condiments with the food of phleg matic people, or those whose circulation is languid, and secretions interrupted; but with those subject to inflam-matory complaints, or where great irritability prevails, these roots, in their acrid state, may prove very hurtful.

The medicinal uses of garlick are various; it has been long in estimation as an expectorant in pituitous asthmas, and other pulmonary affections, unattended with inflammation. In hot bilious constitutions, therefore, garlick is improper: for it frequently produces flatu-lence, headache, thirst, heat, and other inflammatory symptoms. A free use of it is said to promote the piles in habits disposed to this complaint. Its utility as a diuretic in dropsies is attested by unquestionable audiuretic in dropsies is attested by unquestronante au-thorities; and its febriling power has not only been experienced in preventing the paroxysms of intermit-tents, but even in subduing the plague. Bergius says quartans have been cured by it; and he begins by giving one butb, or clove, morning and evening, adding 47

every day one more, till four or five cloves be taken at a dose: if the fever then vanishes, the dose is to be diminished, and it will be sufficient to take one or two cloves, twice a day, for some weeks. Another virtue of garlick is that of an anthelminthic. It has likewise been found of great advantage in scorbutic cases, and in calculous disorders, acting in these not only as a diuretic, cuious disorders, acting in these not only as a diurcite, but, in several instances, manifesting a lithortriptic power. That the juice of alliaceous piants, in general, has considerable effects upon human calculi, is to be inferred from the experiments of Lobb; and we are abundantly warranted in asserting that a decoction of the beards of leeks, taken, liberally, and its use persevered in for a length of time, has been found remarkable descent. ably successful in calculous and gravelly complaints. The penetrating and diffusive acrimony of garlick, renders its external application useful in many disorders, as a rubefacient, and more especially as applied to the soles of the feet, to cause a revulsion from the head or breast, as was successfully practised and recommended breast, as was-successiny practised and recommender by Sydenham. As soon as an inflammation appears, the garlick cataplasm should be removed, and one of bread and milk be applied, to obviate excessive pain. Garlick has also been variously employed externally, to tumours and cutaneous diseases: and, in certain cases of deafness, a clove, or small bulb of this root, wrapt in gauze or muslin, and introduced into the wrapt in gauze or muslin, and introduced into the meatus auditorius, has been found an efficacious remedy. Garlick may be administered in different forms; swallowing the clove entire, after being dipped in oil, is recommended as most effectual; where this cannot be done, cutting it into pieces without bruising it, and swallowing these may be found to answer equally well, producing thereby no uneasiness in the fauces. On being beaten up and formed into pills, the active parts of this medicine soon evaporate: this Dr. Woodville, in his Medical Botany, notices, on the authority of Cullen, who thinks that Lewis has failen into a gross error, in supposing dry garlick more active than fresh. The syrup and oxymel of garlick, which formerly had a place in the British Pharmacopesias, are now expunged. formerly had a place in the British Pharmacopeius, are now expunsed. The cloves of garlick are by some bruised, and applied to the wrists, to cure agues, and to the bend of the arm to cure the toothache: when held in the hand, they are said to relieve hiccough; when beat with common oil into a poultice, they resolve sluggish humours; and, if laid on the navels of children, they are supposed to destroy worms in the integring. intestines.

ALLIUM VICTORIALE. Victorialis longa. The root, which when dried loses its alliaceous smell and taste. is said to be efficacious in allaying the abdominal spasms of gravid females.

ALLOCHROITE. A massive opaque mineral of a

grayish, yellowish, or reddish colour.

[This mineral resembles certain varieties of the garnet in some of its physical characters, but more parti-cularly in composition. It contains siles 37.0, lime 30.0, alumine 5.0, oxide of iron 18.5, oxide of manga-nese 6.25:=96.75. Clean. Min. A.] ALLOEO'SIS. (From αλλος, another.) Alteration

in the state of a disea

ALLOEO'TICA. (From allos, another.) Alteratives. Medicines which change the appearance of the dis-

ALLOGNO'SIS. (From αλλος, another, and γινωσκω, to know.) Delirium; perversion of the judgment; incapability of distinguishing persons.
ALLOPHANE. A mineral of a blue, and some-

ALLOPHANE. A finite at  $\alpha$  to the state contents agreen or brown colour.

ALLOPHASIS. (From  $\alpha\lambda$ ), another, and  $\phi$  aw, to speak.) According to Hippocrates, a delirium, where the patient is not able to distinguish one thing

from another. ALLOTRIOPHA'GIA. (From allorques, foreign, and  $\phi a \gamma \omega$ , to eat.) In Vogel's Nosology, it signifies the greedily eating anusual things for food. See Picca. ALLOY. Allay. I. Where any precious metal is mixed with another of less value, the assayers call the latter the alloy, and do not in general consider it in any other point of view than as debasing or diminishing the value of the precious metal. value of the precious metal.

2. Philosophical chemists have availed themselves of this term to distinguish all metallic compounds in geperal. Thus brass is called an alloy of copper and zinc; bell metal an alloy of copper and tin.

Every alloy is distinguished by the metal which pre-

dominates in its composition, or which gives it its vadominates in its composition, or which gives it its va-lue. Thus English jewellery trinkets are ranked under alloys of gold, though most of them deserve to be placed under the head of copper. When mercury loo one of the component metals, the alloy is called amal-gam. Thus we have an amalgam of gold, silver, tin, Since there are about thirty different permanent acc. Since there are about thirty different permanent metals, independent of those evanescent ones that constitute the bases of the alkalies and sarths, there ought to be about 570 different species of binary alloy. But only 132 species have been hitherto made and examined. Some metals have so little affinity for others, that as yet no compound of them has been effected, whatever pains have been taken. Most of these obstacles to alloying, arise from the difference in fusibility and volatility. Yet a few metals, the melting point of which is nearly the same, refuse to unite. It is obvious that two bodies will not combine, unless their affinity or reciprocal attraction be stronger than the cohering nity or reciprocal attraction be stronger than the cohesive attraction of their individual particles. To over-come this cohesion of the solid bodies, and render afficome this conesion of the solut bodies, and render am-nity predommant, they must be penetrated by caloric. If one be very difficult of fusion, and the other very volatile, they will not unite unless the reciprocal attraction be exceedingly strong. But if their degree of usibility be almost the same, they are easily placed in the circumstances most favourable for making an in the circumstances most invotrante for making alloy. If we are therefore far from knowing all the binary alloys which are possible, we are still further removed from knowing all the triple, quadruple, &c. which may exist. It must be confessed, moreover, that this department of chemistry has been imperfectly cultivated. cultivated.

cultivated.

Besides, alloys are not, as far as we know, definitely regulated like oxydes in the proportions of their component parts. 100 parts of mercury will combine with 4 or 8 parts of oxygen, to form two distinct oxydes, the black and the red; but with no greater, less, or intermediate proportions. But 100 parts of mercury will unite with 1, 2, 3, or with any quantity up to 100 or 1000, of tin or lead. The alloys have the closest relations in their physical properties with the metals. They are all solid at the temperature of the atmosphere, except some amalgans; they possess metallic lustre, even when reduced to a coarse powder; are completely opaque, and more or less dense, according instre, even when reduced to a coarse powder: are completely opaque, and more or less dense, according to the metals which compose them; are excellent conto the metals which compose them; are excellent conductors of electricity; crystallize more or less perfectly; some are brittle, others ductile and malleable; some have a peculiar odour; several are very somorous and elastic. When an alloy consists of metals differently fusible, it is usually malleable while cold, but brittle while hot; as is exemplified in brass.

The density of an alloy is sometimes greater, sometimes less than the mean density of its components, showing that, at the instant of their union, a diminustance of the components of the components.

showing that, at the instant of their union, a diminu-tion or augmentation of volume takes place. The rethat or augmentation of voutine takes piace. The relation between the expansion of the separate metals and that of their alloys, has been investigated only in a very few cases. Alloys containing a volatile metal are decomposed, in whole or in part, at a strong heat. This happens with those of arsenic, mercury, tellurium, and zinc. Those that consist of two differently fusible metals, may often be decomposed by corrections. and zinc. Those that consist of two differently fusible metals, may often be decomposed by exposing them to a temperature capable of melting only one of them. This operation is called eliquation. It is practised on the great scale to extract silver from copper. The argentiferous copper is melted with 31-2 times its weight of lead; and the triple alloy is exposed to a sufficient heat. The lead carries off the silver in its fusion, and leaves the copper under the form of a spongy lump. The silver is a afterward recovered from the lead by another operation.

nother operation.

Some alloys oxydize more readily by heat and air, some alloys oxydize more readily by heat and air, the some state of t than when the metals are separately treated. Thus 3 of lead and 1 of tin, at a dull red, burn visibly, and are almost instantly oxydized. Each by itself in the same circumstances, would oxydize slowly, and without the disengagement of light.

out the disengagement of light.

The formation of an alloy must be [regulated by the nature of the particular metals.

The degree of affinity between metals may be in some measure estimated by the greater or less facility with which, when of different degrees of fusibility or volatility, they unite, or with which they can after union be separated by heat. The greater or less tendency to separate into different proportional alloys, by long-con-

tinued fusion, may also give some information on this ! subject. Mr. Hatchett remarked, in his admirable researches on metallic alloys, that gold made standard with the usual precautions by silver, copper, lead, antiwith the usual precautions by silver, copper, lead, antimony, &c., and then east into vertical bars, was by no means a uniform compound; but that the top of the bar, corresponding to the metal at the bottom of the crucible, contained the larger proportion of gold. Hence, for thorough combination, two red-hot crucibles should be employed; and the liquified metals should be alternately poured from the one into the other. And to prevent unnecessary oxydizement by exposure to air, the crucibles should contain, besides the metal. the metal, a mixture of common salt and pounded charcoal. The melted alloy should also be occasion-

ally stirred up with a rod of pottery.

The most direct evidence of a chemical change hav-The most direct evidence of a chemical change having taken place in the two metals by combination, is when the alloy melts at a much lower temperature than the fusing points of its components. Iron, which is nearly infusible, when alloyed with gold acquires almost the fusibility of this metal. Thi and lead form solder, an alloy more fusible than either of its components. nents, but the triple compound of tin, lead, and bis-muth, is most remarkable on this account. The ana-logy is here strong, with the increase of solubility which salts acquire by mixture, as is exemplified in the uncrystallizable residue of saline solutions, or mothe uncrystantizane resume of same southors, or mo-ther waters, as they are called. Sometimes two me-tals will not directly unite, which yet, by the interven-tion of a third, are made to combine. This happens with mercury and fron, as has been shown by Messer. Aiken, who effected this difficult amalgamation by previously uniting the iron to tm or zinc.

The tenacity of alloys is generally, though not always, interior to the mean of the separate metals. One part of lead will destroy the compactness and tenacity of a thousand of gold. Brass made with a small proportion of zinc, is more ductile than copper itself; but when one-third of zinc enters into its com-

position, it becomes brittle.

In common cases, the specific gravity affords a good criterion whereby to judge of the proportion in an alloy, consisting of two metals of different densities.—

ALLSPICE. See Myrtes Pimenta.
ALLUVIAL. That which is deposited in valleys, or in plains, from neighbouring mountains, or the overflowing of rivers. Gravel, loam, clay, sand, brown coal, wood coal, bog iron ore, and calc tuff, compose the alluvial deposites.

A'LMA. The first motion of a fœtus to free itself.

from its confinement.

2. Water.-Rulandus

ALMABRI. A stone like amber.

ALMA'NDA CATHARTICA. A plant growing on the shores of Cayenne and Surinam, used by the inhabitants as a remedy for the colic; supposed to be cathartic.

thartic.

ALMOND. See Amagdalus.
Almond, bitter. See Amagdalus.
Almond, sweet. See Amagdalus.
Almond paste. This cosmetic for softening the skin and preventing chops, is made of four owners of blanched bitter almonds, the white of an egg, rose wallow.

ter and rectified spirits, equal parts, as much as is suf-

Almonds of the ears. A popular name for the tonsils, which have been so called from their resemblance to an almond in shape. See Tonsils.

.Himonds of the throat. A vulgar name for the tonsils. See Tonsils.

ALNABATI. In Avicenna and Serapion, this word means the seliqua duteis, a gentle laxative. See Ce-

ratonia siliqua. (Alno, Italian.) The alder. The pharmacoperial name of two plants, sometimes used in medicine, though rarely employed in the present practice.

dicine, though rarely employed in the present practice.

1. Anus rotunnijolia; glutinusa; viridis. The common alder-twee. See Reluta almus.

2. Almus nigra. The black or berry-bearing alder. See theamnus Frangula.

A'LOE. (Alot, &s. fr. from ahlah, a Hebrew word, eignifying growing near the sea.) The name of a genus of plants of the Linnean system. Closs Hezandria; Order, Monogynia. The Aloe.

Alot Caballina. Sec Alot perfoliata.

ALOE PERFOLIVEA. Alot Successiving; Alot Zocotorina. Successiving alos is obtained from a variety of the Alot perfoliata of Linnœus:—foliis caulinis dentatis, amplexicaulibus vaginantibus, floribus corymbosis cernais, pedanculatis subcaltanteis. It is brought over wrapped inskins, from the Island of Sociotora, in the Indian Ocean; it is of a bright surface, and in some degree peliucid; in the lump of a yellowish red colour, with a purplish east; when reduced into powder, it is of a bright surface, and in some degree peliucid; in the lump of a yellowish red colour, with a purplish east; when reduced into powder, it is of a golden colour. It is hard and friable in very cold weather; but in summer it softens very easily between the fingers. It is extremely bitter, and also accompanied with an anomatic flavour, but not so much as to cover its disagreeable taste. Its and also accompanied with an aromatic havour, our not so much as to cover its disagreeable taste. Its scent is rather agreeable, being somewhat similar to that of myrrh. Of late this sort has been very scarce, and its place in a great measure supplied by another variety, brought from the Cape of Good Hope, which is said to be obtained from the Aloë spicata of Linnatus, by inspissating the expressed juice of the leaves, whence it is termed in the London Pharmacopoia Estractum alois spicatae.

'The Aloe hepatica, vel Barbadensis, the common or

The Alok hepatica, vel Barbadensis, the common or Burbadose or hepatic aloes, was thought to come from a variety of the Alok perfoliata described —floribus produmentatis, cerusic scorpulosis, subaplindric is, folias sprinsis, confertis, dentatis, regimentolus, planic, maculatis; but Dr. Smith has announced, that it will be shown in Stallborp's Flora Gracea, to be from a distinct species, the Alox vulgaris, or true alon of Dioscorides; species, the Alvé and paris, or true along of Dioscorides; and it is therefore termed in the London Plarmacopeia, Aloës vulgaris extractum. The best is brought from Darbadoes in large gourd-shells; an inferior sort in pots, and the worst in casks. It is darker coloured than the Socotorine, and not so bright; it is also drier and more compact, though sometimes the sort in casks is soft and clammy. To the taste it is intensely bitter and nauseous, being almost wholly without that aroma which is observed in the Socotorine. To the smell

it is strong and disagreeable.

The Alos caballina, vel Guineensis, or horse-aloes, is easily distinguished from both the foregoing, by its strong rank smell; in other respects it agrees pretty strong rank smeil; in other respects it agrees prefuger much with the hepatic, and is now not unfrequently sold in its place. Sometimes it is prepared so pure and bright as scarcely to be distinguishable by the eye, even from the Socotorine, but its offensive smell be-trays it; and if this also should be dissipated by art, its wanting the aromatic flavour of the finer aloes will be a sufficient criterion. This aloe is not admitted into the materia medica, and is employed chiefly by

The general nature of these three kinds is nearly the same. Their particular differences only consist in the different proportions of gum to their resin, and in their flavour. The smell and taste reside principally in the gum, as do the principal virtues of the aloes. Twelve onnees of Barbadoes aloes yield nearly 4 ounces of resin, and 8 of gummy extract. The same quantity of Sociotrine aloes yields 3 ounces of resin and 9 of gummy extract. my extract.

Aloes is a well-known stimulating purgative, a property which it possesses not only when taken inter-nally, but also by external application. The cathartic quality of aloes does not reside in the resinous part of the drug, but in the gum, for the pure resin has little or no purgative power. Its medium dose is from 5 to 15 grains nor does a larger quantity operate more effecunily. Its operation is exerted on the large intestines; principally on the rectum. In small doses long continued, it often produces much heat and irritation, particularly about the anus, from which it sometimes recurary about the anus, from which it sometimes oc-casions a bloody discharge; therefore, to those who were subject to piles, or of an hamorrhagic diathesis, or even in a state of pregnancy, its exhibition has been productive of considerable mischief; but on the con-trary, by those of a phlegmatic constitution, or those suffering from uterine obstructions (for the stimulant suffering from uterine obstructions (for the sulmans action of alone, it has been supposed, may be extended to the uterus; and in some cases of dispepsia, pulsy, gout, and worms, alone may be employed as a laxative with peculiar advantage. In all diseases of the billous tribe, alone is the strongest purge, and the best preparations for this purpose are the public ex alone cun myrrha, the tinctura alods, or the extractum colocythidis

compositum. Its efficacy in jaundice is very considerable, as it proves a succedaneum to the bile, of which in that disease there is a defective supply to the which in that cases times is a detective supply to fulfestine either in quantity or quality. Aloes therefore may be considered as injurious where inflammation or irritation exists in the bowels or neighbouring parts, in pregnancy, or in habits disposed to piles; but highly seviceable in all hypochondrica affections, cachectic habits, and persons labouring under oppression of the stomach caused by irregularity. Aromatics correct the offensive qualities of aloes the most perfectly. The canella alba answers tolerably, and without any inconvenience; but some rather prefer the essential oils for this purpose. Dr. Cullen says, "If any medicine be entitled to the appellation of a stomach purge, it is certainly aloes. It is remarkable with regard to it, that it operates almost to as good a purpose in a small as in a large dose; that one or two grains will produce one considerable dejection, and 20 grains will do no more, except it be that in the last dose the operation will be attended with gripes, &c. Its chief use is to render the peristaltic motion regular, and it is one of the best curse; in labilitual cogityeness. There is The canella alba answers tolerably, and without any one of the best cures in habitual costiveness. one of the best cures in habitual costiveness. There is a difficulty we meet with in the exhibition of purgatives, viz. that they will not act but in their full dose, and will not produce half their effect if given in half the dose. For this purpose we are chiefly confined to aloes. Neutral salts in half their dose will not have half their effect; although even from these, by large dilution, we may obtain this property; but besides them and our present medicine, I know no other which has any title to it except sulphur. Aloes sometimes cannot be employed. It has the effect of stimulating the rectum more than other purges, and with lating the rectum more than other purges, and with justice has been accused of exciting hamorrhoidal swellings, so that we ought to abstain from it in such cases, except when we want to promote them. Aloes has the effect of rarifying the blood and disposing to hæmorrhagy, and hence it is not recommended in ute-rine fluxes. Fætid gums are of the same nature in producing hæmorrhagy, and perhaps this is the foundaproducing hemorrhagy, and perhaps this is the foundation of their emmenagone power." Aloes is administered either simply in powders, which is too nauscous, or else in composition;—1. With purgatives, as soap, scammony, colocynth, or rhubarb. 2. With aromatics, as canella, ginger, or essential oils. 3. With bitters, as gentiam. 4. With emmenagogues, as iron, myrrh, wine, &c. It may be exhibited in pills as the most convenient form, or else dissolved in wine, or diluted alkohol. The officinal preparations of aloes are the following:—

are the following:-1. Pilulæ Aloës.

Pilula Aloes Composita

Pilula Aloës cum Assafœtida. Pilula Aloës cum Colocynthide. Pilula Aloës cum Myrrha.

Tinctura Aloës.
Tinctura Aloës Ætherialis.
Tinctura Aloës et Myrrha.

Vinum Aloës.

Extractum Aloës
 Decoctum Aloës Compositum.

12. Pulvis Aloës Compositus.
13. Pulvis Aloës cum Canella.

Pulvis Aloes cum Guaiaco. Tinctura Aloes Composita.

16. Extractum Colocynthidis Compositum.

Tinctura Benzoini Composita

Alos Socotorina. See Alos perfoliata.
Alos Zocotorina. See Alos perfoliata.
Alos Zocotorina. See Alos perfoliata.
ALOSDÁ'RIA. (From Alon, the aloe.) Compound
purging medicines: so called from having aloes as the Compound hief ingredient.

ALOEPHANGINA. Medicines formed by a combina-

tion of aloes and aromatics,
ALOES. Fel natura. The inspissated juice of the ALOUES. Fet manne. The inspissate quice of male plant. Aloes is distinguished into three species, socotorine, hepatic, and caballine; of which the two first are directed for officinal use in our pharmacopoias. See Alos perfoliata.

ALOES LIGNUM. See Lignum Aloes.

ALOE TIC. A medicine wherein aloes is the chief or fundamental ingredient.

Αιοσοτειο ρεπιλ. (From αλογος, disproportionate, and τουφω, to nourish.) Unequal nourishment, as in the rickets.

muscles are so called by Fallopius and Vesalius be-

muscles are so called by Fallopius and Vesalius Decause in the fox they are particularly strong.

ALOPE CIA. (From αλωπος, a fov: because the fox is subject to a distempte that resembles it; or, as some say, because the fox's unine will occasion bald ness.) Baldness, or the falling off of the hair. A genus of disease in Sauvages Nosology.

ALOPECUROIDEA. (From atopecurus, the foxtail grass.) Resembling the alopecurus. The name of a division of grasses.

of a division of grasses.

ALO'SA. (From αλισκω, to take: because it is ra-enous.) See ('lupea alosa.

venous.) See Clupea alosa. Alosa/nthi. (From aλς, salt, and aνθος, a flower.) Alosanthum. Flowers of salt.

Alosanthum. Flowers of A'LOSAT. Quicksilver. ALOSOHOC. Quicksilver.

Quicksilver A'LPHITA. (Alphata, the plural of αλφατον, the meal of barley in general.) By Hippocrates this term is applied to barley -meal either toasted or filed. Galen says that  $\kappa\rho\iota\mu\nu\alpha$  is coarse meal, alsopor is fine meal, and alphera is a middling sort.

ALPHI TIDON. Alphitedum. It is when a bone is broken into small fragments like alphite or bran.

Aleno'nsin. The name of an instrument for extracting balls. It is so called from the name of its inventor, Alphonso Ferrier, a Neapolitan physician. It consists of three branches, which separate from each other by their elasticity, but are capable of being closed by means of a tube in which they are included.

by means of a tube in which they are included.
ALPHIOSTS. The specific name of a disease in the
genus Epichrosis of Good's Nosology.
ALPHIOS. (Αλφος; from αλφαινω, to change: because it changes the colour of the skins.) A species of
leprosy, called by the ancients releage, and which
they divided into alphas, melas, and lence. See Lepra.
ALPHINI BALSAMUM. Balm of Gilead.
ALPHINUS, PROSPER, a Venetian, born in 1553,
celebrated for his-skill in medicine and betany. After

graduating at Padra, he went to Egypt, and during three years carefully studied the plants of that country,

and the modes of treating diseases there; of which and the modes of treating diseases there; of winds the afterward published a very learned account. He has left also some other less important works. He was appointed physician to the celebrated Andrew Doria; and subsequently botanical professor at Padua,

which office he retained till his death in 1616.
A LSINE. (Alsine, es. f.: from aloos, a grove: so called because it grows in great abundance in woods and shady places.) The name of a genus of plants in the Linnean system. Class, Pentandria; Order, Tri-

gyria. Chickweed.

ALSINE MEDIA. Morsus gallina centunculus. systematic name for the plant called chickweed, which, if boiled tender, may be eaten like spinach, and forms

also an excellent emollient poultice.

also an excellent emothent poultice.

ALSTON, CHARLES, born in Sociland in 1683, was early attached to the study of botany, and distinguished himself by opposing the sexual system of Linnaeus, the afterward studied under Boerhaave at Leydon; then returning to his native country, was materially instrumental, in conjunction with the celebrated Alexandria. ander Mono, in establishing the nedical school at Ddinburgh, where he was appointed professor of bo-tany and materia medica. He died in 1690. His "Lectures on the Materia Medica," a posthumous work, abound in curious and useful facts, which will lang preserge their reputation.

work, about an expense and useful racts, which will long preserve their reputation.

A'LTERATIVE. (Alterans; from altera, to change.) Alterative medicines are those remedies which are given with a view to re-establish the healthy functions of the animal economy, without producing

any sensible evacuation.

ALTERNÆ PLANTÆ. Alternate leaved plants. The name of a class of plants in Sauvages' Methodus

ALTERNANS. Alternate; placed alternately. A term applied by botamists to leaves, gene. &c.
ALTERNUS. Alternate. In botany, this term is applied to branches and leaves when they stand singly applied to training and the training applied to the state that between every two on one side there is but one on the opposite side, as on the branches of the Althea officinalis, Rhammus catharticus, and leaves of the Malor re-

tundifolia. ALTHÆA. (Althæa, æ.f.; from  $a\lambda\theta\varepsilon\omega$ , to heal: so called from its supposed qualities in healing.) ALO PICES. (From aλωπηξ, the fox.) The psox The name of a genus of plants of the Linnæan system

Class, Monadelphia; Order, Polyandria. Marsh-

2. The pharmacopæial name of the marsh-mallow.

See Althea Officinalis.

ALTHEA OFFICINALIS. The systematic name of the marsh-mallow. Malvaviscus; Aristuthuca. Althea:—foliis simplicibus tomentosis. The mucliaginous matter with which this plant abounds, is the medicinal part of the plant; it is commonly employed for its emollient and demulcent qualities in tickling coughs, hoarseness, and catarrbs, in dysentery, and difficulty and heat of urine. The leaves and root are generally selected for use. They relax the passages in nephritic complaints, in which last case a decoction is the best preparation. Two or three ounces of the fresh roots may be boiled in a sufficient quantity of water to a quart, to which one ounce of gum-arabic ALTHEA OFFICINALIS. The systematic name of water to a quart, to which one ounce of gunrarable may be added. The following is given where it is required that large quantities should be used. An ounce of the dried roots is to be boiled in water, chough to of the dried roots is to be bolika in water, chough to leave two or three pints to be poured off for use: if more of the root be used, the liquor will be disagreeably slimy. If sweetened, by adding a little more of the root of liquorice, it will be very palatable. The root had formerly a place in many of the compounds to the disagreeably as the state of the compounds. in the pharmacopæias, but now it is only directed in

The form of syrup.

Λετικ΄ xis. (From αλθειν, to cure, or heal.) Hippocrates often uses this word to signify the cure of a

A hollow sphere of stone, glass, or ALUDEL. earthenware, with a short neck projecting at each end, by means of which one globe might be set upon the other. The uppermost has no opening at the top. They were used in former times for the sublimation of Beveral substances.

ALUM. See Alumen.

ALUM EARTH. A massive mineral of a blackish brown colour, a dull lustre, an earthy and somewhat slaty fracture, sectile and rather soft, containing charcoal silica, alumina, oxyde of iron, sulphur, sulphates of lime, potassa, and iron, magnesia, muriate of po-

A massive mineral of a bluish black

ALUM SLATE. A massive mit colour, or slate containing alum. ALUMEN. (Alum, an Ara ALU MEN. (Alum, an Arabian word.) Assos; Azub; Aseb; Elanula; Sulphas alumuna acidulus cum potassā; Super-sulphas alumuna to potassa; Argilla vitriolata. Alum. This important satt has been the object of immunerable researches both with regard to its fabrication and composition It is produced, but in a very small quantity, in the native state and this is mixed with heterogeneous matters. It effloresces in various forms upon pres during calcination, but it seldom occurs crystallized. The greater

tion, but it seldom occurs crystallized. The greater part of this salt is factitious, being extracted from minerals called alum ores, such as

1. Sulphuretted clay. This constitutes the purest of all aluminous ores, namely, that of La Tolfa, near Civita Vecchia, in Italy. It is white, compact, and as hard as indurated clay, whence t is called perta aluminaris. It is tasteless and mealy; one hundred parts of this ore contain above forty of sulphur and fifty of clay, a small quantity of potassa, and a little iron. Bergman says it contains forty-three of sulphur in one hundred, hitter-five of clay, and the truty-five of clay, and the contains forty-three of sulphur in one hundred, thirty-five of clay, and twenty-two of siliceous earth. This ore is first torrefied to acidify the sulphur,

which then acts on the clay, and forms the alum.

2. The pyritaceous clay, which is found at Schwemsal, in Saxony, at the depth of ten or twelve feet. It is a black and hard, but brittle substance, consisting of is a black and hard, but ortice substance, constant of clay, pyrites, and bitumen. It is exposed to the air for two years, by which means the pyrites are decomposed, and the alum is formed. The alum ores of Hesse and Liege are of this kind; but they are first torrefied, which is said to be a disadvantageous

3. The schistus aluminaris contains a variable pro ortion of petroleum and pyrites intimately mixed with it. When the last are in a very large quantity, this ore is rejected as containing too much iron. Professor Bergman very properly suggested, that by adding a proportion of clay, this ore may turn out advantage-busly for producing alum. But if the petrol be considerable, it must be torrefied. The mines of Becket in Normandy, and those of Whitby, in Yorkshire, are of this species. of this species.

4. Volcanic aluminous ore. Such is that of Salfateria near Naples. It is in the form of a white saline earth, after it has effloresced in the air: or else it is in a stony form.

5. Bituminous alum ore is called shale, and is in the form of a schistus, impregnated with so much oily matter, or bitumen, as to be inflammable. It is found in Sweden, and also in the coal mines at Whitehaven,

and elsewhere.

Chaptal has fabricated alum on a large scale from its component parts. For this purpose he constructed a chamber 91 feet long, 48 wide, and 31 high in the middle. The walls are of common masonry, lined with a pretty thick coating of plaster. The fioor is paved with bricks, bedded in a mixture of raw and burnt clay; and this pavement is covered with another, the joints of which overlap those of the first, and instead of mortar, the bricks are joined with a cement of equal parts of pitch turpentine, and wax, which, after having been boiled till it ceases to swell, is used hot. The roof is of wood, but the beams are very close together, and grooved lengthwise, the intermediate space being filled up by planks fitted into the grooves, so that the whole is put together without a Chaptal has fabricated alum on a large scale from grooves, so that the whole is put together without a nail. Lastly, the whole of the inside is covered with three or four successive coatings of the cement abovementioned, the first being laid on as hot as possible; mentioned, the first being laid on as hot as possible; and the oniside of the wooden roof was varnished in the same manner. The purest and whitest clay being made into a paste with water, and formed into balls half a foot in diameter, these are calcined in a furnace, broken to pieces, and a stratum of the fragments laid on the floor. A due proportion of sulphur is then ignited in the chamber, in the same manner as for the fabrication of sulphuric acid; and the fragments of burnt clay, imbibing this as it forms, begin after a few days to creak and owns and exhibit an effurescence. burnt clay, imbibing this as it forms, begin after a few days to crack and open, and exhibit an efflorescence of sulphate of alumina. When the earth has completely effloriseced, it is taken out of the chamber, exposed for some time in an open shed, that it may be the more intimately penetrated by the acid, and is then lixiviated and crystallized in the usual manner. The cement answers the purpose of lead on this occasion very effectually, and, according to Chaptal, costs no more than lead would at three farthings a pound.

Carvallant has leady recommended a process for

Curaudau has lately recommended a process for making alum without evaporation. One hundred parts of clay and five of muriate of soda are kneaded parts of clay and five of muriate of soda are kneaded into a paste with water, and formed into loaves. With these a reverberatory furnace is filled, and a brisk fire is kept up for two hours. Being powdered, and put into a sound cask, one-fourth of their weight of sutphurie acid is poured over them by degrees, stirring the mixture well at each addition. As soon as the muriatic gas is dissipated, a quantity of water equal to the acid is added, and the mixture stirred as before. When the heat is abated, a little more water is poured in; and this is repeated till eight or ten times as much water as there was acid is added. When is poured in; and this is repeated fill eight or ten times as much water as there was acid is added. When the whole has settled, the clear liquor is drawn off into leaden vessels, and a quantity of water equal to this faquor is poured on the sediment. The two liquors being mixed, a solution of potassa is added to them, the elliphi in which is equal to one-fourth of the weight of the sulphuric acid. Sulphate of potassa may be used, but twice as much of this as of the alkali is necessary. After a certain time, the liquor, by coolnecessary. After a certain time, the liquor, by coolnecessary. After a certain time, the aquot, by coning, affords crystals of alum equal to three times the weight of the acid used. It is refined by dissolving it in the smallest possible quantity of boiling water. The residue may be washed with more water, to be employed in lixiviating a fresh portion of the ingre-

Its sp. gravity is about 1.71. It reddens the vegetable blues. It is soluble in 16 parts of water at 60°, and in 3-4 of its weight at 212°. It efforesces superficielly on the control of and in 3-4 of its weight at 2120. It efforesces superficially on exposure to air, but the interior remains long unchanged. Its water of crystallization is sufficient at a gentle heat to fuse it. If the heat be increased it froths up, and loses fully 45 per cent. of its weight in water. The spongy residue is called burnt or calcined alum, and is used by surgeons as a mild escharotic. A violent heat separates a great portion of its acid. Alum was thus analyzed by Berzelius: 1st, 20 parts (grammes) of pure alum lost, by the heat of a spirit lamp, 9 parts, which gives 45 per tent. of water. The dry salt was dissolved in water, and its acid precipi-

tated by muriate of barytes; the sulphate of which, obtained after ignition, weighted 30 parts; indicating in 100 parts 34.3 of dry sulphueic acid. 2d. Tree parts of alum were dissolved in water, and digasted with an excess of ammonia. Alumina, well washed and burned, equivalent to 10.57 per cent, was obtained. In numed, equivalent to 1039 per cent, was obtained. In another experiment, 10.86 per cent, resulted, 3d, Ten parts of alum dissolved in water, were digested with carbonate of strontites, till the earth was completely separated. The sulphate of potassa, after rantion, weighed 1.815, corresponding to 0.921 potassa, or in 100 coarts to 981 100 parts to 9.81.

Alum, therefore, consists of Sulphuric acid...... 34.33 Alumina...... 10.86 Potassa...... 9.81 Water...... 45.00

or, Sulphate of alumina...... 36.85 Sulphate of potassa...... 18.15 Water ..... 45.00

103.00

Thenard's analysis, Ann. de Chimie, vol. 59, or Ni-cholson's Journal, vol. 18, coincides perfectly with that of Berzelius in the product of sulphate of barytes. that of Berzenus in the product of simplane of barytes. From 400 parts of alum, he obtained 4:00 of the igniced barytic salt; but the alumina was in greater proportion, equal to 12.34 per cent, and the sulphate of potassa less, or 15.7 in 100 parts. Vauquelin, in his last analysis, found 48.58 water; and by Thenard's statement there are indicated

34.23 dry acid, 7.14 potassa, 12.54 alumina, 46.09 water.

If we rectify Vauquelin's erreneous estimate of the sulphate of barytes, his analysis will also coincide with the above. Alum, therefore, differs from the simple sulphate of alumina previously described, which consisted of 3 prime equivalents of acid ann 2 of earth, merely by its assumption of a prime of sulphate of potassa. It is probable that all the aluminous saits have a similar constitution. It is to observed, moreover, that the number 34.36 resulting from the theoretic proportions, is, according to Calbartie as theoretic proportions, is, according to Gilbert's remarks on the Essay of Berzebus, the just representation of the dry acid in 100 of sulphate of barytes, by a cor-

of the dry acid in 100 of sulphate of barytes, by a corrected analysis, which makes the prime of barytes 9.57. Should ammonia be suspected in alam, it may be detected, and its quantity estimated, by miving quick lime with the saline solution, and exposing the oriviture to heat in a retort, connected with a Woolie's apparatus. The water of ammonia being afterward saturated with an acid, and evaporated to a dry sult, will indicate the quantity of pure ammonia in the alum. A variety of alum, containing both poinsess and ammonia, may also be found. This will occur where urine has been used, as well as murrate of potassa, in its fabrication. If any of these bisinplates of alumina and potassa be acted on in a watery solution, by mina and potassa be acted on in a watery solution, by gelatinous alumina, a neutral triple salt is formed,

which precipitates in a nearly insoluble state.
When alum in powder is mixed with flour or sugar, and calcined, it forms the pyrophorus of Homberg.
Mr. Winter first mentioned, that another vaniety of

alum can be made with soda, instead of potassa. This sail, which crystallizes in octahedrous, has been also made with pure muriate of soda, and hisulphase of alumina, at the laboratory of fluriett, by Mr. W. Williams, at the laboratory of fluriett, by Mr. W. Williams, and his sail productions of the sail son. It is extremely difficult to form, and enlore

| Sulphuric acid 34.00 | 4  | prime | s, 33.96 |
|----------------------|----|-------|----------|
| Abunina 10.75        | 3  | -     | 10.82    |
| Soda 6.48            | 1  |       | 8.79     |
| Water 49.00          | 25 |       | 45.43    |
|                      |    |       |          |

Or it consists of 3 primes sulphate of alumina+1 sulphate of seda. To each of the former, 5 primes of water may be assigned, and to the latter 10, as in

The only injurious contamination of alum is sul-late of iron. It is detected by ferro-prussiate of phate of iron.

Oxymuriate of alumina, or the chloride, has been proposed by Mr. Wilson of Dublin, as preferable to

solution of chlorine, for discharging the tarkey-red die.

Alam is used in large quantities in many manufactories. When added to tallow, it renders it harder.

Printer's cushious, and the blocks used in the calico Printer's cusmons, and the blocks used in the canco-manufactory, are rubbed with hunt alum to remove any greasiness, which might prevent the ink or colour from sticking. Wood sufficiently soaked in a solution of alum does not easily take fire; and the same is true of paper impregnated with it, which is fitter to keep gumoevdeq, as it a -b geludes moisture. Paper im-pregnated with alum is useful in whitening silver, and in silvering biass without heat. Alone mixed in milk helps the separation of its butter. If added in a very small quantity to unbid water, in a few minutes it renders it perfectly limpid, without any bad taste or quality; while the sulphuric acid imparts to it a very sensible acidity, and does not precipitate as soon, or so well, the opaque earthy mixtures that render it turbid. well, the opaque earthy mixtures that render it turbid. It is used in making pyrophorus, in tanning, and in many other manufactories, particularly in the art of dying, in which it is of the greatest and most important use, by cleansing and opening the pores on the surface of the substance to be died, rendering it fit for receiving the colouring particles, (by which the alum is generally decomposed.) and at the same time making the colour fixed. Crayons generally consist of the earth of alum psyndered and invade for the parents. earth of alum, powdered and tinged for the purpose.

Ure's Chem. Diet.

In medicine it is employed internally as a powerful astringent in cases of passive homorrhages from the womb, intestines, nose, and sometimes lungs. In bleedings of an active nature, i. e. attended with fever, bleedings of an active nature, i. e. attended with fever, and a pietopric state of the system, it is highly improper. Dr. Percival recommends it in the colica pictonum and other chronic disorders of the bowels, attended with obstinate constipation. (See Percival's Essays.) The dose advised in those cases is from 5 to 20 grains to be repeated every four, eight, or twelve froms. When duly passisted in, this remedy proves gently laxarive, and mitigates the pain. Alum is also powerfully tonic, and is given with this view in the dose of 10 grains made into a bolus three times a day, in such cases as require powerful fortic.

times a day, in such cases as require poweron con-and astringent remedies. Another mode of adminis-tering it is in the form of whey made by boiling a drawing of powdered alum in a pint of milk for a few minutes, and to be taken in the quantity of a tea cup full three times a day. Dr. Cullen thinks it ought to be employed with other astringens in diarrheas. In times a day, in such cases as require powerful tonic active hemorrhages, as was observed, it is not useful, though a powerful medicine in those which are passive. It should be given in small doses, and gradually increased. It has been tried in the diabetes without success; though, joined with nuture, it has been more success; though, joined with nuture, it has been more success; though, joined with nuture, it has been more success; though, joined with nuture, it has been more success; though, joined with nuture, it has been more success though, joiner will like it is a large dose, and hour or a little longer, before the approach of the patoxysm. In gargles, in relaxation of the ward, and order swellings of the mucous a castrame of the fances, divested of acute inflammation, it has been used with

son. It is extremely difficult to form, and enforcesses like the sulplate of soda.

On the subject of seda-alum, Dr. Ure published a short paper in the Journal of Science for July, 1822, The form and taste of this satt are exactly the same as those of common alum; but it is less hard, being easily crushed between the fugers, to wright it improves an appearance of moisture. Its specific gravity is 1.6, 100 parts of water at 60°F. dissolve 110 or it; forming a subtron, whose sp. gravity is 1.26. In this respect, potassa alum isvery different. For 160 parts of water at 60°F, dissolve 110 or it; forming a subtron, whose sp. gravity is 1.26. In this respect, potassa alum isvery different. For 160 parts of water dissolve only from 8 to 9 parts, forming a saturated so-cluster of entarglasm, which is made by stirring dissolve only from 8 to 9 parts, forming a saturated so-cluster of substances and the subject of substances and the optimal substances. It is also applied as a stypic or hereding vessels, and to care, where there is no copious a secretion of pussion of substances and the optimal substances.

is also employed as an injection in cases of gleet or f of the alumina not decompounded; and in this mass

When deprived of its humidity, by placing it in an earthen pan over a gentle fire, it is termed burnt alean alumen essecotum, and is sometimes employed by sar geons to destroy fungous flesh, and is a principal ingredient in most styptic powders.

Alum is also applied to many purposes of life; in this country, bakers mix a quantity with the bread, to render it white; this mixture makes the bread better adapted for weak and relaxed bowels; but in opposite states of the alimentary canal, this practice is linguly

The officinal preparations of alum are:

Alumen exsiccatum.

Solutio sulphatis cupii ammoniati.

Liquor aluminis compositus.

Pulvis sulphatis alumnis compositus. ALUMEN CATINUM. A name of potassa. Alumen commune. See Alumen.

ALUMEN CRYSTALLINUM. See . Humen

ALUMEN EXSECUTION. Dried Alam. Expose about in an earthen vessel to the fire, so that it may desolve and bod, and of the heat be confined until the boding ceases. See Alamen. ALUMEN PACTITION. See Alemen. ALUMEN ROBERT. See Alemen. ALUMEN RUPECM. See Alemen. ALUMEN RUPECM. See Alemen. ALUMEN RUPECM. See Alamen. ALUMEN CONTROL SEE Alamen. ALUMEN CONTROL SEE Alamen. ALUMEN CONTROL SEE Alamen. ALUMEN CONTROL SEE Alamen. and boil, and it the hear be continued and increased

ALUMINA. Alumine. Terra Alumina. Earth of alum. Pure clay. One of the primitive earths, which, as constituting the plastic principle of all clays, loams, and boles, was called aigil or the argulaceous earth, but now, as being obtained in greatest purpy earth, but now, as being obtained in Pectaest purely from alum, is styled alumina. It was demand debusen tary matter till Sir H. Davy's celebrated debuse permical researches led to the being of its being, use barytes and lime, a metallic oxyde.

The purest native alumina is found in the oriental gems, the sapphire and ruly. They consist of nomical

gems, the sapphire and ruby. They consist of noming but this earth, and a small portion of colouting matter. The native porcelain clays or kaolins, however white and soft, can never be regarded as pure alumina They usually contain fully half their weight of silica, and frequently other earths. To obtain pure attached we dissolve alum in 20 times its weight of water, and add to it a little of the solution of carbona e of soda, to throw down any iron which may be present. We then drop the superpatant liquid into a quantity of the water of ammonia, taking care not to add so much of the aluminous solution as will saturate the ammonia. The volatile alkali unites with the sulphuric acid of the Votatic arkan unites with the supportie and of the alum, and the early basis of the latter is separated in a white spongy precipitate. This must be intown on a filter, washed, or edulcorated, as the old cherousts expressed it, by repeated affusions of water, and been Or if an alum, made with ammonia instead or potassa, as is the case with some French annus, can be got, simple ignition dissipates its acid and alkalme constituents, leaving pure alumina.

Alumina prepared by the first process is white, pulverulent, soft to the touch, adheres to the tongue, toons a smooth paste without grittiness in the mench, rasipad, inodorous, produces no change in vegetable colodes, insoluble in water, but mixes with it readily in every proportion, and retains a small quantity with consideris infusible in the strongest heat of a furnace, experiencing merely a condensation of voltage and consequent fardness, but is in small quantities melted by the oxylphrogen blownipe. Its specific gravity is 2.000 in the state of powder, but by ignition

Every analogy leads to the belief that alumina contains a peculiar metal, which may be called aluminum. The first evidences obtained of this position are presented in Sir H. Davy's researches. Iron negatively electrified by a very ingl. power being fessel in contact with pure alamina, formed a globale whiter than pure iron which effervesced slowly in water, becoming covered with a white powder. The solution of this in vapour through alumina heated to whiteness, the greatest part of the potassium became converted into potassa, which formed a coherent mass with that part muriatic acid, decomposed by an alkali, afforded alumina and oxyde of iron. By passing possission in vapour through alumina heated to winteness, tac greatest part of the potassium became converted into

there were numerous gray particles, having the metadic lastre, and which became white when heated at the air, and which slowly effervesced in water. In a similar experiment made by the same illustrious chea sound experime in made by his salies and to the alu-minal, a frace-way channed, which took fire sponta-neously by exposure to air, and which effervesced vioheously by exposure to air, and which energy an alloy of alternation water. This mass was probably an alloy of alternation into its deutoxyde, dry potassa, by alumina, process the presence of oxygen in the latter. When recarried as an oxyde, Sir R. Davy estimates its oxygen and basis to be to one another as 15 to 33; or as 10 to 22. The prime equivarent of alumina would thus appear to be 1.0+2.2=3.2. But Berzelius's analysis of surphace of alumina seems to indicate 2.136 as the quanty of the earth which coarbines with five of the as id. Heace aluminum will come to be represented by

Alsonian which has lost its plasticity by ignition, recovers it by being discovered in an acid or alkaline measurement, and then precipiented. In this state it is caused a hydrate, for when dried in a steam heat it retains much water; and therefore resembles in composition wavellie, a beautiful mineral, consisting aimost enamely of alumina, with about 28 per cent. of

Alumnia is widely diffused in nature. It is a constituear of every son, and of almost every rock. the basis of porcelain, pottery, pricks, and cruibles. Its affinity for vegetable colouring matter, is made use of in the preparation of lakes, and in the arts of dying and caleo printing. Native combinations of alumina, constitute the fullers' earth, othres, boles, pipeclays, &cc. .The salts of alumina have the following general

1. Most of them are very soluble in water, and their solutions have a sweetish acerb taste

2. Annu ma throws down their earthy base, even though they have been previously acidulated with montaine acid.

3. At a strong red heat they give out a portion of

4. Phosphate of ammonia gives a white precipitate. 5. Hydrodate of potassa produces a floculent pre-cipitate of a white colour, passing into a permanent

6. They are not affected by oxalate of ammonia, tartaric acid, ferroprussiate of potassa, or tincture of galls: by the first two tests they are distinguishable from

yttria; and by thelast two, from that earth and glucina.
7. If bisulphate of potassa be added to a solution of an aluminous sait moderately concentrated, octahedral crystals of alum will form.

ALI MINITE. A mineral of a snow white colour dull, opaque, and having a fine earthy fracture. In consists of sulphuric acid, alumina, water, silica, lime,

and oxyde of iron.

ALUMINOUS. Pertaining to alum.

Sluminous waters. Waters impregnated with par

ALUSIA. (From alvais, a wandering.) Alysis; Illusion; Italiucination. A term used by Good to a species of his geous Empathemata. See Absology.

ALVEAR II M. (From alvaica, a bec-inve.) That pay of the means auditorius externus is so called.

which contains the wax of the ear.

ALVE'OLUS. (A diminutive of alveus, a cavity.) The socket of a tooth.

ALVEUS. (Alveus, i. m., a cavity.) A cavity.
ALVEUS AMPULLESCENS. That part of the duct conveying the chyle to the subclavian vein, which swells

ALVEUS COMMUNIS. The common duct, or communication of the ampulæ of the membranaceous semichardar canals in us internal ear, is so termed by

ALVIDU'CA. (From alvus, the belly, and duco, to draw.) Purging medicines.
ALVIFLUXUS. (From alvus, and fluo, to flow.)

(From alva, to be auxious.) That anxiety which attends low levers.

ALV'PIA, (From α, neg. and λυπη, pain.) With-

out pain; applied to a purgation of the humours, with-

ALY'PIAS. Alypum. A species of turbith, the plobularia alypum; so called because it purges without pain.

ALYSIS. See Alusia.

ALY'SMUS. (From aluw, to be restless.) Rest-

ALY'SSUM. (From a, neg. and hvooa, the bite of a mad dog; so called because it was foolishly thought to be a specific in the cure of the bite of a mad-dog.) Mad-wort. See Marrubium alyssum.

ALYSSUM GALENI. See Marrubium verticillatum. ALYSSUM PLIMI. See Galium album. ALYSSUM VERTICILLATUM. The Marrubium verti-

cillatum.

A'LZUM. Aldum; Aldrum. The name of the tree which produces gum bdellium, according to some ancient authors. A'MA. (Aua, together.) A word used in compo-

AMADINE. A substance, the properties of which are intermediate between those of starch and gum.

AMADOU. A variety of the boletus igniarius, found on old ash and other trees. It is boiled in water to extract its soluble parts, then dried and beat with a mallet to loosen its texture. It has now the appearance of very spongy doe-skin leather. It is lastly impregnated with a solution of nitre, and dried, when it is called spunk, or German tinder; a substance much used on the continent for lighting tires, either from the collision of flint and steel, or from the sudden condensation of air in the atmospheric pyrophorus.

AMA'LGAM. (Amalgama; from apa and yapter, to marry.) A substance produced by mixing mercury with a metal, the two being thereby incorporated.

(From ana, and unlea, an apple.)

The bastard mediar of Hippocrates.

AMANI'TÆ. (From a, priv. and μανια, madness; co called, because they are eatable and not poisonous, like some others.) A tribe of fungous productions, called mushrooms, truffles, and morells, and by the French, champignons.

Amara Duleis. See Solanum dulcamara.

Amaracus. (From a, neg. and paparos, to decay)
because it keeps its virtues a long time.) Marjoram.

Decause it reeps its virtues a long time.) Marjoratus.

Amaranth, esculent. See . Imaranthus oberaccus.

AMARA'NTHUS. (Amaranthus, i. m.; from a, reg, and μαραινω, to decay: because the flower, when cut, does not soon decay.) The name of a genus of plants in the Linnean system. Class, Monæcia; Order, Pentandria.

AMARANTEUS OLERACEUS. Esculent amaranth.
The leaves of this, and several other species, are eaten in India the same as cabbage is here.
AMARUS. Bitter. See Bitter. The principal bitters used medicinally are,

1. The pure bitters; gentiana lutea, humulus lu-pulus, and quassia amara.

Styptic bitters; cinchona officinalis, croton cascarilla, quassia simarouba.

3. Aromatic bitters; artemisia absinthium, anthemis nobilis, hyssopus, &c.

(From amo, to love.) See AMATORIA FEBRIS.

AMATORIA VENEFICIA. (From amo, to love, and veneficium, witchcraft.) Philters. Love powders.

AMATORIUS. A term given to a muscle of the eye, (From amo, to love, and

by which that organ is moved in ogling. See Rectus inferior oculi.

AMATZQUI'TI. An Indian term. See Arbutus unedo AMATZQUI'TI. AMAURO'SIS. (Amauroess, is. f. Amaupous; from anaupous, to darken or obscure.) Gutta serena; Ambiyopia. A disease of the eye attended with a diminution or total loss of sight, without any visible injury to the organ, and arising from a paralytic affection of the retina and optic nerve. A genus of disease in the class locales, and order departments of Chilese. the class locales, and order dysasthesia of Cullen. It arises generally from compression of the optic nerves amaurosis compressionis; from debility, amaurosis atonica; from spasm, amaurosis spasmodica; or from poisons, amaurosis venenatu.

The symptoms of amaurosis are noted for being very irregular. In many cases, the pupil is very much di-lated, immoveable, and of its natural black colour. Sometimes, however, in the most complete and incurabe cases, the pupil is of its natural size, and the Iris capable of free motion. In some cases, the pupil has a dull, glassy, or horny appearance. Sometimes its colour is greenish, occasionally whitish and opaque, so as to be liable to be mistaken for an incipient cataract. Righter mentions a degree of strabismus, as the only symptom, except the loss of sight, as invariably attendan on amaurosis.

attendan on amaurosis.

The bindness produced by amaurosis, is generally preceded by an imaginary appearance of numerous insects, or substances, like colwebs, interposing themselves between objects and the eye. The origin of a cataract on the other hand, is usually attended with a simple cloudiness of vision.

Violent contusions of the head, apoplectic fits, flashes of lightning, frequent exposure to the rays of the sun, severe exercise, strong passions, drunkenness, and other causes of paralytic affections, are enumerated as other causes of paralytic anteriors, are trained as producing this complaint. Sometimes tumours within the cranium, bony projections, &c. have been found compressing the optic nerves: but in many instances no morbid appearance could be traced, to account for

The disorder is generally difficult to be removed: but is sometimes much benefited by general and local stimulants, persevered in for a considerable time, there are marks of congestion in the head, local bleeding, active purging, and other evacuations, would be proper in the first instance. Blisters and issues behind the ear or neck should also be tried. Richter speaks of much success from the use of medicines acting steadily on the bowels, after premising an emetic. Mr. Ware observes, that in some cases the pupil is contracted, indicating probably, internal inflammation; and then the internal use of mercury, especially the exymuriate, will be most beneficial. Electricity has been sometimes serviceable, taking the aura or sparks, or even gentle shocks; but galvanism is certainly pre ferable. Errhines are often useful, as the compound powder of asarabacca; Mr. Ware particularly recom-mends the hydrargyrus vitriolatus of the former Lonments the hydragytts virionates to the voluce to don Plarmacopeaa. Stimulants have been sometimes uscfully applied to the eye itself, as the vapour of oil turpentine, an infusion of capsicum, &c. Where the intention of a blister is to stimulate, it is best applied to the temple on the affected side

pined to the temple on the anected side.

AMBER. Succinum. A beautiful bituminous substance, which takes a good polish, and, after a slight rubbing, becomes so electric, as to attract straws and small bodies; it was called nakerpoor, electrum, by the ancients, and hence the word electricity. "Amber is a hard, brittle, tasteless substance, sometimes perfectly transparent, but mostly semitransparent or opaque, and of a glossy surface: it is found of all colours, but chiefly yellow or orange, and often contains leaves or insects; its specific gravity is from 1.065 to 1.100; its insects; its specific gravity is from 1.005 to 1.100; its fracture is even, smooth, and glossy; it is capable of a fine polish, and hecomes electric by friction; when rubbed or heated, it gives a peculiar agreeable smell, particularly when it melts, that is at 550° of Fahrenheit, but it then loses its transparency; projected on burning coals, it burns with a whitish flame, and a whitish-yellow smoke, but gives very little soot, and leaves brownish ashes; it is insoluble in water and alcohol, though the latter, when highly rectified, extracts a reddish colour from it; but it is soluble in the sulphuric acid, which then acquires a reddish-purple colour, and is precipitable from it by water. No other acid dissolves it, nor is it soluble in essential or expressed oils, without some decomposition and long digestion; but pure alkali dissolves it. By distillation it affords a small quantity of water, with a little acetous acid, an oil, and a peculiar acid. The oil rises at first colon-less: but, as the heat increases, becomes brown, thick, and empyreumatic. The oil may be rectified by successive distillations, or it may be obtained very light and limplied at once, if it be put into a glass abembic with water, as the elder Rouelle directs, and distilled at a heat not greater than 2129 Fahr. It requires to be kept in stone bottles, however, to retain this state; for in glass vessels it becomes brown by the action of light. at first colourless: but, as the heat increases, becomes action of light.

Amber is met with plentifully in regular mines in

some parts of Prussla. The upper surface is composed of sand, under which is a straum of loam, and under this a bed of wood, partly entire, but chiefly mouldered or changed into a bituminous substance. Under the wood is a stratum of subjuurie or rather aluminous mineral, in which the amber is found. Strong sulphureous exhalations are often perceived in the pits.

Detached pieces are also found occasionally on the sanguast in yarious countries. It has been found in

Detaction pieces are also found occasionally on the scarcoast in various countries. It has been found in gravel beds near London. In the Royal Cabinet at Derlin there is a mass of 18ths, weight, supposed to be the largest ever found. Jussien asserts, that the delicate insects in amber, which paye the traquility of its formation, are not European. Hady has pointed out the following distinctions between mellite and coout the following distinctions between mellite and co-pal, the bodies which most closely resemble amber. Mellite is intustible by heat. A bit of copal heated at the end of a knife takes fire, melting into drops, which flatten as they fall; whereas amber burns with spit-ting and frothing; and when its liquefied particles drop, they rebound from the plane which receives them. The origin of amber is at present involved in perfect obscurity, though the rapid progress of vegeta-ble chemistry promises soon to throw light on it. Va-rious frands are practised with this at stance. Neumann states as the common practices of workinen, the two following: The one consists in surrounding the amber with sand in an iron pot, and cementing it with a gradual fire for forty hours, some small pieces placed near the sides of the vessel being occasionally taken out for judging of the effect of the operation: the second method, which he says is that most generally practised, is by digesting and boiling the amber about twenty hours with rapesced oil, by which it is rendered

Werner has divided it into two sub-species, the white and the yellow: but there is little advantage in the distinction. Its ultimate constituents are the same with those of vegetable bodies in general; viz. carbon,

hydrogen, and oxygen.

In the second volume of the Edinburgh Philosophi-In the second votume of the Edinburgh Philosophi-cal Journal, Dr. Brewster has given an account of some optical properties of amber, from which he con-siders it established beyond a doubt that amber is an indurated vegetable juice; and that the traces of a regular structure, indicated by its action upon polarized light, are not the effect of the ordinary laws of crystal-lization by which mellite has been formed, but are pro-duced by the same causes which influence the meeline duced by the same causes which influence the mechaqueed by the same causes which influence the mechanical condition of gum-arabic, and other gums, which are known to be formed by the successive deposition and induration of vegetable fluids.\(^1\)—Ure's Chem. Dict. See Oleum Succini, and Succinic Acid.

[Amber has heretofore been chiefly obtained from the shores of the Baltic in Prussia. It has however

been found in other countries.

been found in other countries.

In the state of New-Jersey, on Crosswick's creek, four miles from Trenton, it occurs in alluvial soil. The amber is both yellow and whitish, and occurs in grains or small masses, seldom exceeding an inch in length. It rests on lignite or carbonated wood, or even penetrates it, and is sometimes connected with pyrites. The stratum of lignite, which contains the amber, rests on a coarse, ferruginous sand, and is covered by a soft on a coarse, ferruginous sand, and is covered by a soft buish clay, embracing masses of pyrites. Above the clay is a bed of sand. Amber exists also near Woodbury, in the same state, in large plates in a bed of mar; also at Camden, opnosite Philadelphia, where a transparent specimen, almost white, and several inches in dimenter has been found in a statem of example. diameter, has been found in a stratum of gravel.

Most naturalists are induced to believe that amber is

a resinous juice, which once proceeded from certain trees, but has since been gradually mineralized in the interior of the earth. It occurs in masses, whose

interior of the earth. It occurs in masses, whose weight usually varies from a fraction of an ounce to a few pounds; and its largest masses, which are extremely rare, do not much exceed 2005.—Cleav. Min. The largest mass perhaps ever seen, was recently found between Meund and Koningsberg, measuring 14 inches in length, by 9 1-4 in breadth, and weighing 210s.—Month. Mag. Oct. 1811. A.?

AMBER SEED. See Hibiscus abelmoschus.

AMBERGRIS. (Ambragrisca, &. f.) A concrete, found in very irregular masses, floating on the sea near the Molucca islands. Madagascar, Sumatra, on the coast of Coromandel, Brazii, America, China, and Japan. It has also been taken out of the intestines of

the Physeter macrocephalus, the spermaceti whale As it has not been found in any whales but such as are dead or sick, its production is generally supposed to be owing to disease, though some have a little too peremptorily affirmed it to be the cause of the morbid peremptorily affirmed it to be the cause of the morbid affection. As no large piece has ever been found without a greater or less quantity of the beaks of the sepia octopodia, the common food of the spermaceti whale, interspersed throughout its substance, there can be little doubt of its originating in the intestines of the whale; for if it were occasionally swallowed by it only, and then caused disease, it would be frequently found without these, when it is met with floating or

thrown upon the shore Ambergris is found of various sizes, generally in Althograms is found of Various sizes, generally is small fragments, but sometimes so large as to weigh near two hundred pounds. When taken from the whale it is not so hard as it becomes afterward on ex-posure to the air. Its specific gravity ranges from 750 to 926. If good, it adheres like wax to the edge of a knile with which it is swaped, retains the impression knife with which it is scaped, retains the impression of the teeth or nails, and entits a fat odoriferous liquid on being penetrated with a hot needle. It is generally brittle; but, on rubbing it with the nail, it becomes smooth like hard soap. Its colour is either white, black, asi-coloured, yellow, or blackish; or it is variegated, namely, gray with black specks, or gray with yellow specks. Its smell is peculiar, and not easy to be counterfeited. At 144° it melts, and at 212° is volatilized in the form of a white vapour. But, on a red-hot coal, it burns, and is entirely dissipated. Water has no action on it; acids, except nitric, act feebly on it; alkalies combine with it, and form a soap; where and the volatile oils dissolve it; so do the fixed oils, and also ammonia, when assisted by heat; alkohol dissolves a portion of it, and is of great use in analyzing it, by separating its constituent parts. According to Boillon ia Grange, who has given the latest analysis of it, 3820 parts of ambegris consists of adipocire 2016 parts, a resinous substance 1167, benzoic acid analysis of 11, 3e20 parts of annorgins emisses of autpor-cire 2016 parts, a resinous substance 1167, benzoic acid 425, and coal 212. But Butcholtz could find no benzoic acid in it. Dr. Ure examined two different specimens with considerable attention. The one yielded benzoic acid, the other, equally genuine to all appearance, afforded none.

An alkoholic solution of ambergris, added in minute quantity to lavender water, tooth powder, hair powder, wash balls, &c. communicates its peculiar frader, wash balls, &c. communicates its peculiar fra-grance. Its retail price being in London so high as a guinea per oz. leads to many adulterations. These consist of various mixtures of benzoin, labdanum, menl, &c. scented with musk. The greasy appear-ance and smell which heated ambergis exhibits, afford good criteria, joined to its solubility in hot æther and

alkohol.

It has occasionally been employed in medicine, but

It has occasionally been employed in medicine, but its use is mostly contined to the perfumer. Dr. Swediaur took thirty grains of it without perceiving any sensible effect. A sailor, who took half an ounce of it, found it a good purgative.—Ure's Chem. Dict.

[Ambergris, which is a concretion from the intestines of the spermaceti whale, also contains a considerable portion of fatty matter, amounting in some specimens to 60 per cent. It is only found in the unhealthy animal. Its chief constituent is a substance very analogue to elegatorine and to which Pellier and Cavente. gous to cholesterine, and to which Peliter and Caventon have given the name of ambreine. By digestion in nitrie acid, ambreine is converted into a peculiar acid called the ambreic acid. Webster's Manual of Chem.

Boston, 1828. A.]

The medical qualities of ambergris are stomachic, cordial, and antispasmodic. It is very seldom used in

cordiai, and antispasmodic. It is very seldom used in this country.

AMBLO SIS. (Αμβλωσις; from αμβλοω, to cause abortion.) A miscarriage.

ΑΜΒLΟ ΤΙCA. (Αμβλωσικα; from αμβλοω to cause abortion.) Medicines which were supposed to occasion abortion.

AMBLYGONITE. A greenish-coloured mineral that occurs in granite, along with green topaz and tourmaline, near Pinig, in Saxony. It seems to be a species of spodumine.

species of spodumme. Amblyopia,  $\alpha$ . f.; from  $\alpha\mu\delta\lambda_0$ s,  $\Delta$ MBLYOPIA. (Amblyopia,  $\alpha$ . f.; from  $\alpha\mu\delta\lambda_0$ s, dual, and  $\omega\psi$ , the eye.) Amblyosamus; Amblytes. Hippocrates means by this word, dimness of sight to which old people are subject. Paulus Actuarius, and the best modern writers, seem to think that amblyopia 55

means the same thing as the incomplete amaurosis. I See Amaurosis

AMBLYO'SMUS. See . 9mblyopia. AMBLYTES.

A'mbo. An Indian name of the mango.

A MBON. (Prom appeared to ascend.) Celsus uses this term to signify the margin or tip of the sockets in which the heads of the large bones are lodged.

A'mbone. The same as ambe.
A'mbone. Also an aromatic gum.
Ambra cineracea. Ambaggis and gray amber. AMBRA GRISEA. Ambergris. A'MBRAM. Amber.

AMBREINE. See Ambergris.

AMBREINE. See Ambergris. A.]

AMBRE'TTE. See Hibiscus abelmoschus.

AMBULATI'VA. (From ambulo, to walk.) of herpes; so called because it walks or creeps, as it about the body

AMBU STIO. (Ambustio, onis. f.; from amburo,

AMBU S110. (Ambustic, onts. 1.; from amburo, to burn.) See Burn.

AMBUSTUM. A burn or scald.

AME'LLA. The same as achmella.

AMENORRHCEA. (Ameuorrhwa, w. f.; from a, priv. µpv, a month, and pro, to flow.) A partial or total obstruction of the meuses in women from other causes than pregnancy and old age. The menses should be regular as to quantity and quality; and that should be regular as to quantity and quality; and that this discharge should observe the monthly period, is essential to health. When it is obstructed, nature makes her efforts to obtain for it some other outlet. When these efforts of nature fail, the consequence may be, pyrexia, pulmonic diseases, spasinodic affections, hysteria, epilepsia, mania, apoplexia, chlorosis, according to the general habit and disposition of the patient. Dr. Cullen places this genus in the class locates, and order epischeses. His species are, I. Emansio mensium; that is, when the menses do not appear so early as is usually expected. See Chlorosis. 2. Suppressio mensium, when, after the menses ap-2. Suppressio mensium, when, after the menses appearing and continuing as usual for some time, they cease without pregnancy occurring. 3. Amenorrhae difficilis, vel Menorrhagia difficilis, when this flux is too small in quantity, and attended with great

he causes of a suppression of the menses appear mostly to operate by inducing a constriction of the ex-treme vessels; such as cold, fear, and other depressing passions, an indolent life, the abuse of acids, &c is sometimes symptomatic of other diseases, in which considerable debility occurs, as phthisis pulmonalis. When the discharge has been some time interrupted, particularly in persons previously healthy, hemor-rhages will often happen from other outlets, the nose, stomach, lungs, &c. even in some instances a periodi-cal discharge of blood from an ulcer has occurred. The patient generally becomes obstinately costive, often dyspeptic; colicky pains, and various hysterical symptoms likewise are apt to attend. The means of chief efficacy in restoring the uterine function are those calculated to relax spasm, assisted sometimes by such as increase arterial action, particularly in protracted cases. The former will be employed with most probability of success, when symptoms of a mensional effort appear. They are, especially the hip-bath, foeffort appear. effort appear. They are, especially the hip-bath, for-mentations to the-shyogastrium, sitting over a vessel of hot water, so that the vapour may be applied to the pudenda; with antispastnodic medicines, as the com-pound galbanum pill, castor, &c. but especially opium. If the patient be piclhoric, venesection should be pre-mised. In cases of long standing, the object will be to bring about a determination of blood to the uterus. This may be accomplished by emmenagogues, of which savine and cantharis are most to be relied upon; though the latter would be improper, if hæmaturia had occurred. Certain cathartics are also very useful, particularly aloes, which appear to operate especially on the rectum, and thus sympathetically influence the uterus. Electric shocks passed through the hypogastric region, may likewise contribute to the cure

In cases of scanty and painful menstruation, the means pointed out above as calculated to take off constriction of the uterine vessels, should be resorted to especially the hip-bath, and the free use of opium.

AMENTACE & PLANTE. Amentaceous plants. vision of plants in natural arrangements of bota-

AMENTA'CEUS. Having an amentum or catkin,

AMENIA CRES. Having an amentum or catkin, as the willow, birch, beach, poplar, &c.
AME NIIA. (Amenta, e. f.; from a, priv. and mens, the mind.) Imbedility of intellect, by which the relations of things are either not perceived, or not recollected. A disease in the class neuroses, and order vesania of Cullen. When it originates at birth, it is called amentia congenita, natural stupidity; when from the infirmities of age, amentia senilis, dotage or childishness; and when from some accidental cause, amentia

AMENTUM. (Derived from its fancied resemblance to a cat's-tail, and by Festus, from the Greek appa, a bond or thong.) Indus: Novementum; Catuss. Carkin. A species of inflorescence, considered by some as a species of enlyx. It is a simple peducide covered with numerous chaffy scales, under which are the flowers or parts of fructification. The distinctions of catking are into.

1. Cylindrical: as in Corylus avellana; Beta alba;

2. Globose as in Fagus sylvatica; Plutanus orien-

talis; Urtica pilulifera.
3. Ovate: as in the Female Pinus sylvestris.
4. Filiform: Seen in Fagus pumila and Castanea

5. Attenuate, slender towards the end: as in Fagus

6. Thick: in Juglans regia.
7. Imbrecate, scaly: as in Juniperus communis, and Salix alix fusca. 8. Palcaceous, chaffy: as in Pinus sylvestris.

9. Naked: the scales being so small or wanting, that the parts of fructification appear naked, as in Excoc-

American balsam. See Myroxylum Peruiferum.
[American Centaury. This is the Chironia angularis of Linucus. It is a native of damp, rich soils, in the middle and southern parts of the United States, where it is commonly known by the name of centaury. Every part of the plant is a pure, strong bitter, and communicates its qualities to both water and alkohol. It appears to be a remedy in considerable use at the south for intermittent fever. On the stomach it exerts south for intermittent lever. On the stomach it exerts an invigorating influence, and promotes appetite and digestion. It may be given in powder, in doses of ten or twenty grains, or in infusion, which is the more common mode.—Bigelow's Sequel, &cc. A.]

[AMERICAN COLUMBO. This is the Frasera Walteri

Michaux. It is a tall, rank, perennial plant, growing spontaneously in the southern and western parts of the United States. It is the Swertin frazera of Smith, in Rees's Cyclopedia. The root, which is large and tleshy, has a considerable degree of bitterness, and and fleshy, has a considerance agree or interness, on when cut in slices and dried, has some resemblance to the imported columbo. Owing to its comparative cheapness, it has been substituted in druggists' shops for columbo, to which it is incomparably inferior in bitterness. It is however an article of considerable tonic powers, and, when fresh, is said to be emetic and cathanic .- Big. Seq.

uthartic.—Big. Seq. A.]
[AMERICAN HELLEBORE. Veratrum viride. plant bearing this name grows on wet meadows, and on the banks of brooks throughout the United States. It sends up a tuft of large plaited leaves early in the spring and in June produces a panicle of green flowers. It is often designated by the name of poke-root, though a very different plant from the Phytolacca.

Its properties resemble those of the Veratrum Album

of Europe, to which plant it is so closely allied in appearance, that many botanists have considered them the same species. The root has a bitter taste, accompanied with acrimony, and leaves a permanent impression on the mouth and fauces. It abounds with a pression on the mount due to the resinous juice, which adheres closely to a knife with which it has been cut. This is taken up by alkohol, and precipitated by water. The decoction has an inwhich it has been cat. This is beach up by through, and precipitated by water. The decection has an intensely bitter taste, probably owing to an extractive principle. The distilled water has a slightly unpleasant taste, without bitterness or pungency. Veratrine probably exists in this root.

Tatrime probably exists in this root.

Like the white Hellebore, it is an acrid emetic, and a powerful stimulant, followed by sedative effects. From the sum of my observations respecting it, I am satisfied that the root, when not impaired by long keeping or exposure, is, in sufficient doses, a strong emetic, commencing its operation tardily, but conti-

nuing it in many instances for a long time; in large doses affecting the functions of the brain and nervous chouc, (a neck of an Indian rubber bottle answers system, in a powerful manner, producing giddiness. impaired vision, prostration of strength, and diminu-

tion of the vital powers.

From three to six grains in powder will commonly occasion vomiting, the activity being in some degree proportionate to the freshness of the article. Dr. Ware found, that doses somewhat larger did not act with undue violence, in the case of some alms-house patients. A wine, prepared like that of white helichore, has produced relief in gout and rhermatism, in doses

of less than a fluid drachm.—Big. Mat. Med. A.]
[AMERICAN SENNA. Cassia Marilandica. This is a [AMERICAN SENNA. Cassia Marilandica. This is a stall plant, with yellow flowers, growing in most parts of the United States. Its botanical affinity to the Cassia Senna, probably first led to a suspicion of its cathartic powers. Its leaves abound with resin, and have also some extractive and volatile matter. An ounce of the dried leaves, infused in water, proves cathartic, and the plant being easy of acquisition, is not unfrequently used for this purpose by country prestitioners. Bits. Sea. A. 1 practitioners.—Big. Seq. A.]
AMERICA'NUM TUBEROSUM.

The potatoe. See

Solanum toberosum.

AMETHY'STA PHARMACA. (From a, neg. and μεθυ, wine.) Medicines which were said either to prevent

AMETHY'STUS. (From a, neg. and μεθυσκω, to be inebriated: so called, because in former times, accordinebriated: so called, because in former times, according to Plutarch, it was thought to prevent drunkenness.

—Rudand. in I.ex. Chem.) The amethyst. "A gem of a violet colour, and great brilliancy, said to be as hard as the ruby or sapphire, from which it only differs in colour. This is called the oriental amethyst, and is very rare. When it inclines to the purple or rosy colour, it is more esteemed than when it is rearer to the blue. These amethysts have the same figure, hardness, specific gravity, and other qualities, as the best samplines or rubies, and come from the same best sapphires or rubles, and come from the same places, particularly from Persia, Arabia, Armenia, and the West Indies. The occidental amethysts are merely

une West Indies. The occidental amethysis are merely coloured crystals or quartz."

AMIANTHUS. See Asbestos.

AMI CULUM. A little short cloak. It is the same as the amnios, but anciently meant a covering for the pubes of boys, when they exercised in the gymnasium:

AMIDINE. A substance produced, according to Saussure, when we abandon the paste of starch to itself, at the ordinary temperature, with or without the contact of air.

A'MIDUM. See Amylum.

AMINÆ'UM. A wine produced in Aminæa, formerly a province of Italy; called also Salernum. Also a strong wine vinegar. Galen mentions Aminæum Nea-

strong wine vinegar. Gaien menions Aminæum Neapolitamun, and Aminæum Siculum.

A'MMI. (Ammium, i. n. Aµµ; from aµµo5, sand,
from its likeness to little gravel-stones.) I. The name
of a genus of plants in the Linnean system.

2. The pharmacopæial name of the herb bishop's
weed, of which there are two sorts. See Sison ammi

and ammi majus.

Ammi majus. The systematic name for the ammi vulgare of the shops. The seeds of this plant, Ammi foliis inferioribus pinnatis, lanceolatis serratis; superioribus, multifidis, linearibus, of Linnaus; are less powerful than those of the Sison ammi, but were exhibited with the same views.

Ammi ve Rum. See Sison Ammi.

Ammi veloare. See Amai majus.

Ammion. Ammiom. Cinnabar.

Ammoon Sta. (From appeas, sand, and χεω, to pour.) A remedy for drying the body by sprinkling it with hot sand. (Profession.)

pour.) A remedy for drying the body by sprinking it with hot sand.— Orthosias.

AMMO/N1A. (Ammonia, a. f; so called because it is obtained from sal ammoniae, which received its name from being dug out of the earth near the temple of Jupiter Ammon.) Ammonia gas. The substance so called is an aériform or alkaline air. "There is a saline body, formerly brought from Egypt, where it was separated from soot by subimation, but which is now made abundantly in Europe, called sal ammoniae. From this sait pure ammonia can be readily obtained by the following process: Mix unstacked quicklime with its own weglit of sal ammoniae, each in fine powder, and introduce them into a glass retort. in fine powder, and introduce them into a glass retort.

Join to the beak of the retort, by a collar of caoutchour, (a neck of as Indian rubber bottle answers well,) a glass tube about 18 inches long, contaming pieces of ignited muriate of lime. This tube should lie in a horizontal position, and its free end, previously bent obliquely by the blowpipe, should dip into dry mercury in a pneumatic irongh. A slip of porous paper, as an additional precaution, may be tied round the tube, and kept mois withesther. If a gentle heat from a charcoal chaffer or lamp be now applied to the bottom of the retort, a gascous body will hubble up through the mercury. Fill a little glass tube, sealed at one end, with the gas, and massier it, closely stopped at the other end, into a basin containing water. If the water rise instantly and fill the whole tube, the gas is puse, and may be received for examination.

Animonia is a transparent, colourless, and consequently invisible gas, possessed of elasticity, and the other mechanical properties of the atmospherical air. Its specific gravity is an important datum in chemical researches, and has been rather differently stated. Now as no actiform body is more easily obtained in a Now as no de-norm body is more easily obtained in a pure state than animonia, this diversity, among accurate experimentalists, shows the nicety of this statical operation. Biot and Arago make it = 0.50699 by experiment, and by calculation from its elementary gases, they make it = 0.50438. Kirwan says that 100 cubic inches weigh 18.16 gr. at 30 inches of bar, and 61° F., which compared to air reckoned 30.519, gives 0.59540. Sir H. Davy determines its density to be = 0.590, with which estimate the theoretic calculations of Br. Prout, in the sixth volume of the Annais of Philosophy, agree.

This gas has an exceedingly pungent smell, well known by the old name of spirits of hartshorn. An animal plunged into it speedily dies. It extinguishes combustion, but being itself to a certain degree com-bustible, the flame of a taper immersed in it is enlarged before going out. It has a very acrid taste. condenses it very rapidly.

Water is capable of dissolving easily about one-third of its weight of ammoniacal gas, or 460 times its bulk. Hence, when placed in contact with a tube filled with

Hence, when placed in contact whith a time lines with this gas, water rushes into it with explosive velocity. Amnonine al gas, perfectly dry, when mixed with oxygen, expludes with the electric spark, and is con-verted into water and nitrogen, as has been shows in verten into variet and introgen, as has occas snowers an ingenious paper by Dr. Henry. But the simplest, and perhaps most accurate mode of resorving ammonia into its elementary constituents, is that first practised by Berthollet, the celebrated discoverer of its composition. This consists in making the pure gas traverse very slowly an ignited porcelain tube of a

The alkaline nature of anynonia is demonstrated. not only by its neutralizing acidity, and changing the vegetable reds to purple or green, but also by its being attracted to the negative pole of a voltaic arrangement. When a pretty strong electric power is applied to ammonia in its liquid or solid combinations, simple decomposition is effected; but in contact with mercury, very mysterious phenomena occur. If a globule of mercury be surrounded with a little water of ammomercury be surrounded with a fixed water of animonia, or placed in a little cavity in a piece of sal animoniac, and then subjected to the voltaic power by two wires, the negative touching the mercury, and the positive the animoniacal compound, the globule is instantly covered with a circulating film, a white smoke rises from it, and its volume enlarges, while it shoots out ramifications of a semi-solid consistence shoots out ramifications of a semi-soil consistence over the self. The analgam has the consistence of soft butter, and may be cut with a knife. Whenever the electrization is suspended, the crab-like fibres retract towards the central mass, which soon, by the constant formation of white saline films, resumes its pristing globular shape and size. The enlargement of volume seems to amount occasionally to ten times that voudne seems to amount occasionally to ten times that of the mercury, when a small globule is employed. Sir II. Davy, Berze'ns, and Gay Lussac and Thenard, have studied this singular phenomenon with great care. They produced the very same substance by putting an amalgan of mercury and potassium into the moistened cupel of sal ammoniae. It becomes five our times larger resumes the consistence of burning the consistence of the constant of the c noise the cupie of sal amounts to consistence of butter, while it retains its metallic lustre.

What takes place in these experiments? In the second case, the substance of metallic aspect which we

obtain is an ammoniacal hydruret of mercury and potassium. There is formed, besides, muriate of potassa.
Consequently a portion of the potassium of the amalgam decomposes the water, becomes potassa, which itself decomposes the muriate of ammonia. Thence result hydrogen and ammonia, which, in the nascent state, unite to the undecomposed amatgam. In the first experiment, the substance which, as in the second, presents the metallic aspect, is only an ammoniacal hydruret of mercury; its formation is accompanied by the perceptible evolution of a certain quantity of chlorine at the positive pole. It is obvious, therefore, that the saft is decomposed by the electricity. The hydrogen of the muriatic acid, and the ammonia, both condition with the mercure. state, unite to the undecomposed amalgam. both combine with the mercury.

Ammonia is not affected by a cherry-red heat.

According to Guyton de Morveau, it becomes a liquid at about 40°-0°, or at 0° the treezing point of mercury; but it is uncertain whether the appearances he observed may not have been owing to hygrometric water, as happens with chlorine gas. The ammoniacal liquid loses its pungent smell as its temperature sinks, till at -50° it gelatinizes, if suddenly cooled; but

if slowly cooled it crystallizes.

Oxygen, by means of electricity, or a mere red heat, resolves animonia into water and nitrogen. When there is a considerable excess of oxygen, it acidines a portion of the nitrogen into nitrous acid, whence many fallacies in analysis have arisen. Chlorine and ammonia exercise so powerful an action on each other, that when mixed suddenly, a sheet of white flame per-vades them. The simplest way of making this fine experiment, is to invert a matress, with a wide mouth and conical neck, over another with a taper neck, containing a mixture of sal ammoniac and lime, heated by a lamp. As soon as the upper vessel seems to be full of ammonia, by the overflow of the pungent gas, it is to be cautiously lifted up, and inserted, in a perpendicular direction, into a wide-mouthed glass-decanter or flask, filled with chlorine. On seizing the two vesor flask, filled with chlorine. On seizing the two vessels thus joined with the two hands covered with gloves, and suddenly inverting them, like a sand-glass, the heavy chlorine and light ammonia, rushing in opposite directions, unite, with the evolution of flame. As one volume of ammonia contains, in a condensed state, one and a half of hydrogen, which requires for its saturation just one and a half of chlorine, this quantity should resolve the mixture into muriatic acid and its reson and thereby given read to make the allowed the allowed. nitrogen, and thereby give a ready analysis of the alka-line gas. If the proportion of chlorine be less, sal ammoniac and nitrogen are the results. The same thing happens on mixing the aqueous solutions of ammonia and chlorine. But if large bubbles of chlorine be let up in ammoniacal water of moderate strength, luminous streaks are seen in the dark to pervade the liquid, and the same reciprocal change of the ingredients is effected.

Gay Lussac and Thenard state, that when 3 parts of ammoniacal gas and 1 of chlorine are mixed together, they condense into sal ammoniac, and azote, equal to

1-10 the whole volume, is given out.

Iodine has an analogous action on ammonia; scizing a portion of its hydrogen to form hydriodic acid, whence hydriodate of ammonia results; while another portion of iodine unites with the liberated nitrogen to

form the explosive pulverulent iodine.

Cyanogen and ammoniacal gas begin to act upon each other whenever they come into contact, but some hours are requisite to render the effect complete. They unite in the proportion nearly of 1 to 1 1-2, forming a compound which gives a dark orange-brown colour to water, but dissolves in only a very small quantity of water. The solution does not produce prussian blue with the salts of iron.

By transmitting ammoniacal gas through charcoal ignited in a tube, prussic or hydrocyanic acid is formed. The action of the alkaline metals on gaseous ammo-The action of the attainer impeas on gaseous amino-nia, is very curious. When potsesium is fused in that gas, a very fusible olive-green s stance, consisting of potsesium, nitrogen, and ammonia is formed; and a volume of bydrogen remains exactly equal to what would result from the action on water of the quantity would result from the action on water of the quantity of potassium employed. Hence, according to Thenard, the ammonia is divided into two portions. One is decomposed, so that its nitrogen combines with the potassium, and its hydrogen remains free, while the other is absorbed in whole or in part by the nitroguret.

of potassium. Sodium acts in the same manner. olive substance is opaque, and it is only when in plates of extreme thinness that it appears semitransparent, it has nothing of the metallic appearance; it is heavier than water; and, on minute inspection, seems impefectly crystallized. When it is exposed to a heat progressively increased, it melts, disengages ammonia, and hydrogen, and nitrogen, in the proportions constituting ammonia; then it becomes solid, still preserving its green colour, and is converted into a nitroguret of potassium or sodium. Exposed to the air at the ordi nary temperature, it attracts only its humidity, but not its oxygen, and is slowly transformed into ammoniacal gas, and potassa or soda. It burns vividly when pro-jected into a hot crucible, or when heated in a vessel containing oxygen. Water and acids produce also sudden decomposition, with the extrication of heat. Alkalies or arkaime salts are produced. Alkohol like wise decomposes it with similar results. The preceding description of the compound of ammonia with potassium, as prepared by Gay Lussac and Thenard, was controverted by Sir H. Dayy.

The experiments of this accurate chemist led to the conclusion, that the presence of moisture had modified their results. In proportion as more precautions are taken to keep every thing absolutely dry, so in propor-tion is less aumonia regenerated. He seldom obtained as much as 1-10 of the quantity absorbed; and he never could procure hydrogen and nitrogen-in the proportions constituting ammonia; there was always an excess of nitrogen. The following experiment was conducted with the utmost nicety. 31-2 gr. of potassium were heated in 12 cubic inches of ammoniacal gas; 7.5 were absorbed, and 3.2 of hydrogen evolved. On distilling the olive-coloured solid in a tube of plati-na, 9 cubical inches of gas were given off, and half a cubical inch remained in the tube and adapters. Of the nine cubical inches, one-fifth of a cubical inch only was ammonia; 10 measures of the permanent gas mixed with 7.5 of oxygen, and acted upon by the electrical spark, left a residuum of 7.5. He infers that the results of the analysis of ammonia, by electricity and potassium, are the same.

On the whole we may legitimately infer, that there is something yet unexplained in these phenomena. The potassium separates from ammonia as much hydrogen, as an equal weight of it would from water. If two volumes of hydrogen be thus detached from the alkaline gas, the remaining volume, with the volume of nitrogen, will be left to combine with the potassium, forming a triple compound, somewhat analogous to the cyanides, a compound capable of condensing am-

When ammoniacal gas is transmitted over ignited wires of iron, copper, platina, &c. it is decomposed completely, and though the metals are not increased in weight, they have become extremely brittle. Iron, at the same temperature, decomposes the ammonia, with double the rapidity that platinum does. At a high temperature, the protoxyde of nitrogen decomposes ammonia.

Of the ordinary metals, zinc is the only one which liquid ammonia oxydizes and then dissolves. acts on many of the metallic oxydes. At a high temacts on many of the includic oxydecs. At a mgn temperature the gas deoxydizes all those which are reducible by hydrogen. The oxydes soluble in liquid ammonia, are the oxyde of zinc; the protoxyde and peroxyde of copper; the oxyde of silver; the third and fourth oxydes of antimony; the oxyde of tellurium; fourth oxydes of antimony; the oxyde of the peroxyde of fin mercury, gold, and platinum. The first live the protoxides of incidence and platinum. The first five of tin, mercury, gold, and platinum. The first five are very soluble, the rest less so. These combinations can be obtained by evaporation, in the dry state, only These combinations with copper, antimony, mercury, gold, platinum, and silver; the four last of which are very remarkable for their detonating property. See the particular metals,

All the acids are susceptible of combining with ammonia, and they almost all form with it neutral com-Gay Lussac made the important discovery, that whenever the acid is gaseous, its combination with ammoniacal gas takes place in a simple ratio of determinate volumes, whether a neutral or a subsalt

Ammoniacal salts have the following general cha-

When treated with a caustic fixed alkali or earth, they exhale the peculiar smell of ammonia.

2d, They are generally soluble in water, and crystallizable

3d, They are all decomposed at a moderate red neat; and if the acid be fixed, as the phosphoric or

boracic, the ammonia comes away pure.

4th, When they are dropped into a solution of muriate of platina, a yellow precipitate falls."- Ure's

The preparations of ammonia in use are,

1. Liquor ammoniæ. Liquor ammoniæ. See Ammoniæ tiquor.
 The sub-carbonate of ammonia. See Ammoniæ subcarbonas, and ammoniæ subcarbonatis liquor.

3. The acetate of ammonia. See Ammonia acctatis

The muriate of ammonia. See Sal ammoniac.

5. Ferrum ammoniatum.

6. Several tinctures and spirits, holding ammonia in solution. Ammonia, argentate of. Fulminating silver.

Ammonia, argentate of. Fulminating silver.

Ammonia acetata. See Liquor ammonia acetatis.

Ammonia muriata. See Sal ammoniac.

Ammonia praparata. See Sal ammoniac.

Ammoniac, all. See Sal ammoniac.

Ammoniac, all. See Sal ammoniac.

Ammoniac, Mence it was brought.) Gum-ammoniac.

A concrete gummy resinous juice, composed of little lumps, or tears, of a strong and somewhat ungrateful smell, and nauseous taste, followed by a bitterness. There has, hitherto, been no information had concerning the plant which affords this drug; but Wildenow considers it to be the Heracleum gummiferum, having Ing the plant which affords this drug; but Wildenow considers it to be the Heracleum gummiferum, having raised that plant from the seeds, which are sometimes found in the drug. It is imported here from Turkey, and from the East Indies. It consists, according to Braconnot, of 70 resin, 18.4 gum. 4.4 glutinous matter, 6 water, and 1.2 loss in 100 parts. Gum ammoniacum is principally employed as an expectorant, and is frequently prescribed in asthma and chronic catarrh. Its dose is from 10 to 30 grains. It is given in the form of pill or diffused in water, and is frequently combined with equill, or tartarized antimony. In large doses it proves ourgative. Externally, it is applied as a discurrence water. proves purgative. Externally, it is applied as a discutient, under the form of plaster, to white swellings of the knee, and to indolent tumours. The officinal preparations are ammoniacum purificatum. Emplastrum parations are ammoniacum purificatum. ammoniaci; Empl. animoniaci cum hydrargyro; Mistura ammoniaci.

Ammoniaci.

Ammonia acertate of ammonia; formerly called Aqua ammonia acertate. Take of sub-carbonate of ammonia, two ounces; dilute acetic acid, four pints. Add the acid to the salt, until bubbles of gas shall no longer arise, and mix. The effervescence is occasioned by the escape of carbonate of ammonia acid acade and now. bonic acid gas, which the acetic acid expels, and neu-

bonic acid gas, which the actit acid capets, the neutralizes the ammonia.

If the acid rather predominate, the solution is more grateful to the taste; and provided that, acid be correctly prepared, the proportions here given will be found sufficient; where the acid cannot be depended on, it will be right to be regulated rather by the cessa-

tion of effervescence than by quantity.

This preparation was formerly known in the shops under the name of spirit of Mindererus. When assisted by a warm regimen, it proves an excellent and powed by a warm regimen, it proves an excellent and pow-erful sudorific; and, as it operates without quickening the circulation, or increasing the heat of the body, it is admissible in febrile and inflammatory diseases, in which the use of stimulating sudorifics are attended with danger. Its action may likewise be determined to the kidneys, by walking about in the cool air. The common dose is half an ounce, either by itself, or slong with other medicines, adapted to the same inalong with other medicines, adapted to the same in-

tention.

Ammoniæ carbonas. See Ammonia subcarbonas.

Ammoniæ liquor. Liquor of Ammonia. Take of
muriate of ammonia eight ounces; lime newly prepared, six ounces; water, four pints. Pour on the lime
a pint of the water, then cover the vessel, and set them
by for an hour; then add the muriate of ammonia,
and the remaining water previously made bolling hot,
and cover the vessel again; strain the liquor when it
has cooled; then distil from it twelve fluid ounces of
the solution of ammonia into a receiver cooled to the
comperature of 50°. The specific gravity of this solution should be to that of distilled water, as 4.960 to
5000. anection.

annotation of ammonia into a receiver cooled to the imperature of 50°. The specific gravity of this solution abould be to that of distilled water, as 4.980 to 100.

Lime is capable of decomposing muriate of ammoniate fectus. It is very thin and pellucid in the carly stage of pregnancy, but acquires considerable.

nia at a temperature much below that of boiling water; so that when the materials are mixed, a solution of ammonia and of muriate of lime is obtained. This being submitted to distillation, the ammonia passes over with a certain portion of the water, leaving behind the muriate of lime dissolved in the rest. The proportion of water directed seems, however, unhecesprobotton of water difference seeins, nowes et, under sarily great, which obliges the operator to employ larger vessels than would otherwise suffice. But the process now directed is certainly much easier, more economical, and more uniform in its results, than that of former pharmacopæias.

This preparation is colourless and transparent with This preparation is colouriess and transparent with a strong peculiar smell; it parts with the ammonia in the form of gas, if heated to 430 degrees, and requires to be kept, with a cautious exclusion of atmespherical air, with the carbonic acid of which it readily unites: on this latter account, the propriety of keeping it in small bottles instead of a large one, has been sug-

This is the aqua ammonia pura of the shops, and the alcali volatile causticum.

the atcali volatile causticum. Water of ammonia is very rarely given internally, although it may be used in doses of ten or twenty drops, largely diluted, as a powerful stimulant in asphyxia and similar diseases. Externally it is applied to the skin as a rubetacient, and in the form of gas to the nostrils, and to the eyes as a stimulant; in cases of torpor, paralysis, rheumatism, syncope, hysteria, and ethonic onthiabinia. chronic ophthalmia.

AMMONIE MURIAS. See Sal ammoniaca. Ammonie nitras. Alcali volatile nitratum; Sal ammoniacus nitrosus; Ammonia nitrata. A salt composed of the nitric acid and ammonia, the virtues which are internally diuretic and deobstruent, and

of which are internally diuretic and deobstruent, and externally resolvent and sialogogue.

Ammonia. Subcarbonas. Subcarbonate of ammonia. This preparation was formerly called ammonia preparata, and sal volatilis salis ammoniaci, and sal volatilis. It is made thus:—Take of muriate of ammonia, a pound: of prepared chalk, dried, a pound and a half. Reduce them separately to powder; then mix them together, and sublime in a heat gradually reject till the retort becomes red. In this ore dually raised, till the retort becomes red. In this pre-paration a double decomposition takes place, the carbonic acid of the chalk uniting with the ammonia, and forming subcarbonate of ammonia, which is volatilized while muriate of lime remains in the vessel.

This salt possesses nervine and stimulating powers, and is highly beneficial in the dose of from two to eight grains, in nervous affections, debilities, flatulency,

and acidity from dyspepsia.

Ammoniæ subcarbonatis Liquor. AMMONIE EVICARIONATIS LIQUOR. Liquor ammonia. Take of subcarbonate of ammonia, four ounces; distilled water a pint. Dissolve the subcarbonate of ammonia in the water, and filter the solution through paper. This preparation possesses the properties of ammonia in its action on the human body. See Ammonicated copper, liquor of. See Cupri ammoniati liquor.

niati liquor.

AMMO NION. (From  $a\mu\mu\rho\sigma_s$ , sand.) Actius uses this term to denote a collyrium of great virtue in many diseases of the eye, which was said to remove sand or

gravel from the eyes.

gravel from the eyes.

AMMONITES. Petrifactions, which have likewise been distinguished by the name of cornua ammonis, and are called snake-stones by the vulgar, consist chiefly of lime-stone. They are found of all sizes, from the breadth of half an inch to more than two feet in diameter; some of them rounded, others greatly compressed, and lodged in different strata of stones and clays. They appear to owe their origin to shells of the nautitus kind.

AMMO'NIUM. Berzelius first gave this name to a supposed metal which with oxygen he conceives to form the alkali called ammonia. It is now generally form the alkali called ammonia.

supposed niead alled ammonia. It is now generally form the alkali called ammonia. It is now generally used by all chemists. See Ammonia.

AMNE'SLA. (From a, priv. and μυγισις, memory.)

Amnestia. Forgetfulness; mostly a symptomatic affection.

thickness and strength in the latter months. The amnios contains a thin watery fluid, in which the focus vate

nios contains a thin watery fluid, in which the featus is suspended. See Liquor annit.

AMNIOPIC. (Amnaticus; from amnios: so called because it is obtained from the meabrane of that name.) Of or belonging to the amnios.

AMNIOPIC ACID. Acidum amnaticusm. A peculiar acid found in the liquor of the annios of the cow. It exists in the form of a white pulverulent powder. It is slightly acid to the taste, but sensibly reddens vegetable blues. It is with difficulty soluble in cold, but readily soluble in beiling water; and in advoiced. When exposed to a strong heat, it exhales an odoru of annionia and of prussic acid. Assisted by heat, it decomposus carbonate of potassa, soda, and annionia. It produces no change in the solutions of silver, lead, or mercury, in nitric acid. or mercury, in nitric acid. Amonic acid may be ob-tained by evaporating the liquer of the amons of the cow to a fourth part, and suffering it to coel; crystals of aumiotic acid will be obtained in considerable quantity. Whether this acid exists in the liquor of the am-

nios of other animals, is not yet known.

AMO MUM. (Amomum, i. n.; trom an Arabian word, signifying a pigeon, the foot of which it was thought to resemble.) The name of a genus of plants in the Linnman system. Class Monanaria; Order,

Monogynia.

AMONUM CARDAMOMUM. The former systematic name for the cardamomum minus. See Elettaria

cardamomum.

AMOMUM GRANUM PARADISI. The systematic name Anomum granum paradisi. The systematic name of the plant which affords the grains of paradise. Cardamomum majus; Meleguetra; Maniguetra; Cardamomum piperatium. Grains of paradise, or the greater cardamom seeds, are contained in a large brown, somewhat triangular flask, the thickness of one's thumb, and pyramidal. The seeds are augular, and of a reddish brown colour, smaller than pepper, and resemble very much the seeds of the cardamomum They are extremely hot, and similar in virtue

AMOMUM VERUM. True stone parsley. 'The fruit is Anoman venum: Truestone parsity. The trans about the size of a grape, of a strong and grateful aromadic taste, and penetrating smell. The seeds have been given as a carminative.

Anoman zixelber. The former systematic name

of the plant which affords ginger. See Zingiber office

AMO'RGE. See Amurca.
AMPELITE. The aluminous ampelite, is the alum slate; and the graphic, the graphic slate.

AMPELOSA GRIA. (From αμπελος, a vine, and

a cocs, wild.) See Bryonia alba.

AMPHEMERINA. See Amphemerinas.

AMPHEMERINOS. (Form αμφε, about and ημερα, alay.) Amphemerina. A fever of one day's du-

AMPHIARTHRO'SIS. Αμφιαρθρωσις; from αμφι, both, and αρθρωσις, an articulation: so called from its partaking both of diarrhrosis and synarthrosis.) A his partiacing both of diarrinosis and synathrosis.) A mixed species of connexion of bones, which admits of an obscure motion, as is observed in the metacarpal and metatarsal bones, and the vertebra. AMPHIBIUM. (From  $ap\phi_b$ , ambo, and  $\beta_{105}$ , vita.) An amphibious animal, or one that lives both on land

An amphibious animal, or one that fives both on land and in the water. The amphibious amimals, according to Linneus, are a class, the heart of which is furnished with one ventricle and one auricle, in which respiration is in a considerable degree voluntary.

AMPHIBLESTROI DES. (From authority, and redo, a resemblance.)

Reteform or net-like; a term which has been applied to the retina.

AMPHIBLESTROI Some species of actionize and horn-blende have this name.

This is the name given by Haüy, to a mineral, the

[This is the name given by Hady, to a mineral, the synonyms of which are:—
Tremolith of Werner,
La Tremolithe of Brochant,
Grammatize of Brogniart,
Tremolite of Cleaveland. A.]

Amthrolitise. Trap rocks are so called in geology, the basis of which is hornblende.
AMPHIBRA TOCHIA. (From αμφι, about, and βασαχια, the jaws.) The fances or parts about the tonsits, according to Hippocrates and Foësius.

Amphical Strike. (From αμφι, about, and καυχις, the corn.) I. A sort of wild barley.

ripe corn.) 1. A sort of wild barley.

2. Eustachius says, it was also to express the pri-

vate parts of a woman.

AMPHIDEON. (From aμφι, on both sides, and δαιω, to divide.) Amphedeam. The os fures, or month of the womb, which opens both ways, was so called by the ancients.

AMPHIDIARTHRO SIS. The same as Amphiar-

AMPHIGENE. A name of Vesuvian.

(This name is given by Haüy to that crystalline substance, frequently found among volcanic productions, and which other mineralogists have called Low-

AMPHIMERINA. (From αμφι, about, and ημερα,

a day.) A fever of one day's continuance.

AMPHIME TRION. (From aμφι, about, and μητρα, the womb.) Amplimetrium. The parts about

76a; the womb.) companies return the womb. Hopperature, the womb. Hopperature, A'sommen.

A'sommen.ex. (From apφ., about, and πλεκτφ, to confine). According to Raths Ephresius, the part summed between the scrotum and ams, and which is connected with the thighs.

connected with the thighs.

AMPHIFREMA. (From apple, about, and πνευμα, breath.) A difficulty of breathing.—Hippocrates.

AMPHIFROLIS. (From apple, about, and πολεω, to attend.) Amphipolus. One who attends the bed of a sick person, and administers to him.—Hippocrates.

AMPHISM'LA. (From apple, on both sides, and σμιλη, as incision-knife.) A dissecting knife, with an edge on both sides. (Froden.

AMPLEXICAULIS, (From amplector, to surround, and caulis, a stem.) Embracing or clasping the stem. Folium ample cicaule is a leaf, the base of which surrounds the stem, as in Papaver sometherum which surrounds the stem, as in Paparer somniferum and Cardius marianus; and the Senerio hirsutus, has a leafstalk which embraces the stem as its base.

 a least are which embraces the stein as its object.
 AMPU'I.LA. (Aμβολλα; from αναβαλλω, to swell out.) A bottle.
 1. All bellied vessels are so called in chemistry, as bolt-heads, receivers, cucurbits, &c 2. In anatomy this term is applied by Scarpa to the

dilated portions of the membranaceous semicircular canals, just within the vestibulum of the ear.

3. In botany; it is a small membranaceous bag attached to the roots and the emersed leaves of some

attached to the roots and the emersed leaves of some aquatic plants, rendering them buoyant.—Thompson.— AMPULLE'SCENS. (From ampulla, a bottle,) The most tunid part of the thoracic duct is called alampullescens.

AMPUTA'TIO. (From amputo, to cut off.) Ectome.

AMPUTATIO. (From empulo, to cut off.) Ectome. Amputation; a surgical operation, which consists in the removal of a limb or viscus: thus we say, a leg, a finger, the penis, &c. wher cut off, are amputated; but when speaking of a tumour or excrescence, it is said to be removed, or dissected out.

AMULETUM. (From empla, a bond; because it was tied round the person's neck; or rather from approx, to defend.) An annulet, or charm; by wearing which the person was supposed to be defended from the admission of all evil; in particular, an antidote nearing the plague. against the plague

Amu'rca. (From αμεργω, to press out.) Amorge. A small herb, whose expressed juice is used in AMU'RCA.

1. A manufacture of the olive, after the oil has been pressed from it; recommended by Hippocrates and Galen as an application to ulcers.

-ΔΑΜ΄ΤΙΚΑ. (From μηντ μα, to scratch.) Medicines that, by velicating α, restarching, as it were, the bronchia stimulate it to the discharge of whatever is to chia, stimulate it to the discharge of whatever is to be thrown off the lungs.

Α' MYCHE. (From αμυσσω, to scratch.)

A MYCHE. (From aproved, to estate).

1. A superficial laceration or exulceration of the in: a slight wound.—Hippocrates.

skm: a signt woma.— πηροστατες.
2. Scarification.— (aden.
AMY GDALA. (Amyg dala, a.f.; Αμυγδαλη; from apunca, to lancinate: so called, because after the green husk is removed from the fruit, there appear upon the shell certain fissures, as it were lace-

1. The fruit called the almond. See Amygdalis

2. The tonsil glands of the throat are sometimes termed, from their resemblance, Amygdala.

AMYGDALA AMARA. The bitter almond. See Amygdalus communis.

AMYGDALA DULCIS. The sweet almond. See Amyg- of the other dulco-acid summer fruits may be prodalus communis.

AMYGDAL & OLEUM. See Amygdalus communis

AMYGDAL & OLEUM. See Amygdalus communis.

AMYGDALGOID. (Amygdalusdes; from amygdalus, an almond, and ridor, resemblance.) Almond like.

1. A name given to some parts of the body and to parts of vegetables and minerals, which resemble

. A compound mineral consisting of spheroidal particles or vesicles of lihomarge, green earth, cale spar, steatite imbedded in a basis of line grained green-stone or wacke, containing sometimes, also, crystals of

[Amygdaloid is a compound rock, composed of a basis, in which are imbedded various simple minerals. But these imbedded minerals are not crystals and grains, apparently of cotemporaneous origin with the basis itself, as in the case of porphyry. On the contrary, their form, though sometimes irregular, is usually spheroidal or oval, like that of an almond; and hence the name of this rock, (from Amygdala, an almond.) -Cleav. Min. A.]
AMY GDALUS.

—Clear. Mm. A.]

AMY'GDALUS. (Amygdalus, i.m.; from amygdala, the derivation of which look to.) The name of a genus of plants in the Linnaran system. Class Icosandria; Order, Monogynia. The almond-tree.

AMYGDALUS COMMUNIS. The systematic name of the plant which affords the common almond. Amyg-

dalus—foliis serratis infimis glandulosis, floribus ses silibus geminis of Linuæus.

The almond is a native of Barbary. The same tree produces either bitter or sweet. Sweet almonds are more in use as food than medicine; but they are said to be difficult of digestion, unless extremely well com-minuted. Their medicinal qualities depend upon the oil which they contain in the farinaceous matter, and which they afford on expression, nearly in the propor-tion of half their weight. It is very similar to olive oil; perhaps rather purer, and is used for the same purposes. The oil thus obtained is more agreeable to the palate than most of the other expressed oils, and is the palate than most of the other expressed oils, and is therefore preferred for internal use, being generally employed with a view to obtund acrid junes, and to soften and relax the solids, in tickling couglis, hoarseness, costiveness, nephritic pains, &c. Externally, it is applied against tension and rigidity of particular parts. The milky solutions of almonds in wavery liquors, usually called emulsions, possess, in a certain degree, the emollient qualities of the oil, and have this advantage over pure oil, that they may be given in degree, the emollient qualities of the oil, and have this advantage over pure oil, that they may be given in acute or inflammatory disorders, without danger of the ill effects which the oil might sometimes produce by turning rancid. The officinal preparations of almonds are the expressed oil, the confection, and the emulsion; to the latter, the addition of gum-arabut is sometimes directed, which renders it a still more useful demulcent in catarrhai affections, stranguries, &c.

Bitter almonds yield a large quantity of oil, perfectly similar to that obtained from sweet almonds, but the matter requaining after the expression of the oil is

the matter remaining after the expression of the oil, is more powerfully bitter than the almond in its entire state. Great part of the bitter matter dissolves by the assistance of heat, both in water and rectified spirit; and a part arises also with both menstrua in distilla-tion. Bitter almonds have been long known to be poisonous to various brute animals; and some authors have alleged that they are also deleterious to the human species; but the facts recorded upon this point appear to want further proof. However, as the noxons quality seems to reside in that matter which gives it the bitterness and flavour, it is very probable, that when this is separated by distillation, and taken in a sufficiently concentrated state, it may prove a poison to man, as is the case with the common hand, to which it appears extremely analogous. Bergius tells which it appears extremely analogous. Begins felicus, that bitter almonds, in the form of emulsion, enced obstinate intermittents, after the bark had failed. A simple water is distilled from bitter almonds, after the oil is pressed out, which possesses the same qualities, and in the same degree, as that drawn from circrystones. These afforded, formerly, the now-exploded aqua crasorum nigrorum, or black cherry-water.

ANYSDALUS PERSICA. The systematic name of the common peach-tree. The fruit is known to be grateful and wholesome, seldom disagreeing with the stomach, unless this organ is not in a healthy state, or the finit.

unless this organ is not in a healthy state, or the fruit has been eaten to excess, when effects similar to those

duced. The ficwers, including the calyx as well as the corolla, are the parts of the persica used for medithe cotona, are the parts of the persica used to mean-cinal purposes. There have an agreeable but weak smed, and a bisterish taste. Bouldue observes, "that when distilled, without addition, by the heat of a water-bath, they yield one-sixth their weight, or more, one archivish liquid which assumptions to a consiwater hard, thay you be saven then weight a most of a whitish liquid, which communicates to a consi-derable quantity of other liquids a flavour like that of the kernels of fruits. These flowers have a cathartic effect, and especially to children, have been success fully given in the character of a vermituge; for this purpose, an infusion of a drachm of flowers dried, or half an ounce in their recent state, is the requisite dose. The leaves of the peach are also found to possess anthelmintic power, and from a great number of experiments appear to have been given with invariable success both to children and adults. However, as the leaves and flowers of this plant manifest, in some degree, the quality of those of the laurocerasus, they ought to be used with caution."

A'MYLA. (From amylum, starch.) This term has been applied to some chemical feecula, or highly pul-

verized residuum. Obsolete.

Amylion. Starch. Amy Leon. Amylom. Starch.
A'MYLUM. (Amylom, i. n. Αμυλου; from a, priv. and μυλη, a mill; because it was formerly made from wheat, without the assistance of a mill.) Amylom. See Starch.
AMY R1S. (From a, intensive, and μυρον, ointment, or balm; so called from its use, or smell.) The name of a genus of piants in the Linnean system. Class, Octandrius; Order, Monogynia, of which two species are used in medicine.

AMYRIS ELEMIFERA. The systematic name of the plant from which it is supposed we obtain the resin called gum-clemi. The plant is described by Linnæus; Amyris: -folies ternis quinato pinnatisque subtus to montosis. Elemi is brought here from the Spanish West Indies: it is most esteemed when softish, somewhat transparent, of a pale whitish colour, inclining a little to green, and of a strong, though not umpleasant smell. It is only used in outments and plasters, and is a powerful digestive.

AMYRIS GILEADENSIS. The systematic name of the plant from which the opobalsamum is obtained. It has been called by a variety of names, as Bolsamum genuinum antiquorum; Balsamelwon; Æguptiacum balsamum; Balsamum Asiaticum; Balsamum Judaicum, Bulsamum Syriacum; Balsamum e Moccu; Bulsamum Alpini; Oteum bulsami; Carpobalsamum; Xylobal-samum. Balsam, or balm of Gilead; Balsam of Mecca. A resinous juice, obtained by making incisions into the bark of the Amyris: -folias ternatis integerrimis, pedunculis unifloris lateralibus of Linnaus. This tree grows spontaneously, particularly near to Mecca, on the Asiatic side of the Red Sea. The juice of the fruit is termed carpobalsamum in the pharmacoperas, and that of the wood and branches rylobolsamum. best sort is a spontaneous extuation from the it is held in so high estimation by the Turks, that it is held in so high estimation by the Turks, that it is best sort is a spontaneous exudation from the tree, and rarely, if ever, to be met with genuine among us. medicinal virtues of the genuine balsam of Gilead, have been highly rated, undoubtedly with much exaggera-tion. The common balsam of Mecca is scarcely used; but its qualities seem to be very similar to those of the balsam of Tolu, with perhaps more acrimony. dose is from 15 to 50 drops.

(From a, priv. and µus, muscle.) A limb so emaciated that the muscles scarcely appear.

ANA. In medical prescriptions it means "of each." See A.

ANA BASIS. (From avabarro, to ascend.)

1. An ascension, augmentation, or increase of a disease, or paroxysm. It is usually meant of fevers.—

2. A species of the equisetum, or horse-tail plant, Anaba rica. (From avabatio, to ascend.) An epithet formerly applied to a continual fever, when it

epithet formerly applied to a common increases in multipulty.

ANABEXIS. (From araboration, to cough up.) An expectoration of matter by coughing.

ANABLE PSIS. From ara and βλεπω, to see again.) The recovery of sight after it has been lost.

ANABLESTS. (From ara and βλεπω, to gush out again.) Ebullition or effervescence.

ANABLEST. (From arabaλλω, to cast up.) The

distharge of any thing by vomit; also dilatation, or; extension. - Galen.

(From ava and Booxew, to reab-ANABROCHE SIS.

sorb.) The reabsorption of matter.

Anabrochi's mos. (From αναβροχεω, to reabsorb.)
Inabrochismus. The taking up and removing the hair Anabrochismus. The taking up and removing the ha

Galon, Againsta, and others.

ANABRO'SIS. (From αναβροσκω, to devour.) A corrosion of the solid parts, by sharp and biting

corrosion of the Solid parts, by strarp and constant in the Minimours.—Galen.

ANAC ARDIUM. (From ava, without, and καρδια, a heart.) Without heart; because the pulp of the fruit, instead of having the seed enclosed, as is usually the case, has the nut growing out of the end of it. The name of a genus of plants. Class, Enneandria; Order, Monogynia

ANACARDIUM OCCIDENTALE. The cashewnut. oil of this nut is an active caustic, and employed as such in its native country: but neither it, nor any part of the fruit, is used medicinally in this country. a useful marking ink, as any thing written on linen or cotton with it, is of a brown colour, which gradually grows bisoker, and is very durable.

Anacardium orientals. The Malacca bean. See

Avicennia toment

ANACATHA'RSIS. (From ava, and καθαιρομαι, to purge up. An expectoration of pus, or a purgation by spitting, contra-distinguished from catharsis, or evacuation downwards. In this sense the word is used by Hippocrates and Galen. Blauchard denotes, by this word, medicines which operate upwards, as

vomiting, &c.
ANACATHA'RTIC. (Anacatharticus; from avaκαθαιρομαι, to purge upwards.) Promoting expecto-

ration, or vomiting

ANA'CHRON. Mineral atkali. ANA'CLASIS. (From ανακλαω, to bend back.) reflection or recurvature of any of the members, accord-

remension of recurvature of any of the memoes, according to Hippocrates.

ANA'CLISIS. (From ανακλενω, to recline.) A couch, or sick-bed.—Hippocrates.

ΑΝΑΟ'CHAE. (From ανακαχεω, to retard.) Delay in the administration of medicines; also slowness in the content of the content the progress of a disease.—Hippocrates.
ANACŒLIA'SMUS. (From ava, and κοιλια, the

bowels.) A gentle purge, which was sometimes used to relieve the lungs.

ANACOLLE MA. (From aνα, and κολλαφ, to glue together.) A collyrium made of agglutinant substances, and stuck on the forehead.—Galen.

stances, and stuck on the foreneed.—Galen.
Anaconcholismos. (From avakrayya)(2,0,0 sound
as a shell.) A gargarism: so called, because the noise
made in the throat is like the sound of a shell.—Galen.
ANACPESIS. (From avakraojat, to recover.)
Restoration of strength; recovery from sickness.—

Hippocrates.
ANACUPHI'SMA. (From ανακουφίζω, to lift up.)
A kind of exercise mentioned by Hippocrates, which
consists in lifting the body up and down, like our weigh jolt, and dumb bells.

ANACYCE SIS. (From avarurau, to mix.) The mixture of substances, or medicines, by pouring one

upon another.

ANACY'CLEON. (From ανακυκλοω, to wander about.) Anacycleus. A mountebank, or wandering

ANACYRI'OSIS. (From ava, and kupos, authority.) By this word, Hippocrates means that gravity and authority which physicians should preserve among sick people and their attendants.

ANADIPLO SIS. (From αναδιπλοω, to redupti-

cate.) A reduplication or frequent return of a parox-

ysm, or disease.— Galen.

Ana' posis. (From aνω, upwards, and διδωμι, to give.) 1. A vomit.
2. The distribution of aliment all over the body.
3. Digestion.

DROME. (From ανω, upwards, and δοεμω, to A pain which runs from the lower extremities ANA DROME.

run.) A pain which runs from the lower extremities to the upper parts of the body.—Hippocrates.

Anxives. (From a, priv. and acious, a shame.) Shameless. Hippocrates uses this word metaphorically for without restraint; and applies it to water rushing into the aspera arteria.

ANXESTHE SIA. (Anasthesia, α. f. Αναισθησια; from a, priv. and αισθανομαι, to feel.) Loss of the δ2

A genus of disease in the class sense of touch.

sense of fouch. A genus of disease in the class Locales, and order Diseasthesis of Cullen. ANAGA LLLIS. (From avaychao, to laugh; be-cause, by curing the spheen, it disposes persons to be cheerful.) 1. The name of a genus of plants in the Linnaan system.

2. The pharmacopæial name of the anagallis

ANGALLIS ARVENSIS. The systematic name for the Angallis—folus indivisis, caule procumbente of Linnaus. A small and delicately formed plant, which does not appear to possess any particular properties.

ANALIGATION. (From ang. and yanyangaw), the throat.

ANALIGATION ANGALY.

ANAGARGARI STUM. A gargle.

ANAGLYPHE. (From αναγλυφω, to engrave.)

A part of the fourth ventricle of the brain was formerly thus called, from its resemblance to a pen, or style.

ANAGNO'SIS. (From αναγινωσκω, to know.)
The persuasion, or certainty, by which medical may judge of a disease from its symptoms.—Hippocrates.

ANA'GRAPHE. (From αναγραφω, to write.) A

ANA GRAPHE. (From araypagos, to write.) A prescription or receipt.

ANALCINE. Cubic zeolite. A mineral found in granite, gueiss, trap rocks, and lavas, at Calton Hill, Edinburgh, in Bohemia, and Ferroe islands. From its becoming feebly electrical by heat, it has got this name. [Derived from Avakas, Weak.]

ANALE'NTIA. A fictitious term used by Paracelsus

ANALE'NTA. A nothious term user by relacent for epilepsy.

ANALE'PSIA. (From ava, and λαμβανω, to take again.) A species of epilepsy, which proceeds from a disorder of the stomach, and with which the patient is apt to be seized very often and suddenly.

ANALE'PSIS. (From avaλμβανω, to restore.) A recovery of strength after sickness.

ANALE'PTIC. (Analepticus; from avaλαμβανω, to recruit or recover.) That which recovers the strength which has been lost by sickness.

ANALO'SIS. (From avaλισκω, to consume.) A consumption, or washing.

consumption, or wasting.

ANA LYSIS. (Arabutis; from arabuw, to resolve.) The resolution by chemistry, of any matter into its primary and constituent parts. The processes and experiments which chemists have recourse to, are ex-tremely numerous and diversified, yet they may be reduced to two species, which comprehend the whole art of chemistry. The first is, analysis, or decompoart of chemistry. The first is, analysis, of decomposition; the second, synthesis, or composition. In analysis, the parts of which bodies are composed, are separated from each other: thus, if we reduce cinnabar, which is composed of sulphur and mercury, and exhibit these two bodies in a separate state, we we have decomposed or analyzed cinnabar. on the contrary, several bodies be mixed together, and on the contrary, several bodies be mixed together, and a new substance be produced, the process is then termied chemical composition, or synthesis: thus, if by fusion and sublimation, we combine mercury with sulphur, and produce cinnabar, the operation is termed chemical composition, or composition by synthesis. Chemical analysis consists of a great variety of operations. In these operations the most extensive knowledge of such properties of bodies as are already discovered must be applied, in order to produce simplicity of effect and certainty in the results. Chemical and of effect, and certainty in the results. Chemical anaor enect, and certainty in the results. Chemical analysis can hardly be executed with success, by one who is not in possession of a considerable number of simple substances in a state of great purity, many of which, from their effects, are called reagents. The word analysis is often applied by chemists to denote that series of operations, by which the component parts of hodies are determined, whether they be merely separated, or exhibited apart from each other; or whether these distinctive properties be exhibited by causing them to enter into new combinations, without the perceptible intervention of a separate state; and, in the chemical examination of bodies, analysis or separation can scarcely ever be effected, without synthesis taking place at the same time.

ANAMNE'SIS. (From αναμιμησκω, to remember.) Remembrance, or recollection of what has been done.

ANAMNE'STIC. (From the same.) A remedy for bad memory, or whatever strengthens the memory. ANA'NAS. The egg-shaped pine-apple. See Bromelia Ananas. Ana'nce. (From αναγκαζω, to compel.)

sity. It is applied to any desperate operation.—Hip- | gross to pass by these, it raises the cuticle in small

Anaphalanti'asis. (From αναφαλαντος, bald.) thinness of hair upon the eyebrows .- Gorraus

ANA PHORY XIS. (From aναφορυσσω, to grind

down.) The reducing of any thing to dust, or a very

ANAPHRODI'SIA. (Anaphrodista, & f.; from a, priv. and asposiaca, the feast of Venus.) Impotence. A genus of disease in the class Locales, and order Dysorczia of Cullen. It either arises from paralysis, ana phrodisia paralytica; or from gonorrhea, anaphrodisia gonorrhoica.

ANAPHRO'MELL. (From a, neg. aφρος, froth, and

μελι, boney.) Clarified honey.

ANAPLA SIS. (From αναπλασσω, to restore again.)

A restoration of flesh where it has been lost; also the

reuniting a fractured bone.—Hippocrates.
ANAPLERO'SIS. (From αναπληροω, to fill again.)

ANAPLERO SIS. (From avaryangous to its sgain.)
The restitution or filling up of wasted parts.—Galen.
ANAPLERO TIGA. (From the same.) Medicines renewing flesh: incarnatives, or such medicines as fill up a wound so as to restore it to its original shape.—

Anapleu'sis. (From αναπλευω, to float upon.) The rotting of a bone, so that it drops off, and lies upon the flesh. Exfoliation, or separation of a bone.—Hippocrates, Ægineta, &c.

ANAPNEU'SIS. (From αναπνευω, to respire.) Res-

piration.
ANA'PNOE. Respiration.
ANAPTO'SIS. (From αναπιπ7ω, to fall back.) A relapse

ANA PTYSIS. The same as Anacatharsis.

Anarrhegni mia. (From ava, and δηγνυμι, to break again.) Anarrhexis. A fracture; the fresh opening of a wound.

opening of a wound.

ANARRIŒ'A. (From ava, upwards, and μεω, to flow.) A flux of humours from below upwards.—
Schneider de Catarrho.

Anarrho'Fla. (From ava, upwards, and ρεπω, to creep.) A flux of humours, from below upwards.— Hippocrates.

A'NAS. (Anas, tis. f.; from vew, to swim, a nando.) A genus of birds in the Linnæan system.

Anas cyonus. The swan. The flesh of the young swan or cygnet is tender, and a great delicacy.

Anas Domestica. The tame duck. The flesh of this bird is difficult of digestion, and requires that warm and stimulating condiments be taken with it to

enable the stomach to digest it.

ANASA'RCA. (Anasarca, æ.f.; from ava, through, and avaž, flesh.) Sarcites. A species of dropsy from a serous humour, spread between the skin and flesh, or rather a general accumulation of lymph in the cel-Dr. Cullen ranks this genus of disease in the class Cachexia, and the order Intumescentia. He enumerates the following species, viz. 1. Anasurca serosa: as when the due discharge of serum is suppressed, &c. 2. Anasarca oppilata: as when the blood-vessels are considerably pressed, which happens to many pregnant women, &c. 3. Anasarca exanthematica: this happens after ulcers, various eruptive disorders, and particularly after the crysipelas. 4. Anasarca anamia happens when the blood is rendered extremely poor from considerable losses of it. 5. Anasarca debilium; as when feebleness is induced by long illness, &cc.

This species of dropsy shows itself at first with a swelling of the feet and ancies towards the evening, which, for a time, disappears again in the morning The tumefaction is soft and inelastic, and when pressed upon by the finger, retains its mark for some time, the skin becoming much paler than usual. By degrees the swelling ascends upwards, and occupies the trunk of the body; and at last, even the face and eyelids appear the body; and at last, even the face and eyelids appear full and bloated; the breathing then becomes difficult, the urine is small in quantity, high coloured, and deposities a reddish sediment; the belly is costive, the perspiration much obstructed, the countenance yellow, and a considerable degree of thirst, with emaciation of the whole body, prevails. To these symptoms succeed to por, heaviness, a troublesome cough, and a slow fever. In some cases the water ozzes out, through the pores of the cuttele; in others, being too

blisters; and sometimes the skin, not allowing water to escape through it, is compressed and he ened, and is at the same time so much distended as to give the tumour a considerable degree of firmness.

For the curies of this disease, see Hydrops.

In those who have died of anasarca, the whole of the cellular membrane has been distended with a fluid, mostly of a serous character. Various organic dis-eases have occurred; and the blood is said to be altered in consistence, according to the degree of the disease. in consistence, according to the degree of the disease. In general a cure can be more readily effected when it arises from topical or general debility, than when occasioned by visceral obstruction; and in recent cases, than in those of long continuance. The skin becoming somewhat moist, with a diminution of thirst, and increased flow of urine, are very favourable. In some few cases the disease goes off by a spontaneous crisis by vomiting, purging, &c. The indications of treatment in anasarca are, 1. To evacuate the fluid already ment in an ansare are, it to be accurate the management, collected. 2. To prevent its returning again. The first object may be attained mechanically by an operation; or by the use of those means, which increase the action of the absorbents: the second by removing any exciting causes, which may still continue to operate and at the same time endeavouring to invigorate the Where the quantity of fluid collected is such as to disturb the more important functions, the best mode of relieving the patient is to make a few small incisions with a lancet, not too near each other, through the integumen's on the fore and upper part of each thigh; the discharge may be assisted by pressure and when a sufficient quantity has been evacuated, it and when a sometimed quantity has been evacuated, it is better to heal them by the first intention. In the use of issues or blisters, there is some risk of inducing gargene, especially if applied to the legs; and the same has happened from scarifications with the cupping in-Absorption may be promoted by friction, and bandaging the parts, which will at the same time obviate farther effusion; but most powerfully by the use of different evacuating remedies, especially those which occasion a sudden considerable discharge of fluids. Emetics have been often employed with adrantage; but it is necessary to guard against weakening the stomach by the frequent repetition of those which produce much nausea; and perhaps the benefit results not so much from the evacuation produced by the mouth, as from their promoting other excretions; antimonials in particular inducing perspiration, and squill increasing the flow of urine, &c.; for which purpose they may be more safely given in smaller doses: in very torpid habits, mustard may claim the prefer ence. Catharties are of much greater and more general utility; where the bowels are not particularly irri-table, the more diastic purgatives should be employed and repeated as often as the strength will allow; giv-ing, for example, every second or third morning, jalap, rang, for examine, every second to that morning, jump, scanmony, colocynth, or gamboge, joined with calo mel or the supertactrate of potassa and some aromatic, to obviate their griping. Elaterium is perhaps the most powerful, generally vomiting as well as purging the patient, but precarious in its strength and there-fore better given in divided doses, till a sufficient effect is produced. Diuretics are universally proper, and may be given in the intervals, where purgatives can be borne, otherwise constantly persevered in; but un-fortunate, the effects of most of them are uncertain. fortunate; the effects of most of them are uncertain. Saline substances in general appear to stimulate the kidneys, whether acid, alkaline, or neutral; but the acetate, and supertartrate of potassa, are chiefly resorted to in dropsy. Dr. Ferriar, of Manchester, has made an important remark of the latter salt, that its diuretic power is much promoted by a previous opera tion on the bowels, which encourages the more liberal use of it; indeed, if much relied upon, a drachm or two should be given three times or oftener in the day. It is should be given three times or oftener in the day. It is obviously, therefore, best adapted to those cases, in which the strength is not greatly impaired; and the same holds with the nauseating dureties, squill, col-chicum, and tobacco. The latter has been strongly recommended by Dr. Fowler of York, in the form of tincture; the colchicum, as an oxymel by some German physicians; but the squill is most in use, though certainly very precarious if given alone. In languid and debilitated habits, we prefer the more stimulant diureties, as juniper, horseradish, mustard, garlicathe spiritus ætheris nitricl, &c.; even turpentine.

the tura cantharidis, may be proper, where milder means have failed. Digitals is often a very powerful! remedy, from the utility of which in inflammatory diseases we might expect it to answer best in persons or great natural strength, and not much exhausted by the disorder: but Dr. Withering expressly states that its diuretic effects appear most certainly and beneficially, where the pulse is feeble or intermitting, the countenance pale, the skin cold, and the tumous readily pit-ting on pressure; which has been since contirmed by other practitioners: it should be begun with in small other practitioners it sound to doses two or three times a day, and progressively increased till the desired operation on the kidneys ensues. unless alarming symptoms appear in the mean time Option and some other narcotics have been occasionally useful as diuretics in dropsy, but should be only regarded as adjuvants, from their uncertain effects In the use of diurcities, a very important rule is, not to testrict the patient from drinking freely. This was formerly thought necessary on theoretical grounds; whereby the thirst was aggravated to a distressing degree, and the operation of remedies often prevented, especially on the kidneys. Sir Francis Milman first taught the impropriety of this practice, which is now generally abandoned; at least so long as the flow of urine is increased in proportion to the drink taken, it is considered proper to indulge the patient with it.

Another evacuation, which it is very desirable to promote in anasarca, is that by the skin, but this is with difficulty accomplished: nauscating emetics are the most powerful means, but transient in their effect, and their frequent use cannot be borne. If a gentle dia-phoresis can be excited, it is as much as we could ex-pect; and perhaps on the whole most beneficial to the patient. For this purpose the compound powder of the patient. ipecacuanha, saline substances, and antimonials in Bmall doses, assisted by tepid drink, and warmth ap-plied to the sarface, may be had recourse to. Sometimes much relief is obtained by promoting perspira times much retired is obtained by promoting perspira-tion locally by means of the vapour-bath. Mercury has been much employed in dropsy, and certainly ap-pears often materially to promote the operation of other evacuants, particularly squill and digitalis; but its chief utility is where there are obstructions of the viscera, especially theliver, of which, however, asches is usually the first result: its power of increasing ab-sorption hardly appears, unless it is carried so far as to affect the mouth, when it is apt to weaken the system so much as greatly to limit its use. The other indication of invigorating the constitution, and particularly the exhalant arteries, may be accomplished by tonic medicines, as the several vegetable bitters, chalybeates in those who are remarkably pale, and, if there be a anguid circulation, standards may be joined with them: a similar modification will be proper in the diet, which should be always as nutrificus as the patient can well digest; directing also in torpid habits pungen articles, as garlic, onions, mustard, horseradish, &c. to be freely taken, which will be farther useful by promoting the urine. Rhenish wine, or punch made with ho lands and supertartrate of potassa, may be allowed for the drink. Regular exercise, such as the patient can bear, (the limbs being properly supported, especially by a well contrived laced stocking) ought to be enjoined, or diligent friction of the skin, particularly of the affected paras, employed when the tuwestaction is usually least, namely, in the morning. The cold bath duly regulated, may also, when the patient is convalescent, materially contribute to obviate a release. Regular exercise, such as the patient

ANASPA'SIS. (From ana, and σπαω, to draw to-getner.) Hippocrates uses this word to signify a con-

traction of the stomach.

And sayros. From and, upwards, and occopial, to agitate Amessatus. Driven forcinly upwards. Hippocrates applies this epither to air rushing violently upwards, as in hysteric fits.

A recovery from sickness; a restoration of health.

2. It likewise signifies a migration of humours, when expelled from one place and obliged to remove to anoer.—Hippogrates.
ANASTOMO'SIS. (From ava, through, and 50µa,

a mouth.) The communication of vessels with one another

ANASTOMO'TIC. (Anastomoticus; from ara, through, and gopus the mouth.) That which opens the pores and mouths of the vessels, as cathartics, diuretics, deobstruents, and sudorifics.

ANATASE. A mineral found only in Dauphiny

and Norway.

This name is given by Hauy and Brogniart, to the octahedral oxide of Titanium, which has been found in various parts of the United States, in the forms of

The oxide of titanium, The ferruginous oxide,

The silico calcareous oxide.

See Bruce's Mineralogical Journal, in which numerous specimens are figured and described by him.

rous specimens are figured and described by him. A.)
ANA TES. (From nates, the buttocks.) A disease
of the anus. Festus, &c.
ANA TOMIA. See Inatomy.
ANA TOMY. (Avaroua, or avaroup, Inatomia,
a. I. and Inatomo, cs.) from ava, and τεμιω, to cut
up.) Independency. The dissection or dividing of organized substances to expose the structure, situation, and uses of parts. Anatomy is divided into that of animals strictly so called, also, denominated zootomy,

and that of vegetables or phytotomy.

The anatomy of brute animals and vegetables is comprised under the term comparative anatomy, because their dissection was instituted to illustrate or compare by analogy their structure and functions with

Anatomy, comparative. Zootomy. The dissection of brutes, fishes, polypi, plants, see, to illustrate, or compare them with the structure and functions of ANATRE Sis. (From ara, and rerease, to perforate). A perforation like that which is made upon ANATRE BE. (From an all lower the second second

all over the body.

ANATRI'PSIS. Friction all over the body .- Mos-

ANATRIPSIS. Friction all over the body.—Mos-chivande Morth. Mulicib. and Galan. ANATRON. (Arabian.) The name of a lake in Egypt, where it was produced. See Noda. ANATROPE. (From avarpeno, to subvert.) Ana-trophe; Toutropha. A relaxation or subversion of the stomach, with loss of appetite and nausea. Vomiting; indigestion .- Galen.

ANAU'DIA. (Fre ANAU'DIA. (From a, priv. and audn, the speech.) Dumbness; privation of voice; catalepsy.—Hip-

ANA'XYRIS. (From avalupts, the sole.) The herb sorrel; so called because its leaf is shaped like the sole of the shoe.

ANCEPS. (Anceps, ipitis. adjective.) Two-edged; that is, compressed, having the edges sharp like a two-edged sword; applied to stems and leaves of plants, as in the Sisyrinchium struatum, Iris grammea, and in the Sisyriachium Stranger, in the Sisyriachium Stranger, leaves of the Typha latifolia.

A'NCHA. (Arabian, to press upon, as being the A'NCHA.

A'NCHILOPS. NCHILOPS. (From aγχι, near, and ωψ, the A disease in the inward corner of the eye. See Egilops

ANCHORA'LIS. (From αγκων, the cllow.) The projecting part of the cllow on which we rean, called generally the olectanon. Sec Uhaa.

An noralis Processes. The olectanon, a process

ANCHOVY. See Clupea encrasicolus.

ANCHOVY. See Clupea encrasticulus.
Anchovy Pear. See Grias cauliflora.
ANCHU'SA. (Anchusa, x. f.: from ayxeu, to
strangle: from its supposed constringent quality; or,
as others say, because it istrangles serpenss.) I. The
name of a genus of plants in the Linnacan system.
Class, Pentanirra; Order, Managynia.
2. The name in some pharmacopecius for the alkanet root and bugloss. See Anchusa afficinalis, and
is hum interprise.

Anchusa tinctoria.

Anchusa officinalis. The officinal bugloss. some pharmacopicias it is called Buglossa; Buglossome paramatoperas it is called Riggiossa; Ruglossus assum angustifolium majus; Buglossum vulgare majus; Buglossum sativum. Anchusa—jolius Inrecolatis strugosis, spucies secundis indirecties, caluechus quinque partitis, et Linnaun; it was formetly esteemed as a cordial in melancholic and hypochondriacal diseases. It is seldom used in modern practice, and then only as an aperiont and [

Anchusa tinctoria. The systematic name for the anchusa or alkanna of the pharmacoperas. This plant grows wild in France, but is cultivated in our gardens. The root is externally of a deep purple co-lour. To oil, wax, turpentine, and alkohol, it imparts a beautiful deep red colour, for which purpose it is used. Its medicinal properties are scarcely percep-

A'NCHYLE. See Ancyle. ANCHYLOMERI'SMA.

ANCHYLOMENI SMA. (From αγχυλομαι, to bend.) Sagar uses this term to express a concretion, or growing together of the soft parts.

ANCHYLOSIS. (From αγχυλομαι, to bend.) A stiff joint. It is divided into the true and spurious, according as the metics is considered. still joint. It is divided into the true and spurious, according as the motion is entirely or but partly lost. This state may arise from various causes, as tumefaction of the ends of the bones, caries, fracture, dislocation, &c. also dropsy of the joint, fleshy excrescences, aneurisms, and other tumours. It may also be owing to the morbid contraction of the flexor muscles, induced by the limb being long kept in a particular posi-tion, as a relief to pain, after burns, mechanical injuries, &c. The rickets, white swellings, gout, rheuma-tism, palsy, from lead particularly, and some other disorders, often lay the foundation for anchylosis: and the joints are very apt to become stiff in advanced life. Where the joint is perfectly immoveable, little can be done for the patient; but in the spurious form of the complaint, we must first endeavour to remove any cause mechanically obstructing the motion of the joint, and then to get rid of the morbid contraction of the muscles. If inflammation exist, this must be first subdued by proper means. Where extraneous matters have been deposited, the absorbents must be excited to nave been deposited, the absorbents must be exerted to remove them: and where the parts are preternaturally rigid, emollient applications will be serviceable. Fomentations, gentle friction of the joint and of the muscles, which appear rigid, with the camphor linament, &c. continued for half an hour or more two or three times a day; and frequent attempts to move the joint to a greater extent, especially by the patient exerting the proper muscles, not with violence, but steadily for some time, are the most successful means: but no rand improvement is to be expected in deneral but no rapid improvement is to be expected in general Sometimes, in obstinate cases, rubbing the part with warm brine occasionally, or applying stimulant plas-ters of ammoniacum, sc. may expedite the cure; and in some instances, particularly as following rheu-matism, pumping cold water on the part every morning has proved remarkably beneficial. Where there is a great tendency to contraction of the muscles, it will be useful to obviate this by some mechanical contrivance. It is proper to bear in mind, where, from the nature of the case, complete anchylosis cannot be prevented, that the patient may be much less inconvenienced by its being made to occur in a particular position; that is in the upper extremities generally a bent, but in the hip or knee an extended one.

A'NCI. A term formerly applied to those who have a distorted elbow.

A'NCINAR. BOTAK.

ANCIPITIUS. (From Anceps.) Two-edged: applied to a leaf which is compressed and sharp at both edges, as that of the Typha latifolia.
Ancirome'le. See Ancylomele.

A'NCON. (From αγκαζομαι, to embrace; απο του αγκεισθαι ετερω ος εω το ος εον: because the bones meeting and there uniting, are folded one into another.) The elbow

ANCONEUS. (From ayκων, the elbow.) A small triangular muscle, situated on the back part of the elbow. Anconeus minor of Winslow; Anconeus vel cubitalis Riolani of Douglas. It arises from the ridge, and from the external condyle of the humerus, by a thick, strong, and short tendon: from this it becomes flexible and a fore running about three inches obliquely. fleshy, and, after running about three inches obliquely backward, it is inserted by its oblique fleshy fibres into the back part or ridge of the ulna. Its use is to extend the fore-arm.

e lote-arm.
Anconeus externus. See Triceps extensor cubiti.
Anconeus internus. See Triceps extensor cubiti.
Anconeus major. See Triceps extensor cubiti.
Anconeus minor. See Incomens.
ANCONOID. (Incomendeus; from ayrow, the cluby.) Releasing to the elboy.

bow.) Belonging to the elbow.

ANCONOID PROCESS. See Ulna.

A'NCTER. (Aykino, a bond, or button.) A fibula button, by which the lips of wounds are held to-

ANCTERIA SMUS. (From agrano, a button.) The operation of closing the lips of wounds together by loops, or buttons .- Galen.

ANCE BITUS. A disease of the eves with a sensation

ANCULE. (From aykolos, crooked.) Ancylos.
ANCYLE. (From aykolos, crooked.) Anchyle.
ANCYLE. (From aykolos, crooked.) Anchyle.
Aspectas of contraction, called a stiff joint.—Galen
ANCYLOBLE THARON. (Ancyloblepharum, i. n.;
from aykolos, and Bokapaov, an eyelid.) A
disease of the eye, by which the eyids are closed tomulter—Agine. gether .- Jelius

ANCYLOGLO'SSUM. (Ancyloglossum, i.n.; from ayκυλη, a hook, and γλωσσα, the tongue.) Ancylion of Agricta. Tongue-tied. A contraction of the franulum of the tongue.

ANCYLOME LE. (From aykulos, crooked, and unly, a probe.) Ancyromele: Anciromele. A crooked probe, or a probe with a hook, with which surgeons

search wounds.—Galen, &cc.

ANCYLO'SIS. See Anchylosis.

ANCYLO'SIS. See Anchylosis.

ANCYLO'TOMUS. (From ayxen), a hook, and τεμνω, to cus.) A crooked chirurgical knife, or bistoury. A knife for loosening the fongue, not now used.

A'NOYRA. (A) Evoa, an anchor.) A chirurgical hook. Epicharmus uses this word for the membrum virile, according to Gorræus.

ANCYROTDES. (Ancyroides processus; from axxvoa, an auchor, and ceios, a likeness.) A process of the scapula was so called, from its likeness to the beak of an anchor. The coracoid process of the sca-

pula. See Scapula.

Ancyrong're. See Ancylomele.

ANDALI SITE. A massive mineral, of a flesh, and sometimes rose-red colour, belonging to primitive coun-

someomers rose-red colour, belonging to primitive countries, and first found in Andalusia in Spain.

[It has been found also in the United States. The hardness of this mineral is nearly equal to that of control of the colour states of the more or less distinctly crystalline. It is perfectly information to the colour state of the colour states sible by the blow-pipe. It contains alumine 52, silex

38, potash 8, iron 2.

It differs from feldspar by its greater hardness and its infusibility; and from corundum, by its structure and less specific gravity. Some mineralogists, however, are inclined to believe this mineral to be feldspar intimately mixed with corundum; and hence its hard-

intimately mixed with corundum; and hence its hardness.—Cleav. Min. A.]

\*\*Juderson's pills.\*\* These consist of Barbadoes aloes, with a proportion of jalap, and oil of aniseed.

[ANDERSON, ALEXANDER, M.D. Dr. Anderson, of the city of New-York, received his degree of Doctor in Medicine from the Medical faculty of Columbia College. He afterward turned his attention to the subject of engraving in wood, and finally abandoned his profession of a physician for the employment of an engraver, fin which he now stands preminent, being a self-taught artist. His wood engravings are excellent, and many of them equal copperplate. He has made this art subservient to his first profession, by engravings illustrating the interfirst profession, by engravings illustrating the intestines, blood-vessels, &c., as well as subjects of botany and natural history. He is a modest, unassuming man, and is now (1829) in the height of his reputation and usefulness. A.]

[ANDERSON, JAMES, M.D. Having successfully terminated his academical pursuits at an early age, Dr. Anderson commenced the study of medicine under the direction of his subter, a very respectable invasion.

the direction of his tather, a very respectable physician from Scotland. He attended a course of lectures, by Professors Shippen and Morgan, in the school of Philadelphia, then in its infancy; and next sailed for Edinburgh, at that time the focus of medical literature. Edinburgh, at that time the focus of medical literature. Circumstances, which it is unnecessary to mention, not permitting him to tremain long enough to obtain a degree, he returned to this country with an ample certificate, signed by his preceptors, Cullen, the elder Munro, and the whole board of professors. Immediately on his return, he commenced the practice of physic in conjunction with his father. Deeply versed in general, and particularly in medical science, and devoted almost beyond example to the performance of his professional dattes, he soon obtained a reputation, unenjoyed by any of his competitors. unenJoyed by any of his competitors. For a period of upwards of thirty years, he retained a practice of an extent certainly without a parallel in this section of the country. Advancing fapidly toward his sixtieth year, and feeling the infirmities consequent on a life so laborious, he retired to his seat near Chestertown. In this situation, however, he was not allowed the repose which he anticipated. Though the native vigour of his constitution was broken down by the invasion of disease, and by those accidents to which his course of life subjected him, he attended almost to the close of it, to the calls of his patients. He died December 8th, 1820, at his seat in the vicinity of Ches-December on, Maryland, in the 69th year of his age.— Thacher's Med. Biog. A.] ANDI'RA. A tree of Brazil, the fruit of which is bitter and astringent, and used as a vermifuge.

ANDRANATO MIA. (From ανηθ, a man, and τεμνω, to cut.) Andranatome. The dissection of the human body, particularly of the male. - M. Aur. Severinus, Zootome Democrit.

Persuas, Loucone Democrit.

ANDRAPODOCAPÉ LIUS. (From ανδροποδον, a slave, and καπηλος, a dealer.) A crimp. Galen calls by this name the person whose office it was to anoint and slightly to wipe the body, to cleanse the skin from foul-

ANDREOLITE. A species of crop-stone
ANDROCŒTE'SIS. (From area, a man, and kartto, to cohabit with.) 1. The venereal act. The infamous act of sodomy .- Moschion, &c.

ANDROGYNUS. (From aven, a man, and youn, a woman.) 1. An hermaphrodite.
 2. An effeminate person.—Hippocrates.
 3. A plant is said to be androgenous, which produces

both male and female flowers from the same root, as

the wahut, beech, horn-beam, nettle, &c.
ANDRO MACHUS, of Crete, was physician to the emperor Nero. He invented a composition, supposed to be an antidote against poison, called after him. Theriaca Andromacht, which he dedicated to that emperor in a copy of Greek verses still preserved. complicated preparation long retained its reputation, but is now deservedly abandoned.

but is now deservedly abandoned.

ANDRO NION. Andronium. A kind of plaster used by Ægineta for carbuncles, invented by Andron.

ANDROPO GON. (From ανηρ, a man, and πωγων, a beard.) The name of a genus of plants in the Linnæan system. Class, Polygania: Order, Monæcia.

ANDROPOGON NARDUS. The systematic name of Indian nand or spikenard. Spica nardi: Spica Indian.

The root of this plant is an intradiction in the

ca. The root of this plant is an ingredient in the mithridate and theriaca; it is moderately warm and pungent, accompanied with a flavour not disagreeable. It is said to be used by the Orientals as a spice.

Andropogon sch Enanthus. The systematic name Anthorous Sazekari Ros. The systematic hame of the camel-hay, or Sweet-rush. Juncus of oratus; Fenum camelorum; Juncus aromaticus. The dried plant is imported into this country from Turkey and Arabia. It has an agreeable smell, and a warm, bitterish, not unpleasant taste. It was formerly em-ployed as a stomachic and deobstruent.

ANDRO'TOMIA. Androtome. Human dissection,

ANDRO TOMIA. Androtome. Human dissection, particularly of the male.

ANDRY, Nicholas, a physician, born at Lyons in 1638. He was made professor of medicine at Paris in 1701, and lived to the age of 84. Besides a Treatise on Worms, and other minor publications, and contributions in the Medical and Philosophical Journals, he was author of a work, still esteemed, called "Orthopedie," or the art of preventing and removing deformities in children; which he proposed to effect by regimen, exercise, and various mechanical contrivances.

Ane BIUM. (From ayabawa, to ascend.) The herb alkanet, so called from its quick growth. See

ANPLE'SIS. (From ανειλεω, to roll up.) Aneile-An involution of the guts, such as is caused by flatulence and gripes. - Hippocrates.

ANE MIA. (From avepos, wind.) Flatulence.
ANE MONE. (From avepos, wind: so named, because it does not open its flowers till blown upon by the wind.) The name of a genus of plants in the Linnaran system. Class, Polyandria; Order, Polyginia. The wind flower The wind flower.

ANEMONE HEPATICA. The systematic name for the hepatica nobilis of the pharmacopæias. Herba trini-

For a period | tatis. Hepatica, or herb trinity. This plant possesses mildly adstringent and corroborant virtues, with which intentions infusions of it have been drunk as tea, or the powder of the dry leaves given to the quantity of half a spoonful at a time.

The systematic name of the ANEMONE NEMOROSA. ranunculus albus of the pharmacopusias. The bruised leaves and flowers are said to cure tinea capitis applied to the part. The inhabitants of Kamskatka, it is believed, poison their arrows with the root of this

ANEMONE PRATENSIS. The systematic name the Pulsatilla nigricans of the pharmacopeias. This plant, Amono-pidanculo involucrato, prialis apice referis, foliis bipinnatis, of Linnaus, has been received into the Edinburgh pharmacopoia upon the authority of Baron Stoerck, who recommended it as an effectual remedy for most of the chronic diseases affecting the eye, particularly amaurosis, cataract, and opacity of the cornea, proceeding from various causes. He likewise found it of great service in veneral nodes, nocturnal pains, ulcers, caries, indurated glauds, suppressed menses, serpiginous eruptions, melancholy, and palsy. The plant, in its recent state, has scarcely any smell; but its taste is extremely acrid, and, when

chewed, it corrodes the tongue and fauces.

ANENCE PHALUS. (From a priv. and εγκεφαλος, the brain.) A monster without brains. Foolish.—

Galen de Hippocrate.

A'NEOS. A loss of voice and reason.
ANEPITHY'MIA. (From a. priv.

(From a. priv. and επιθυμια,

desire.) Loss of appetite.

A'NESIS. (From ανιημι, to relax.) A remission, or relaxation, of a disease, or symptom. Aētius, &c.

ANE SUM. See Anisum.
ANE THUM (Anethum, i. n. Ανεθον; from avev, afar, and 3εω, to run: so called because its roots run

out a great way.)

1. The name of a genus of plants in the Linnæan system. Class, Pentandria; Order, Digynia.

2. The pharmacopæial name of the common dill.

See Anethum graveoiens.

ANETHUM FENICULUM. The systematic name for the faniculum of the shops. Sweet fennel, Ancthumfructibus ovatis of Linnæus. The seeds and roots of fructions orates of Limbeus. The seeds and flows of this indigenous plant are directed by the colleges of London and Edinburgh. The seeds have an aromatic smell, and a warm sweetish taste, and contain a large proportion of essential oil. They are stomachic and carminative. The root has a sweet taste, but very little aromatic warmth, and is said to be pectoral and dimentia.

ANETHUM GRAVEOLENS. The systematic name of the Anethum of the shops. Anethum—fructibus compressis, of Linnæus.—Dill. Anet. This plant is a native of Spain, but cultivated in several parts of England. The seeds are directed for use by the London and Edinburgh Pharmacopæias: they have a moderately warm, pungent taste, and an aromatic, but sickly smell. There is an essential oil, and a distilled water prepared from them, which are given in flatu-lent colics and dyspepsia. They are also said to prolent colics and dyspepsia. mote the secretion of milk.

ANE'TICA. (Aneticus; from avinual, to relax.)
Medicines which assuage pain, according to Andr

Tiraquell.

ANETUS. (From aνιημι, remitto.) A name given by Good, in his Study of Medicine, to a genus of diseases which embraces intermittent fevers. See No.

Sology.

ANEURI'SMA. (Ancurisma, matis, neut. Ανευρυσμα; from ανευρυνω, to dilate.) An aneurism; a
preternatural tunour formed by the dilatation of an
artery. A genus of disease ranked by Cullen in the
class Locales, and order Tumores. There are three species of aneurism: 1. The true aneurism, aneurisma verum, which is known by the presence of a pulsating The artery either seems only enlarged at a small part of its tract, and the tumour has a determinate border, or it seems dilated for a considerable length, in which circumstance the awelling is oblong, and loses itself so gradually in the surrounding parts, that its margin cannot be exactly ascertained. first, which is the most common, is termed circumscribed true ancurism; the last, the diffused true ancu-rism. The symptoms of the circumscribed true aneurism, take place as follows: the first thing the patient

perceives is an extraordinary throbbing in some particular situation, and, on paying a little more attention, the discovers there a small pulsating tumour, which he discovers there a small pulsating tumour, which he discovers there a small pulsating tumour, which entirely disappears when compressed, but returns again as soon as the pressure is removed. It is commonly mattended with pain or change in the colour of the skin. When once the tumour has originated, it continually grows larger, and at length attains a very continually grows larger, and at length attains a very continually grows larger, and indeed, it is almost quite lost, when the disease has acquired much magnitude. The diminution of the pulsation has been ascribed to the coats of the artery, losing their dilatable and elastic quality, in proportion as they are distended and indurated; and, consequently, the aneurismal sacheing no longer capable of an alternate diastole and systole from the action of the heart. The fact is also systole from the action of the heart. The fact is also imputed to the coagulated blood, deposited on the inner surface of the sac, particularly in large aneutisms, in which some of the blood is always interrupted in its motion. In true aneurisms, however, the blood does not coagulate so soon, nor so often, as in false ones. Whenever such coagulated blood lodges in the sac, Whenever shen coagnated blood toges in the say, pressure can only produce a partial disappearance of the swelling. In proportion as the aneurismal sac grows larger, the communication into the artery beyond the tumours is lessened. Hence, in this state, the pulse below the swelling becomes weak and small, and the limb frequently cold and ædematous. On disand the finto frequently cold and ordenatous. On dis-section, the lower continuation of the artery is found preternaturally small, and contracted. The pressure of the tumour on the adjacent parts also produces a variety of symptoms, ulcerations, caries, &c. Some-times an accidental contusion, or concussion, may detach a piece of coagulum from the inner surface of the cyst and the circulation through himself. detach a piece of coagulum from the inner surface of the cyst, and the circulation through the sack be obstructed by it. The coagulum may possibly be impelied quite into the artery below, so as to induce important changes. The danger of an aneurism arrives when it is on the point of bursting, by which occurrence the patient usually bleeds to death; and this sometimes happens in a few seconds. The fatal event may generally be foreseen, as the part about to give way becomes particularly tense, elevated, thin, soft, and of a dark purple colour. 2. The false or spurious aneurism, aneurisma spurium, is always owing to an aperture in the artery, from which the blood gushes into the cellular substance. It may arise from an artery being lacerated in violent exertions; from an artery being lacerated in violent exertions but the most common occasional cause is a wound This is particularly apt to occur at the bend of the arm, where the artery is exposed to be injured in attempting to bleed. When this happens, as soon as the puncture has been made, the blood gushes out with unusual has been made, the blood gusnes out with unusual force, of a bright scarlet colour and in an irregular stream, corresponding to the pulsation of the artery. It flows out, however, in an even and less rapid stream when pressure is employed higher up than the wound. These last are the most decisive marks of the artery being opened; for blood often flows from a vein with great rapidity, and in a broken current, when the vessel is very turgid and situated immediately over the artery, which imparts its motion to it. The surgeon artery, which imparts its motion to it. The surgeon endeavours precipitately to stop the hæmorrhage by pressure; and he commonly occasions a diffused false ancurism. The external wound in the skin is closed, so that the blood cannot escape from it; but insinuates itself into the cellular substance. The swelling thus itself into the cellular substance. The swelling trus produced is uneven, often knotty, and extends upwards and downwards, along the tract of the vessel. The skin is aboutsually of a dark purple colour. Its size increases as long as the internal harmorrhage continues, and, if this should proceed above a certain pitch, mortification of the limb ensues. 3. The varieose area. rism, ancurisma varicosum: this was first described by Dr. W. Hunter. It happens when the brachial artery is punctured in opening a vein: the blood then rushes into the vein, which becomes varicose. Aneurisms may happen in any part of the body, except the latter species, which can only take place where a vein runs over an artery. When an artery has been punctured, the tourniquet should be applied, so as to stop the flow of blood by compressing the vessel above; then the most likely plan of obviating the production of spurious aneurism appears to be applying a firm compress instead of the compression o

possible, enjoining the antipilogistic regimen, and examining daily that no extravasation has happened, which would require the compress being fixed more securely, previously applying the tourniquet, and pressing the effixed blood as much as possible into the vessel. If there should be much coldness or swelling of the limb below, it will be proper to rub it frequently with some spirituous or other stimulant embrocation. It is only by trial that it can be certainly determined when the wound is closed; but always better not to discontinue the pressure prematurely. The same plan may answer, when the disease has already come on, if the blood can be entirely, or even mostly, pressed into the artery again; at any rate, by determining the circulation on collateral branches, it will give greater chance of success to a subsequent operation. There is another mode, stated to have sometimes succeeded, another mode, stated to have sometimes succeeded, even when there was much coagulated blood; namely, even when there was furth congulated about, mankery making strong pressure over the whole limb, by a bandage applied uniformly, and moistened to make it sit closer, as well as to obviate inflammation; but this does not appear so good a plan, at least in slighter cases. If however the tumour be very large, and threatens to burst, or continues spreading, the opera-tion should not be delayed. The tourniquet being applied, a free incision is to be made into the tumour the extravasated blood removed, and the artery tied both above and below the wound, as near to it as may both above and below the wound, as near to it as may be safe; and if any branch be given off between, this must be also secured. It is better not to make the ligatures tighter, than may be necessary to stop the flow of blood; and to avoid including any nerve if possible. Sometimes, where extensive suppuration or caries has occurred, or gangrene is to be apprehended, amputation will be necessary: but this must not be prematurely resolved upon, for often atter several weeks the pulse has returned in the limb below. In the true anguism, when small and recent, cold and the true aneurism, when small and recent, cold and astringent applications are sometimes useful; or making pressure on the tumour, or on the artery above, may succeed; otherwise an operation becomes necessary to save the patient's life; though unfortunately it oftener fails in this than in the spurious kind; gangrene ensuing, or hemorrhage; this chiefly arises from the arteries being often extensively diseased, so that they are more likely to give way, and there is less vital power in the limb. A great improvement has been made in the mode of operating in these cases by Mr. John Hunter, and other modern surgeons, namely, instead of proceeding as already explained in the spurious aneurism, securing the artery some way above. making pressure on the tumour, or on the artery above, rious aneurism, securing the artery some way above, and leaving the rest in a great measure to the powers of nature. It has been now proved by many instances, that when the current of the blood is thus interrupted, the timour will cease to enlarge, and often be considerably diminished by absorption. There is reason for believing too, that the cures effected spontaneously, or by pressure, have been usually owing to the trunk above being obliterated. There are many obvious above being obliterated. There are many obvious advantages in this mode of proceeding; it is more easy, sooner performed, and disorders the system less, particularly as you avoid having a large unhealthy sore to be healed; besides there is less probability of the vessel being diseased at some distance from the tumour. In the popliteal aneurism, for example, the artery may be secured rather below the middle of the thigh, where it is easily come at. The tourniquet therefore being applied, and the vessel exposed, a strong ligature is to be passed round it; or, which is perhaps preferable, two ligatures a little distant, subsequently cutting through the artery between them, when the two portions contract among the surrounding flesh. It is proper to avoid including the nerve or vein, but not unnecessarily detach the vessel from its attachments. For greater security one could of early higher the being thind may be presented. vessel from its attachments. For greater security one end of each ligature, after being field, may be passed through the intercepted portion of artery, that they may not be forced orf. Then the wound is to be closed by adhesive plaster, merely leaving the ends of the ligatures hanging out, which will after some time come away. However it must be remembered that hamorarhage is liable to occur, when this happens, even three or four weeks after the operation; so that proper precautions are required, to check it as soon as possible; likewise the system should be lowered previously, and kept so during the cure. When a true aneurism

changes into the spurious form, which is known by the tumour spreading, becoming harder, and with a less distinct pulsation, the operation becomes immediately necessary. When an aneurism is out of the reach of necessary. When an adversarial sout or intercention an operation, life may be prolonged by occasional bleeding, a spare diet, &c.; and when the tumour becomes apparent externally, carefully guarding it from injury. In the varicose aneurism an operation will be very seldom if ever required, the growth of the tumour being limited

ANEURISMA SPURIUM. See Aneurisma.

Aneurisma varicosum. See Aneurisma. ANEURISMA VERUM. See Ancurisma.

ANE'XIS. (From ανεχω, to project.) A swelling,

or protuberance ANGEIOLO'GY. (Angeiologia, a.f.: from αγγειον,

a vessel, and λογος, a discourse.) A dissertation, or reasoning, upon the vessels of the body.

ANGEIOTISMUS. (From aγγειογ, a vessel, and τεμνω, to cut.) An angelotomist, or skilful dissector of

ANGEIO TOMY. (Angeiotomia; from αγγειον, a vessel, and τεμνω, to cut.) The dissection of the bloodvessels of an animal body; also the opening of a vem,

ANGE LICA. (So called from its supposed angelic virtues.) I. The name of a genus of plants in the Linnwan system. Class Pentandria; Order, Digynia.

2. The pharmacopæial name of the garden angelica.

See Angelica archangelica. The systematic name ANGELICA ARCHANGELICA. for the angelica of the shops. Milzadella . Ingelica foliorum impari lobato of Linnœus. A plant, a native of Lanland but cultivated in our gardens. The roots of angelica have a fragrant, agreeable smell, and a bitterish, pungent taste. The stalk, leaves, and seeds, which are also directed in the pharmacopaias, possess the same qualities, though in an inferior degree. virtues are aromatic and carminative. A sweatmeat is made, by the confectioners, of this root, which is extremely agreeable to the stomach, and is surpassed only by that of ginger.

Angelica, garden. See Angelica archangelica.
Angelica Pilula. Anderson's Scots pill.

ANGELICA SATIVA. See Angelica sylvestris. Angelica sativa. ANGELICA SYLVESTRIS. angelica. Angelica-folis equalibus ovato-lanceo-latis serratis, of Linneus. This species of angelica possesses similar properties to the garden species, but in a much inferior degree. It is only used when the latter cannot be obtained. The seeds, powdered and

latter cannot be comment. The seeds, porterts and put in the hair, kill lice.

Angelica, wild. See Angelica sylvestris.

ANGELICUS. (From angelus, an angel.) Some plants, &c. are so called, from their supposed superior virtues.

ANGELICUS PULVIS. Submuriate of mercury ANGELI'NA. Angelina zanoni acosta.

vast size, sometimes above sixteen feet thick, growing In rocky and sandy places in Malahar in the Bast Indies. It bears ripe fruit in December. The dried leaves heated are said to alleviate pain and stiffness of the joints, and dismiss swelling of the testes caused by external violence; and are also said to be useful in the cure of venereal complaints.

ANGELINE CORTEX. The name of the tree from which the Cartex, Ingeline is procured. It is a native of Grenada. This bark has been recommended as an anthelmintic for children.

ANGELOCA'COS. The purging Indian plum. See Myrobalanus.

A'NGI. (From angor, anguish; because of their pain.)

A Not. (From angor, angusus; because of the iplants)
Buboes in the groin. - Fallopius de Morbo Gallico.

ANGIGLO SSUS. (From αγκυλη, a hook, and
γλωσσα, the tongue.) A person who stammers.

ANGI'NA. (Angina, σ. f.; from αγχω, to strangle;
because it is often attended with a sense of strangulation.) A sore them: Soc Omega Soc.

lation.) A sore throat. See Cynanche.

Angina lini. A name used by some of the later Greeks writers to express what the more ancient writers of this nation called linozostres, and the Latins epilenum: which is the cuscuta or dodder, growing on the linum or flax, as that on the thyme was called epithymum. See Cuscuta.

Angina Maligna. Malignant or putrid sore throat. See Cynanche muligna.

Angina Parotidea. The mumps. See Cynanche parotidea.

ANGINA PECTORIS. Syncope, ang nosa of Dr. Parry. An acute constrictory pain at the lower end of the sternum, inclining rather to the left side, and extending up into the left arm, accompanied with great anxiety Violent palpitations of the heart, laborious breathings, and a sense of suffocation, are the characteristic symptoms of this disease. It is found to attack men much more frequently than women, particularly those who have short necks, who are inclinable to corpulency, and who, at the same time, lead an inactive and seden-Although it is sometimes met with in persons under the age of twenty, still it more frequently occurs in those who are between forty and fifty. In slight cases, and in the first stage of the disorder, the fit comes on by going up hill, up stairs, or by walking at a quick pace after a hearty meal; but as the disease advances, or becomes more violent, the paroxysms are apt to be excited by certain passions of the mind; by slow walking, by riding on horseback, or in a carriage; or by sneezing, coughing, speaking, or straining at stool. In some cases, they attack the patient from two to four in the morning, or whilst sitting or standing, without any previous exertion or obvious cause. On a sudden, he is seized with an acute pain in the breast, or rather at the extremity of the sternum, inclining to the left side, and extending up into the arm, as far as the insertion of the deltoid muscle, accompanied by a sense of suffocation, great anxiety, and an idea that its continuance or increase, would certainly be fatal. In the first stage of the disease, the uneasy sensation at the end of the sternum, with the other unpleasant symptoms, which seemed to threaten a suspension of life by a perseverance in exertion, usually go off upon the person's standing still, or turning from the wind; but, in a more advanced stage, they do not so readily recede, and the paroxysms are much more violent. During the fit, the pulse sinks, in a greater or less degree, and becomes irregular; the face and extremities are pale, and bathed in a cold sweat, and, for a while, the patient is perhaps deprived of the powers of sense and volcatary motion. The disease having recurred more or less frequently during the space of some years, a violent attack at last puts a sudden period to his existence. Angina pectoris attended with a considerable degree of danger; and it usually happens that the person is carried off suddenly. It mostly depends upon an ossification of the coronary arteries, and then we can never expect to effect a radical cure. During the paroxysms, considerable relief is to be obtained from fomentations, and administering powerful antispasmodics, such as opium and ather combined together. The application of a blister to the breast is likewise attended sometimes with a good effect. As the painful sensation at the extremity of the sternum often admits of a temporary relief, from an evacuation of wind by the mouth, it may be proper to give frequent doses of carminatives, such as peppermint, carraway, or cinnamon water. Where these fail in the desired effect, a few drops of ol. anisi, on a little sugar, may be substituted.

With the view of preventing the recurrence of the disorder, the patient should carefully guard against passion, or other emotions of the mind: he should use a light, generous diet, avoiding every thing of a heat-ing nature; and he should take care never to overload the stomach, or to use any kind of exercise immediately after eating. Besides these precautions, he should endeavour to counteract obesity, which has been considered as a predisposing cause; and this is to be effected most safely by a vegetable diet, moderate exercise at proper times, early rising, and keeping the body perfectly open. It has been observed that angina pectoris is a disease always attended with considerable danger, and, in most instances, has proved fatal under every mode of treatment. We are given, how-ever, to understand, by Dr. Macbride, that of late, several cases of it have been treated with great success, and the disease radically removed, by inserting a large issue on each thigh. These, therefore, should never be neglected. In one case, with a view of correcting, or draining off the irritating fluid, he ordered, instead of issues, a mixture of lime water with a little of the spirituous juniperi comp., and an alterative pro-portion of Huxham's antimonial wine, together with a plain, light, perspirable diet. From this course the patient was soon apparently mended; but it was not dica, and pharmacy, it was frequently employed to until after the insertion of a large issue in each thigh, denote its great efficacy: hence anima, hepates, aloss,

that he was restored to perfect health.

Angini Tonshllaris. See Cynanche tonsillaris.

Angini Tonshllaris. See Cynanche trachedis.

Angini Tonshllaris. See Cynanche trachedis.

Angini Carlellis. See Cynanche trachedis.

Angini Carlellis. See Cynanche trachedis. They are either hard or membranous, tough and leathery

ANGIOLO'GY.

NGIOLO'GY. (Angiologia; from ayyetov, a vessel, and  $\lambda oyo_5$ , a discourse.) The doctrine of the vessels of the human body. ANGIOSPERMIA. (From ayyos, a vessel, and ontopa, a seed.) The name of an order of plants in the class Didynamia of the sexual system of Linnæus, the seeds of which are lodged in a pericarpium or seed-vessel.

ANGIOSPERMÆ HERBÆ. Those plants, the seeds of

ANGUSTERME HERE. I nose plants, the seeds of which are enclosed in a covering or vessel.

A'NGLICUS. (From \*Anglia\*, England.) The sweating sickness, which was so endemic and fatal in England, was called Sudor Anglicanus. See Sudor Anglicus.
Ango'Lam. A very tall tree of Malabar, possessing

vermifuge powers.

Ango'ne. (From  $a\gamma\chi\omega$ , to strangle.) A nervous sort of quinsy, or hysteric suffocation, where the fauces are contracted and stopped up without inflammation

A'NGOR. (Angor, oris. m.: from Ango.) Agony or intense bodily pain.—Galen.

A'NGOS. (Αγγος, a vessel.) A vessel. A collection of humours.

ANGULATUS. Angled.—A term used to design

nate stem, leaves, petioles, &c. which present several acute angles in their circumference. There are several varieties of angular stems

1. Triangulatus, three-angled; as in Cactus trian-

Quadrangulatus, four-angled; as in Cactus

Quinqueangulatus, five-angled; as in Cactus pentagonus

4. Hexangulatus, six-angled; as in Cactus hexagonus

5. Multiangulatus, many-angled; as in Cactus

6. Obtusangularis, obtuse-angled; as in Scrofula-

ria nodosa.
7. Acutangulatus, acute-angled; as in Scrofularia aquatica.

8. Caulis triqueter, three-sided, but with flat sides; as in Hedysarum triquetrum, Viola mirabilis, Carex

9. Caulis tetaquetrus, quadrangular with flat sides; as in Hypericum quadrangulare, Mentha officinalis.
For angular leaves, See Leaf, Petrole, &c.
ANGULOSUS. Angular.
ANGURE CORTEX. A bark imported from Angularia.

ANHELA TION. (Anhelatio; from anhelo, to breathe with difficulty.) Anhelitus. Shortness of

ANHYDRITE. Anhydrous gypsum. There are six varieties of this mineral su bate of lime. 1. The compact.—2. The granular. 3. The fibrous. 4. The radiated. 5. The sparry or cube spar. 6. The siliciferous or vulpinite.

ANHYDROS. A name given by the ancient Greeks, to express one of those kinds of Strychina or night-shades, which, when taken internally, caused madness. ANHYDROUS. (From a, neg. and υδωρ, water.

Without water.

Without water.

ANNETON. (From a, priv. and vixy, victory.) A name of a plaster invented by Crito, and so called hecause it was thought an infallible or invincible remedy for achores, or scald-head. It was composed of titharge, alum, and turpentine, and is described by Galen.

ANIMA. A soul: whether rational, sensitive, or vegetative. The word is pure Latin, formed of avenote the principle of life in the body, in which sense.

mote the principle of life in the body, in which sense Willis calls the blood anima brutalis. By chemists it was used figuratively for the volatile principle in bodies, whereby they were capable of being raised by the fire; and by the old writers on botany, materia merhabarbari, &cc

ANIMA ALOES. Refined aloes.

ANIMA ARTICULORUM. A name of the Hermodac-See Hermodactylus

Anima hepatis. Sal martis.

Anima pulmonum. The soul of the lungs. Aname

ANIMA PULMONOM. The soul of the lungs. A name given to salfron, on account of its use in asthmas. Anima Rhabarbari. The best rhubarb. Anima saturm. A preparation of lead. Anima veneurs. A preparation of copper. ANIMAL. An organized body endowed with life and voluntary motion. The elements which enter into the composition of the bodies of animals are solid.

liquid, gaseous, and inconfinable.

Solid Elements. Phosphorus, sulphur, carbon, iron, manganese, potassium, lime, soda, magnesia, silica,

Liquid Elements. Muriatic acid; water, which in this case may be considered as an element, enters into the organization, and constitutes three-fourths of the bodies of animals.

Gaseous Elements. Oxygen, hydrogen, azote. Inconfinable Elements. Caloric, light, electric, and

magnetic fluids.

These diverse elements, united with each other, three and three, four and four, &c. according to laws still unexplained, form what we name the proximate principles of animals

Proximate Materials, or Principles. These are divided into azotized, and non-azotized.

The azotized principles are: albumen, fibrin, gela tin, mucus, cheese-curd principle, urea, uric acid, osmazome, colouring matter of the blood.

The non-azotized principles are: the acetic, benzoic, lactic, formic, oxalic, rosacic, acids; sugar of milk, stagar of diabetic urine, picromel, yellow colouring matter of bite, and of other liquids or solids which become yellow accidentally, the blistering principle of cantharides, spermacetl, biliary calculus, the odorfferous principles of ambergris, musk, castor, civet, &cc. which are scarcely known, except for their faculty of acting on the organ of smell.

Animal fats are not immediate, simple, proximate principles. It is proved that human fat, that of the principles. It is proved that number left, that of the pig, of the sheep, &c. are principally formed by two fatty bodies, stearm, and dawn, which present very different characters that may be easily separated.

Neither is the butter of the cow a simple body; it contains acetic acid, a yellow colouring principle, an oldcows rejuctive which is near treatment.

odorous principle, which is very manifest in ferment-

We must not reckon among these substances, adipocire, a matter which is seen in bodies long buried in the earth; it is composed of margarine, of a fluid acid fat, of an orange colouring principle, and of a peculiar odorous substance. Nor must this substance be confounded with spermaceti, and the biliary calculus, which are themselves very different from each other. It does not contain a single principle analogous to

Organic Flements. The materials or principles above mentioned combine among themselves, and from their combination arise the organic elements, which are solid or liquid. The laws or forces that go-

vern these combinations are entirely unknown.

Organic Solids. The solids have sometimes the form of canals, sometimes that of large or small plates, at other times they assume that of membranes. In man the total weight of solids is generally eight or nine times less than that of liquids. This proportion is nevertheless variable according to many circum-

stances.

The ancients believed that all the organic solids might be reduced by ultimate analysis to simple fibres, which they supposed were formed of earth, oil, and iron. Haller, who admitted this idea of the ancients, owns that this fibre is visible only to the eye of the mind. Investibilis est on fibra sola; ments acie dis-tanguinus. This is just the same as if he had said that it does not exist at all, which nobody at present doubts.

The ancients also admitted secondary fibres, which they supposed to be formed by particular modificacular, parenchymatous, osseous fibre.

Chaussier has lately proposed to admit four sorts of | hearth of the furnace, or in any other situation where fibres, which he calls luminary, nerval, muscular, and

albuginous.

Science was nearly in this state when Pinel con-Science was needed in the state when rine con-ceived the idea of distinguishing the organic solids, not by fibres, but by tissues or systems. Bichât applied it to all the solid parts of the bodies of animals: the classification of Bichât has been perfected by Dupuytren and Richerand.

## Classification of the Tissues.

1. Cellular.... Arterial. 2. Vascular Lymphatic. Cerebral. 3. Nervous Ganglaic. 4. Osseous . Fibrous. 5. Fibrous Fibro-cartilaginous Dermoid. Voluntary. Voluntary. 6. Muscular Erectile ..... Mucous 9. Serons
10. Horny or | Hairy.
Epidemic | Epidermoid. Parenchymatous, Glandular.
These systems, associated with each other and with

the fluids, compose the organs or instruments of life.

When many organs tend by their action toward a common end, we name them, collectively considered, an apparatus. The number of apparatus, and their disposition, constitute the differences of animals.-

Magendie.

Animal actions. Actiones animales. Those actions, or functions, are so termed, which are performed through the means of the mind. To this class belong the external and internal senses, the voluntary action of muscles, voice, speech, watching, and sleep.

Animal Heat. See Heat, animal.

Animal Economy, See Economy, animal.
Animal Oil. Oleum animale. Oleum animale Dippolii. An empyreumatic oil, obtained from the bones of animals, recommended as an anodyne and antispasmodic.

A'NIME GUMMI. The substance which bears this name in the shops is a resin. See Hymenæa courbaril.

Name in the shops is a resin. See Figurelaa couronti.

A'MINI DELIQUIUM. (From animus, the mind, and delinguo, to leave.) Fainting. See Syncope.

A'MINUS. This word is to be distinguished from anima; which generally expresses the faculty of reasoning, and animus, the being in which that faculty

Anin'GA. A root which grows in the Antilles islands, and is used by sugar-bakers for refining their

sugai

ANISCA'LPTOR. (From anus, the breech, and scalpo, to scratch.) The latissimus dorsi is so called, because it is the muscle chiefly instrumental in performing this office.—Bartholin.

The order of the control of the con

Pimpinella anisum.

Anisum sinense. See Illicium anisatum.

Anisum Stellatum. See Illicium.

Anisum Vulgare. See Pimpinella anisum.

ANNEAL. We know too little of the arrangement ANNEAL. of particles to determine what it is that constitutes or produces brittleness in any substance. In a considerable number of instances of bodies which are capable range dumber of instances of bounds which are dapable of undergoing ignition, it is found that sudden cooling renders them hard and brittle. This is a real inconvenience in glass, and also in steel, when this metalic substance is required to be soft and flexible. The inconveniences are avoided by cooling them very gradually, and this process is called annealing. Glass vessels. or other articles, are carried into an oven or apartment near the great furnace, called the leer, where they are permitted to cool, in a greater or less time, according to their thickness and bulk. The annealing of steel, or other metallic bodies, consists simply in heating them and suffering them to cool again, either upon the

the heat is moderate, or at least the temperature is not

See Bixa orleana.

Annoto. See Bita oreana.

ANNUAL. (Annuus, yearly.) A term applied in botany to plants and roots, which are produced from the seed, grow to their full extent, and die in one year or season, as Papaver somniforum, Helianthus annuus;

Hordeum riticum, &c.
Annur'nTES. (From annuo, to nod.) Some muscles of the head were formerly so called, because they perform the office of nodding, or bending the head

downwards.—Covper, &c.

ANNULAR. (Annularis; from Annulus, a ring, because it is ring-like, or the ring is worn on it, or it surrounds any thing like a ring; thus, annular bone, &c. Annular bone. Circulus osseus. A ring-like bone, placed before the cavity of the tympanum in the fœtus.

Annular cartilage. See Trackwa.

ANNULA'RIS. Annularis digitus. The ring-finger. The one between the little and middle fingers.

ANNULUS. (Annulus, i. m., a ring.) A ring. In botany applied to the slender membrane surrounding the stem of the fungi.

ANNULUS ABDOMINIS. The abdominal ring. oblong separation of tendinous fibres, called an opening, in each groin, through which the spermatic chord ing, in each groin, through which the spermatic chord in men, and the round ligament of the uterus in women, pass. It is through this part that the abdominal viscera fall in that species of hernia, which is called bubonoccle. See Obliquus externus abdominis.

A'NO. (Ανω, upwards; in opposition to κατω, downwards.) Upwards.

ΑΝΟCΑΤΗΑ'RTIC. (From ανω, upwards, and καθαιρω, to purge.) Emetic, or that which purges upwards

wards.

ANOCHETLON. (From ανω, upwards, and χειλος, the lip.) The upper lip.

Ano'DIA. (From α, neg. and οδος, the way.) Hippocrates uses this word for inaccuracy and irregularity

in the description and treatment of a disease.

ANO'DYNA. See Anodyne.

ANODYNE. (Anodynus; from a, priv. and ωδυνη, ANODYNE. (Anodynus; rrom a, priv. and ωσυνη, pain.) Those medicines are termed Anodynes, which ease pain and procure sleep. They are divided into three sorts; paregories, or such as assuage pain; hypnotics, or such as relieve by procuring sleep; and narcotics, or such as ease the patient by stupifying him.

ANO DYNUM MARTIALE. Ferrum ammoniatum pre-

cipitated from water by potassa.

ANO YNNUM MINERALE. Sal prunella.

ANOMALOUS. (From a. priv. and vouos, a law.)
This term is often applied to those diseases, the symptons of which do not appear with that regularity which is generally observed in diseases. A disease is also said to be anomalous, when the symptoms are so varied as not to bring it under the description of any

RNOWN affection.

ANO MPHIALOS. (From a, priv. and ομφαλος, the navel.) Anomphialus. Without a navel.

ANO NYMUS. (Αποπημια, from a, priv. and ονομα, name.) Nameless; some eminences of the brain are called columns anonyms: and it was formerly applied to one of the cricoid muscles.

ANO POLITIES (From a priv. and access the NACLOCHIMES)

applied to one of the cricola muscles.

ANO'RCHIDES. (From a, priv. and opxis, the testicle.) Children are so termed which come into the world without testicles. This is a very common occurrence. The testicles of many male infants at the time of birth are within the abdomen. The time of their descent is very uncertain, and instances have occurred where they have not reached the scrotum at

ANORE XIA. (Anorexia, a, f.; from a, priv. and openies, appetite.) A want of appetite, without loathing of food. Cullen ranks this genus of disease in the class Locales, and order Dusaresia. He believes it to be generally symptomatic, but enumerates two species, viz. the Anorexia humoralis, and the Anorexia atonica.

See Inspensia.

ANO'SMIA. (Anosmia, α, f.; from a, neg. and οζω, to smell.) A loss of the sense of smelling. This genus of disease is arranged by Cullen in the order Locales, and order Dysæsthæsiæ. When it arises from a disease of the Schneiderian membrane, it is termed Anosmea organica; and when from no manifest cause Anosmia atonica.

A'NSER. (Anser, eris. m.; a goose or gander.)
The name of a genus of birds.

Anser dome sticus. The tame goose. The flesh of this bird is somewhat similar to that of the duck, and requires the assistance of spirituous and stimu-lating substances, to enable the stomach to digest it.

Both are very improper for weak stomachs.

ANSERI'NA. (From enser, a goose; so called because geese eat it.) See Potentilla anserina.

alise geose carth.) See Foreica ANT. See Formica ANT. See Formica did.

Int. acid of. See Formica acid.

ANTACID. (Intractius; from av]t, against, and cidus, acid.) That which destroys acidity. The acacidus, acid.) detaus, acid.) Frat which destroys acidity. The ac-tion of antacids in the human stomach, is purely che-mical, as they merely combine with the acid present, and neutralize it. They are only palliatives, the generation of acidity being to be prevented by restoring the tone of the stomach and its vessels. Dyspepsia and diarrhæa are the diseases in which they are employed. The principal antacids in use are the alkalies; e. g., Liquoris potassæ, gutt. xv. or from 5 to 15 gr. of subcarbonate of potassa, or soda dissolved in water. The solution of soda called double soda-water, or that of potassa supersaturated with carbonic acid, is more frequently used, as being more pleasant. Ammonia has been recommended as preferable to every other antacad, from 10 to 20 drops of the liquor anmoniae in a cupful of water. The liquor calcis, or lime water, is likewise used to correct acidity, two or three ounces being taken occasionalty. Creta præparata alone, or with the addition of a small quantity of any aromatic—chelæ cancropum preparate; magnesia also and its diarrhoa are the diseases in which they are employed.

carbonate, are used for the same purpose.

ANTAGONIST. (Antagonistus, counteracting.) A term applied to those muscles which have opposite functions. Such are the flexor and extensor of any limb, the one of which contracts it, the other stretches it out; and also the abductors and adductors. Solitary muscles are those without any antagonist, as the

-chelæ cancrorum præparatæ; magnesia also and its

heart, &c. ANTA'LGIC. (Antalgicus; from av71, against, That which relieves pain.

and alyos, pain.) The ANTA'LKALINE. ANTA LINE. (Antalkalinus; from av71, against, and alkali, an alcali.) That which possesses the power of neutralizing alkalies. All the acids are

the power of nearly of this class.

ANTAPHRODISI'AC. Antaphrodisiacus; from aν/l, against, and Αφροδί/η, Venus. Antivenereal, or whatever extinguishes amorous desires.

ANTAPHRODI'TIC. The same.

ANTAPO'DOSIS. (From aν/λαποδίδωμι, to recipro-

ANTAPO DOSIS. (From av landoctool), to reciprocate.) A viciositude, or return of the paroxysm of fevers.—Hippocrates. Called by Galen eigidosis.

ANTARTHRI'TIC. See Antiarthritic.

ANTATRO FIIIC. See Antiarthritic.

ANTATRO FIIIC. See Antiarthritic.

ANTATRO FIIIC. See Initiatrophic.

ANTECHE 'SIS. (From av ] Expount, to resist.) A violent stoppage in the bowels, which resists all efforts to remove it.—Hippocrates.

onen. stoppage in the bowels, which resists all chorts to remove it.—Hippocrates.

Antela sium. (From ante, before, and labium, a lip.) The extremity of the lip.

Ante Mbasis. (From ant, mutually, and subarvo, to enter.) A coalescence, or union of bone.—Galen.

Anteme Tic. See Intiemetic.

ANTENEA'SMUS. (From αντι, against, and τεινεσμ implacable.) That species of madness in which the patient endeavours to destroy himself.

ANTEPHIA'LTIC. See Antiphialtic. ANTEPILE'PTIC. See Antiepileptic.

ANTEFILE FILE. See Intepleptic.
ANTEFILE FILE. See Intepleptic.
ANTEFILE and the same kind, as a muscle, a projection, eminence, lobe, artery, &c.

ANTERIOR AURIS. Musculus anterior auris. One of the common muscles of the ear, situated before the external ear. It arises thin and membranous, near the posterior part of the zygoma, and is inserted into a small enrinence on the back of the helix, opposite to the concha, which it draws a little forwards and upwards.

Anterior intercostal. Nervus intercostalis an-

ANTERIOR INTERCOSTAL. Neirous intercostalis anteriors. Splanchine nerve: A branch of the great intercostal that is given off in the thorax.

ANTHETIAN ALLEI. See Laxator tympani.

ANTHETIAN. (From arrt, against, and ελμινς, a worm; so called, because it was thought of great virtue in expelling worms.) See Spigelia anthetma, and Marilandea. Marilandica.

ANTHELMINTIC. (Anthelminticus; from avri, against, and chave, a worm.) Whatever procures the evacuation of worms from the stomach and intestines. The greater number of anthelmintics act mechanically, distoleging the worms, by the sharpness or roughness of their particles, or by their cathartic operation. Some seem to have no other qualities than those of powerful bitters by which they either prove noxious to powerful nitters by which they while prove these animals, or remove that debility of the digestive organs, by which the food is not properly assimilated, or the secreted fluids poured into the intestines are not properly prepared; circumstances from which it has been supposed the generation of worms may arise. The principal medicines belonging to this class, are, mercury, gamboge, Geoffræa inermis, tanacetum, polypodium filix mas, spigelia marilandica, artemisia santonica, olea Europæa, stannum pulverisatum, ferri limature, and dolichos pruriens; which see under their respective heads.

A'NTHEMIS. (Anthemis, midis. fem.; from avθεω, flore o; because it bears an abundance of flowers.)

1. The name of a genus of plants in the Linnæan system. Class, Syngenesia; Order, Polygamia su-

perfluu.

2. The name in the London Pharmacopæia for cha-

momile. See Anthemis nobilis.

ANTHEMIS COTULA. The systematic name of the ANTHEMIS COTULA. The systematic name of the plant called Cotula factida: Chamaentum fatidum, in the pharmacopesias. Mayweed. Stinking chamomile. This plant, Anthemis:—receptacutic conicis paleis setaucis, seminishus nudis, of Linneus, has a very disagrecable smell; the leaves, a strong, acrid, bitterish taste; the flowers, however, are almost insipid. It is said to have been useful in hysterical affec-

tons, but is very seldom employed.

ANTHEMIS NOBILIS. The systematic name for the Chamamelum r. Chamamelum nobile; Chamamilla romana; Euanthemon of Galen. Anthemis of the last London pharmacopæia. Common chamomile. Anthemis mis-foliis prinato-compositis linearibus acutis sub-villasis, of Linnaus. Both the leaves and flowers of this indigenous plant have a strong though not ungrateful smell, and a very bitter, nauseous taste; but the latter are the bitterer, and considerably more aromatic. They possess tonic and stomachic qualities, and are much employed to restore tone to the stomach and are much employed to resorte tone to the stomach and intestines, and as a pleasant and cheap bitter. They have been long successfully used for the cure of intermittents, as well as of levers of the irregular nervous kind, accompanied with visceral obstructions. The flowers have been found useful in hysterical af-

The flowers have been found useful in hysterical affections, flatulent or spasmodic colies, and dysentery; but, from their laxative quality, Dr. Oullen tells us they proved hurtful in diarrheass. A simple infusion is frequently takent of excite vointing, or for promoting the operation of emetics. Externally they are used in the decoctum pro fomento, and are an ingredient in the decoctum malos compositum.

Anythemis pyrethrum of the pharmacopæias; Asternatium; Buphthalmum creticum; Bellis montana putescens acris; Dentaria; Herba salivaris; Pes Alexandrinus. Spanish Chamomile; pellitory of Spain. Anthemis:—caultinus simplicitus unifleris decumbentibus—fotics pinnato-multiplies, of Linnæus. This root, though cultivated in this country, is genedecumbentibus—folits promote mutifidas, of Linneus. This root, though cultivated in this country, is generally imported from Spain. Its taste is not and acrid, its acrimony residing in a resinous principle. The ancient Romans, it is said, employed the root of this plant as a pickle. In its recent state, it is not so pungent as when dried, and yet, if applied to the skin, it produces inflammation. Its qualities are stimulant; but it is never used, except as a masticatory, for relieving to that the strength of the face.

but it is never used, except as a masticatory, for relieving toothaches, rheumatic affections of the face,
and paralysis of the tongue, in which it affords relief
by stimulating the excretory duets of the salival glands.

ANTHERA. (From alboy, a flower.)

1. A compound medicine used by the ancients; so
called from its florid colour.—Galen.—Egineta.

2. The male part of the fructification of plants:—so
called by Linneus, by way of eminence. The male
genital organ of plants consists of three parts, the filament, anther, and pollen. The authera is the little
head or extremity which rests on the filament.
Different terms are applied to the anthers from their

Different terms are applied to the anthers from their

1. Oblong ; as in Lilium candidum.

2. Globose: as in Mercurialis annua.

3. Semilunar; as in Fragaria vesca. 4. Angular; as in Tulipa gesneriana.

Linear; as in the grasses and Protea. Dulymous; as in Digitalis purpurea. dreamesh and as in (rocus sulums.

8 Bind, parted half way down in two; as in the grasses and Erica.

9. Shield-like, or peltate, of a round shape; as in Torus baccata. Dentate, with a tooth-like margin; as in Taxus

baccata

11. Hairy; as in Lamium album.
12. Broom, with two divisions like horns; as in Arbutus uva ursi and Vaccinium myrtillus.

13. Oristate, having cartilaginous points.
14. Crucial; as in Mellitis.

15. Double or twin-like; as in Callisia and Hura.

16. Rostrate; as in Osbeckia.

17. Subulate, or awl-shaped; as in the genus Ro-

18. Cordate; as in Cupraria. 19. Reniform, kidney-shaped; as in Tradescantia d Ginora.

20. Trigonal, or three-cornered; as in the Rose.
21. Tetragonal, or four-cornered, as in Cannabis and Dictamnus.

From their situation:

Prom their situation:

22. Erect, with its base upon the apex of the filament; as in Tulipa gesneriana.

23. Incumbent, lying horizontally upon the filament, as in Inaryllis formossima.

24. Versatile, when the incumbent auther adheres

so loosely to the filament, that the least agitation of

the plant puts it in motion; as in Secale cereale.

25. Lateral, adhering laterally to the filament; as m Dianthera.

26. Sessile, the filament almost wanting; as in Aristolochia clematitis.

27. Free, not united to any other anther

28. Comate, united together; as in Viola odorata.
ANTHODIUM. A species of calyx, which contains many flowers being common to them all.

1. Monophyllous, consisting of one leaflet perfect at its base, but cut at its limb or margin; as in Trage-

Polyphyllous, consisting of several leaflets; as in Carduus and Centaurea. 3. Simple, consisting of one series of leaflets; as in

Cacalia porophyllum.

4. Equal, when all the leaves of the Anthodium

simplex are of the same length, as in Ethules.
5. Imbrecate or squamose, as in Centaurea cyanus 6. Squarrose, the leastets bent backward at their

extremities. 7. Scabrous, rough, consisting of dry leaflets; as in

1. Scabrous, rough, consisting of ary leaflets; as in Centaurea glastifolia and jacca.
2. Symous, the leaflets having thorns; as in Cynau scolymus and Centaurea samehifolia.
3. Turbinate; as in Toreomauthus camphoratus.
10. Globose; as in Centaurea calcitrapa.
11. Hemispherical, round below and flat above; as in Anthemis and Chrysocoma. 12. Cylindrical, long and round; as with Eupato-

13. Calcyculate, the basis surrounded by another

small leafy anthodium; as in Leontodon taraxacum,
Senecie, and Crepis.

ANTHOPHYLLITE. A massive mineral, of a

brown colour, found at Konigsberg, in Norway.

[This substance has been observed only in amorphous masses, whose longitudinal fracture is foliated, or radiated, and whose cross fracture is uneven. lustre of the most perfect lamina is somewhat metallic. lustre of the most perfect lamina is somewhat metallic. Its antaural joints, of which two are nuch more perfect than the others, are parallel to the faces of a rectangular four-sided prism. It is rather difficult to break, and strongly scratches fluate of lime, but produces little or no effect on glass. It is feebly translucent at the edges, and its colour is brown, tinged with violet. Its powder is whitish, and rough to the touch. Its powder is whitish, and rough to the touch. Its pecific gravity varies from 3.11, to 3.29. Before the blow-pipe it is infusible. It contains sites 62.66, alternative for the product of the product blow-pipe it is infusible. It contains silex 02.96, alumine 13.33, magnesia 4.0, lime 3.33, oxide of iron 12.00, manganese 3.25, water 1.43. It is softer, lighter, and has less lustre, than Labrador stone. - Cleav. Men. A.]

ANTHOPHY LLUS. (From aνθος, a flower, and φυλλον, a leat; so called from the fragance of the dowers and the beauty of the leaves.) The clove is so termed when it has been suffered to grow to matu-

(From aνθος, a flower, and ANTHOPHY'LLUS.

φιλεω, to love.) A Horist.
A'NTHORA. (Quasi o (Quasi antithora. A vriBooa : from arri, against, and Jopa, menkshood : because it is said to counteract the effects of the thorn or monkshood.) A species of Wolfsbane. See Aco-

A'NTHOS FLORES. The flowers of the resmarinus are so termed in some pharmacopreias. See Rosmarinus officinalis

ANTHRA'CIA. 1. The name of a genus of diseases

in Good's Nosology. See Nosology.

2. A name of the carbuncle. See Anthrax.

ANTIRACITE. Blind coal, Kilkenny coal, or glance coal. There are three varieties, conchoidal, slaty, and columnar.

staty, and comman.

[When poliverized and heated, it becomes red, and slowly consumes with a very light lambent flame, without smoke, and when pure emits no sulphureous or bituminous odour; it leaves a variable proportion of reddish ashes. Slaty glance coal consists of car-bon, with from 3 to 30 per cent of earth and iron. This mineral occurs in imbedded masses, beds, or veius, in primitive, transition, and floetz rocks. It is found in gneiss, in micaceous shistus, in mineral veins, with calcareous spar, native silver, mineral pitch, and red iron ore; and has been discovered by Jameson in the independent coal formation in the Isle of Arran. Phillips's Min.

The coal of Rhode-Island is mingled with quartz, and occasionally with fibrous asbestos; yet it has but little hydrogen, and less bitumen. It is overlaid by coarse shale, containing numerous and strong impres-

sions of ferns.

In Pennsylvania there are two great coal formations: one situated S. E. of the mountains, and the other N. The former is the Anthracite or glance coal, extending almost from Delaware along the head waters of the Lehigh and Schuylkill, and to Wilkesbarre on the Sasquehannah, and along the Juniata .- Metchill's

This formation of Anthracite has been traced for ninety or a hundred miles in the state of Pennsylvania, and mines have been opened in many places on the branches of the Susquehannah, Schuylkill, and Delaware rivers, and some of them bordering on the states of New-Jersey and New-York. In many places it is near the surface, and appears to be inexhaustible. It is now extensively used as fuel, and its consumption is increasing. A.]

ANTHRACO'SIS OCULI. A red, livid, burning, sloughy, very painful tumour, occurring on the eyelids .- Ægi-

neta.

ANTHRAX. (Inthrax, acis. m.; from avboat, a burning coal.) Inthracia; Inthrocosia; Anthrocosia; Codicana; Carbunculus; Carbo; Rubinus versus; Codicalia; Granatristam; Pruna, Persicus ignus of Avicenna. A hard and etrumscribed inflammatory tubacte like a boil, which sometimes forms on the cheek, neck. or back, and in a few days becomes highly gangenous. It then discharges an extremely factid sanies from under the black core, which, like a burning coal, continues destroying the surrounding. burning coal, continues destroying the surrounding parts. It is supposed to arise from a peculiar miasma, is most common in warm climates, and often attends

his place.

ANTHROPOGRA'PHY. (Anthropographia; from an θ στος, a man, and γραφω, to write.) Description of the structure of man.

ANTHROPOLO'GY. (Anthopologia; from a NTHROPOLO'GY. (Anthopologia; from a new first structure of man.

αιθοωπος, a man, and λογος, a discourse.) scription of man.

ANTHYPNOTIC. (Anthypnoticus; from aν7ι, rainst, and υπνος, sleep.) That which prevents against, and unvos, sleep.) sleep or drowsiness.

ANTHYPOCHONDRI'AC. (Anthypochondriacus; from ar/1, against, and ὑποχονδοια, the hypochondria.)
That which is adapted to cure low-spiritedness or dis-

orders of the hypochondria.

ANTHYSTERIC. (Anthystericus; from av71, against, and 1560a, the womb.) That which relieves the hysteric passion

A'NTI. (Aν7i, against.) There are many names compounded with this word, as Antusthmatic; Anti-Augmentates, Anti-Augment

av7ι, against, and αρθρι7ις, the gout.) Antiarthritic

av)t, against, and apoptits, the gour.)
ANTIASTHMATIC. (Antiasthmaticus); from av)t, against, and aσθμα, an asthma.) Antasthmatic.

ANTIATROPHIC. (Antiatrophicus; from av71,

ANTIATROPHIC. (Antiatrophicus; from aγ1, against, and α1ροφια, an atrophy.) Against an atrophy or wasting away.

ANTICACHE'CTIC. (Anticachecticus; from aγ1, against, and καχεξια, a cachexy.) Medicines against a cachexy, or bad habit of body.

ANTICACRDIUM. (From αγ1, against, or opposite, and καρδια, the heart.) The hollow at the bottom of the breast, commonly called scrobiculus cordis, or the mit of the stomach. pit of the stomach

ANTICATARRHA'L. (Anticatarrhalis ; That which αι 7ι, against, and κα 7αρρος, a catarrh.)

ves a catarrh.

ANTICAUSO'TIC. (From av71, against, Kavoos, a burning fever.) a burning fever.) Remedies against burning We read, in Corp. Pharm. of Junken, of a syrupus anticausoticus.

eyrupus anticausotteus.

A'NTICHEIR. (From aν7ι, against, and χειρ, the hand.) The thumb.—Galen.

ANTICNE'MION. (From aντι, against, or opposite, and κνημη, the call of the leg.) That part of the title which is bare of flesh, and opposite the call of the leg.

which is bare of nesh, and opposite the call of the leg. The shin-bone.—Galen.

ANTICOLIC. (From αντι, against, and κωλικη, the colic.) Remedies against the colic.

ANTIDIA'STOLE. (From αντι, against, and διαγελλω, to distinguish.) An exact and accurate distinction of

one disease, or symptom, from another.

ANTIDI'NIC. (From ayrı, against, and ōıvoş, circumgyration.) Medicines against a vertigo, or giddiness.—Blanchard.

ANTIDOTARIUM. (Antidotarium, i. n.; from auridoros, an antidote.) A term used by former writers for what we now call a dispensatory; a place where antidotes are prescribed and prepared. There are antidotaries extant of several authors, as those of Nicholaus, Mesuc, Myrepsus, &c.
ANTI DOTUS. From avri, against, and διδωμι, to give.) 1. An antidote.

2. A preservative against sickness.

A preservative against sickness.
 A remedy.—Galen.
 ANTIDYSENTE RIC. (Antidysentericus; from avrt, against, and δυσεντερια, a flux.) Medicines against a dysentery.
 ANTIEMETIC. (Antiemeticus; from avrt, against, and εμεω, to vomit.) Antemetic. That which presents are recommended.

ents or stops vomiting.
ANTIEPHIALTIC. (Anticphialti us ; from avri, against, and εφιαλτης, the nightmare.) Antephialtic. Against the nightmare.
ANTIEPILEPTIC.

(Antiepilepticus; from avri, against, and επιληψις, the epilepsy.) Antepileptic.

Against epilepsy.

ANTHEBRI'LE. (Antifebrilis; from avri, against, and febris, a fever.) A febrifuge, a remedy against

ANTIHE CTIC. (Antihecticus; from avri, against, and έκτικος, a hectic fever.) A remedy against a hec-

ANTHE CTICUM FOTERII. Antimonium diaphore-ticum Joviale. A medicine invented by Poterius, formerly extolled as effectual in hectic fevers, but now disregarded. It is an oxyde of tin and chaly-beated regulus of antimony, in consequence of their dellagration with nitre.

beated regulus of anumony,
deflagration with nitre.

ANTHE LIX. (Antikelix, licis. m.; from αντι,
against, and ελεξ, the helix.) The inner circle of the
external ear, so called from its opposition to the outer
circuit, called the helix.

ANTHELMINTIC. See Anthelmintic.

ANTHELMINTIC. (Antikystericus; from αντις

ANTHELMINTIC. (Antikystericus; from αντις

ANTHELMINTIC. (Antikystericus; from αντις

ANTHELMINTIC. (Antikystericus)

ANTHIYSTER IC. (Authystericus; from arrt, against, and ὑςερικα, hysterics.) Medicines which prevent or relieve hysterics.

Antile Psis. (From artilaubaro, to take hold of.)

against the plague.

ANTI LOPUS. The antelope. An African beast resembling a deer, the hoofs and horns of which were formerly given in hysteric and epilectic cases

(From avri, against, and hvoog the bite of a mad dog.) A medicine or remedy against

the bute of a mad dog.

It is been a mid dog.

A method of remeny against the bite of a mid dog.

ANTIMONIAL. (Antimonial or composition in which antimony) An antimonial or composition in which antimony is a chief ingredient. A preparation

of antimony.

Antimonial powder. See Antimonialis pulvis.

Antimonial powder. See Antimonialis pulvis.

Antimonial powder. Take
of sulphuret of antimony, powdered, a pound; hartshorn shavings, two pounds. Mix and throw them
into a broad iron pot heated to a white heat, and stir
the mixture constantly until it acquires an ash colour.

Having taken it out, reduce it to powder, and put it
into a coated crucible, upon which another inverted
erucible, having a small hole in its bottom, is to be
luted. Then raise the fire by degrees to a white heat,
and keep it so for two hours. Reduce the residuary
mass to a very line powder. The dose is from five to
ten grains. It is in high esteem as a febrifuge, sudorife, and antispasmodic. The diseases in which it is
mostly exhibited are, most species of asthenic and
exanthematous fevers, acute rheumatism, gout, discases arising from obstructed perspiration, dysuria,
nervous affections, and spasms. nervous affections, and spasms

This preparation was introduced into the former London pharmacopesia as a substitute for a medicine of extensive celebrity, Dr. James's powder; to which, however, the present form more nearly assimilates in its dose, and it is more manageable in its administration. tration, by the reduction of the proportion of antimony

Antimonic acid. See Antimony.

Antimonic acid. See Antimony. Antimony. This preparation is now directed to be made by dissolving an onne of tartarized antimony, and two drams of subcarbonate of ammonia, separately in distilled water, mixing the solutions and boiling, till the oxyde of antimony is precipitated, which is to be washed with water, and dried. This must not be confounded with the old calcined or diaphoretic antimony, being

a much more active preparation. See Antimony.
In its effects, it will be found to agree pretty much with the antimonium tartarizatum; but it is very

little employed.

ANTENDAL SCIENCRETCH PRESCRIPTATUM. Sulphure of antimonic proceipitatum. Precipitated sulphuret of antimony. This preparation of antimony appears to have readered that called kermes minoral onnecessary. It is made thus:—Take of sulphuret of antimony, in powder, two pounds:—of the solution of potassa, four pints:—of distilled water, three pints.

Mix; and boil the mixture over a slow fire for three hours, stirring it well, and occasionally addicated in the control of the pints. ANTIMONII SULPHURETUM PRÆCIPITATUM.

hours, stirring it well, and occasionally adding distilled water, so that the same measure may be preserved. Strain the solution quickly through a double linen cloth, and while it is yet hot, drop in gradually, as much sulphuric and as may be required to precipitate the powder; then wash away the sulphate of potassa by hot water; dry the precipitated sulphuret of antimony, and reduce it to powder. In this process part of the water is decomposed, and its oxygen unites partly with the autimost; the oxyde of antimony, as well as the potassa, combines with sulphur and hydrowell as the potassa, combines with sulphur and hydrowell. gen, forming hydrosulphuret of antimony and hydro-guretted sulphuret of potassa; if the solution be allowed to cool, the former of tiese partly precipitates, constituting the kermes mineral; but the addition of the sulphuric acid throws down the whole of it at once, mixed with some sulphur, furnished with the decom-position of the hydroguretted sulphuret of potassa. As an alterative and sudorific, it is in high estima-

As an alterative and shadrane, to s in high estima-tion, and given in diseases of the skin and glands; and, joined with calomel, it is one of the most power ful and penetrating alteratives we are in possession of

Antimonii tartarizati vinum. Wine of tartar- received etymology is, from auti, against, and moves, ized antimony. Take of tartarized antimony, one a monk; because Valentine, by an injudicious adscruple; boiling distilled water, eight fluid ounces; ministration of it, poisoned his broother monks.) Mirrectified spirit, two fluid ounces. Dissolve the tartar- brown. A metal found nather, but very racely; it has rectined spirit, two flind onnees. Dissolve the tartus-ized antimony in the boiling distilled water, and add the spirit to the filtered liquor. Four fluid drachms of this contain one grain of tartarized antimony. ANTIMONITE. A salt formed by the combina-tion of the antimonous acid with alkaline and other

ses. Sec. Antimony.

ANTIMO'NIUM. Sec Antimony

ANTIMONIUM CALCINATUM. An oxyde of antimony.

ANTIMONIUM DIAPHORETICUM. An old name for

an oxyde of antimony.

ANTIMONIUM TARTARIZATUM. Tartarus emeticus; Tartarum emeticum; Tartarus antimonialus; Tar-tris antimonii cum potassa; Tartarum stibiatum. Tartarum emeticum; Tartarus antimonialus; Tartris antimonii cum potassa; Tartarum stibiatum. Tartar emetic. It is obtained by boiling the fusible oxyde of antimony with supertartrate or potassa, the excess of tartaric acid dissolves the oxyde, and a triple salt is obtained by crystallization. The London Pharmacopœia directs thus Take of glass of antimony finely legivated, supertartrate of potassa in powder, of each a pound: boiling distilled water a gallon; mix the glass of antimony and the supertartrate of potassa. the glass of antimony and the supertartrate of potassa well together, and then add them by degrees to the distilled water, which is to be kept boiling and constantly stirred; boil the whole for a quarter of an hour, and then set it by. Filter it when cold, and evaporate the filtered liquor so that crystals may form it if. A solution of this cell is all the whole serviced. A solution of this salt in dilute wine is ordered in the Pharmacopæia. See Antimonii tartarizati

Tartar emetic is the most useful of all the antimonial preparations. Its action is not dependent on the state of the stomach, and, being soluble in water, its state of the stomach, and, being bottone in water, the does is easily managed, while it also acts more specifity. In doses of from one to three, four, or five grains, it generally acts powerfully as an emetic, and is employed whenever we wish to obtain the effects which result from full vomiting. As patients are differently affected by this medicine, the safest mode of exhibiting

anected by this medicine, the safest mode of exhibiting ities: B. Antimomic tartarazati, g. iii. Aque destillate, 3 iv. Misce et cola. Dosis 3 ss. omni hore quadrante, done supervenerit vonitus.

For children, emetic tartar is not so safe for an emetic as ipecacuanha powder: when great debility of the system is present, even a small dose has been known to prove fatal. Sometimes it proves cathactic. In smaller doses it evcites nausea, and proves a powerful disaphoretic and expectorant. As an emetic it is In smaller doses it excites haused, and proves a pow-erful diaphoretic and expectorant. As an emetic it is chiefly given in the beginning of fevers and febrile diseases; when great debility is present, and in the advanced stages of typhoid fever, its use is improper, and even sometimes fatal. As a diaphoretic, it is given in small doses, of from an eighth to a quarter of a grain; and as an expectorant, in doses still smaller. Emetic tartar, in small doses, combined with calomel, has been found a powerful yet safe alterative in obstinate eruptions of the skin. R. Antimonii tartari stinate eruptions of the skin. R. Antimonii tarturizati, gr iv. Hydrargyri submuriatis, gr. xvi. Confectionis rosæ gallicæ, q. s. Divide in pil. xxiv. Capitat i. mane nocteque ex thea sassufras.

In the form of powder, or dissolved in water, it is applied by a pencil to warts and obstinate ulcers: it is so given in the form of clyster, with a view to produce irritation in soporose diseases, apoplexy, ileus, and strangulated hernia. The powder mixed with any fluid, and rubbed on the scorbiculus cordis, excites Another property which tartar emetic has, vomiting. when rubbed on the skin, is that of producing a crop of pustules very like to the small-pox, and with this view it is used against rheumatic pains, white, and other obstinate swellings. The best antidote against other obstinate swellings. The best antidote against the bad effects of too large a quantity of this and other antimonial preparations, is a decoction of the bark of cinchona; in defect of which, tea and other astringents may be used. In a larger dose; this sait is capable of acting as a violent poison. The best antidotes are demuleent drinks, infusions of bark, tea, and sulphuretted hydrogen water, which instantly converts the energetic salt into a retailed with the convertion of the property of the control of anodynes are useful afterward.

ANTIMONIUM VITRIFACTUM. Glass of antimony.

An oxyde of antimony, with a little sulphuret.

ANTIMONY. (Antimonium, i. n. Avr.

The origin of this word is very obscure. The most

himistration of its possible in the first property of his, his below. A metal found native, but very raisely, it has, in that state, a metallic bistre, and is found in masses of different shapes; its colour is white, between those of this and silver. It generally contains a small portion of the null silver. of tin and silver. It generally contains a small por-tion of arsenic. It is likewise met with in the state of an oxyde, antimonial ochre. The most abundant ore of it is that in which it is combined with sulphur, the gray ore of antimony, or sulphuret of antimony. The colour of this ore is bluish, or steel gray, of a metallic lustre, and is often extremely beautifully variegated. Its texture is either compact, foliated, or striated. The striated is found both crystallized, massive, and disseminated: there are many varieties of this ore.

Properties of Antimony .- Antimony is a metal of a grayish white, having a slight bluish shade, and very brilliant. Its texture is lamellated, and exhibits very brilliant. Its texture is lamellated, and exhibits plates crossing each other in every direction. Its surface is covered with herbarisations and foliage. Its specific gravity is 6.702. It is sufficiently hard to scratch all the soft metals. It is very brittle, easily broken, and pulverizable. It fuses at 810° Fabr. It can be volatilized, and burns by a strong heat. When pertectly fused, and suffered to cool gradually, it crysperfectly fused, and suffered to cool gradually, it crys-tallizes in octahedra. It unites with sulphur and phosphorus. It decomposes water strongly at a red heat. It is soluble in alkaline sulphurets. Sulphuric acid, boiled upon antimony, is feebly decomposed Nitric acid dissolves it in the cold. Muratic acid scarcely acts upon it. The oxygenated muriatic acid gas inflames it, and the liquid acid dissolves it with gas inflames it, and the figure act dissolves it which facility. Arsenic acid dissolves it by heat with difficulty. It unites, by fusion, with gold, and renders it pale and brittle. Platina, silver, lead, bismuth, nickel, copper, arsenic, iron, cobalt, tin, and zinc, unite with autimony by fusion, and form with it compounds, more or less brittle. Mercury does not alloy with it none or less brille. Mercury does not alloy with it easily unless very pure. We are little acquainted with the action of alkalies upon it. Nitrate of potassa is decomposed by it. It fulminates by percussion with oxygenated muriate of potassa. Antimony forms three, probably four, distinct combinations with oxygen

1. The protoxyde, a blackish gray powder obtained from a mixture of powder of antimony and water at the positive pole of a voltaic circuit.

the positive pole of a voltaic circuit.

2. The deutoring, obtained by digesting the metal in powder, in muriatic acid, and pouring the solution in water of potassa. Wash and dry the precipitate. It is a powder of a dirty white colour which mells in a moderate red heat, and crystallizes as it cools.

3. The tritusing, or natromonous acid, which as immediately produced by the combustion of the metal,

called formerly, from its fine white colour, the argentine flowers of antimony. It forms the salts called antimonites with the different bases.

4. The peraxyde, or antimonic acid. This is formed when the metal in powder is ignited along with six times its weight of after in a silver crucible. The excess of potassa and nitre being afterward separated by hot water, the antimoniare of potassa is then to be decomposed by ministic acid, when the insoluble antimonic acid of a straw colour will be obtained. Methods of obtaining antimony. 1. To obtain antimony, heat 32 parts of tilings of iron to redness, and project on them, by degrees, 100 parts of antimony; when the whole is in fusion, throw on it, by degrees, 200 parts of antimony; when the whole is in fusion, throw on it, by degrees, 200 parts of antitate of potassa, and after a few nimites. This is formed 4. The peroxyde, or antimonic acid.

20 parts of nitrate of potassa, and after a few minutes quiet fusion, pour it into an iron melting cone, pre-viously heated and greased.

viously heated and greased.

2. It may also be obtained by melting eight parts of the ore mixed with six of nitrate of potassa, and three of supertartrate of potassa, gradually projected into a

red-hot crucible, and fused.

To obtain perfectly pure antimony, Margraaf melted some pounds of the sulphuret in a luted crucible, and thus scorified any metals it might contain. Of the thus scorified any metals it might contain. Of the antimony thus purified, which lay at the bottom, he took sixteen ounces, which he oxydized cautiously first with a slow, and afterward with a strong heat, until it ceased to smell of sulphur, and acquired a grayish-white colour. Or this gray powder he took four onnees, mixed them with six drachms of supertarrate of potassa, and three of charcoal, and kept them in fusion in a well-covered and luted crucible, for one | solve in boiling water the result of the evaporation, nour, and thus obtained a metallic button that weighed

one ounce, seven drachins, and twenty grains.

The metal, thus obtained, he mixed with half its weight of desircents subcarbonate of seda, and covered the mixture with the same quantity of the subcarbonate. He then melted it in a well-covered and luted crucible, in a very strong heat, for half an hour, and thus obtained a subcarbonate when the subcarbonate is a subcarbonate of the subcarbonate with the subcarbonate and thus obtained a button which weighed one ource, and thus obtained a button which weighed one ource, six drachms, and seven grains, much whiter and more beautiful than the former. This he again treated with one and a half ource of subcarbonate of soda, and obtained a button, weighing one ounce, five drachms, and six grains. This button was still purer than the foregoing. Repeating these fusions with equal weights of subcarbonate of soda three times more, and an hour and a half each time, he at last obtained a button so pure as to amalgamate with mercury with ease, very hard, and in some degree malleable; the scorize formed in the last fusion were transparent, which indicated that they contained no sulphur, and hence it is the obstinate adherence of the sulphur that renders the purification of this metal so difficult.

"Chlorine gas and antimony combine with combus-on, and a bickloride results. This was formerly pretion, and a bichloride results. This was formerly prepared by distilling a mixture of two parts of corrosive pared by distilling a mixture of two parts of corrosive sublimate with one of antimony. The substance which came over having a fatty consistence, was called butter of antimony. It is frequently crystal-lized in four-sided prisms. It is fusible and volatile at a moderate heat; and is resolved by water alone into the white oxyde and muriatic acid. Being a bichloride, it is eminently corrosive, like the bichlo-vide of measure, from which it is formed. It consists bichloride, it is eminently corrosive, like the bichloride of mercury, from which it is formed. It consists of 45.7 chlorine + 54.3 antimony, according to Dr. John Davy's analysis, when the composition of the sulphuret is corrected by its recent exact analysis by Berzelius. But 11 antimony + 2 primes chlorine = 9.0, give the proportion per cent. of 44.1 + 55.5; a good coincidence, if we consider the circuitous process by which Dr. Davy's analysis was performed. Three parts of corrosive sublimate, and one of metal-Three parts of corrosive sublimate, and one of metallic antimony, are the equivalent proportions for making butter of antimony.

Iddine and antimony combine by the aid of heat into a solid *iodine*, of a dark red colour.

The phosphuret of this metal is obtained by fusing The phosphuret of this metal is obtained by fusing it with solid phosphoric acid. It is a white semicrystalline substance. The sulphuret of antimony exists abundantly in nature. It consists, according to Berzelius, of 100 antimony + 37.25 sulphur. The proportion given by the equivalent ratio is 100 + 36.5. The only important alloys of antimony are those of lead and tin; the former constitutes type-metal, and contains about one-sixteenth of antimony; the latter earlier is explained for racking the plates or which have alloy is employed for making the plates on which mu-

sic is engraved.

The salts of antimony are of two different orders; in the first, the deutoxyde acts the part of a salifiable

hase; in the second, the tritoxide and peroxide act the part of acids, neutralizing the alkaline and other bases, to constitute the antimonites and antimoniates.

The only distinct combination of the first order entitled to our attention, is the triple salt called tartrate of then to our attention, is the triple sait called tartrate of potassea and autimony, or tartar emetic, and which, by Gay Lussac's new views, would be styled cream-tartrate of antimony. This constitutes a valuable and powerful medicine, and therefore the mode of preparing it should be correctly and clearly defined. As the dull white deutoxyde of antimony is the true basis of this compound salt, and as that oxyde readily passes by mismanagement into the tritoxide or antimonious acid, which is altogether unfit for the purpose, ade quate pains should be taken to guard against so capital an error. In the British pharmacopæias, the glass of antimony is now directed as the basis of tartar emetic. More complex and precarious formula were formerly introduced. The new edition of the Pharmacopée Française has given a recipe, which appears, with a slight change of proportions, to be unexceptionable. Take of the sulphuretted vitreous oxide of antimony, levigated and acidulous tartrate of potassa, qualitating parts. From a powder, which is to be put into an earthen or silver vessel, with a sufficient quantity of pure water. Boil the mixture for half an hour, adding boiling water from time to time; filter the hot liquor, and evaporate to dryness in a porcelain capsule; dis-

evaporate till the solution acquires the spec. grav. 1.161, and then let it repose, that crystals be obtained. which, by this process, will be pure. By another recipe, copied, with some alteration, from Mr. Philips's prescription, into the appendix of the French Pharmacopeia, a subsulphate of antimony is formed first of all, by digesting two parts of sulphuret of antimony in a moderate heat, with three parts of oil of vitriol. This insoluble subsulphate being well washed, vitriol. This insolubic subsulphate being well washed, is then digested in a quantity of boiling water, with its own weight of cream of tartar, and evaporated at the density 1.161, after which it is filtered hot. On cooling, crystals of the triple tartrate are obtained. One might imagine, that there is a chance of obtaining by this process a mixture of sulphate of potassa, and perhaps of a triple sulphate of antimony, along with the tartar emetic. Probably this does not happen, for it is said to yield crystals, very pure, very white, and without any mixture whatever.

Pure tartar emetic is in colourless and transparent tetrahedrons or octohedrons. It reddens litinus. Its taste is nauseous and caustic. Exposed to the air, it taste is nauseous and caustic. Exposed to the air, it effloresces slowly. Boiling water dissolves half its weight, and cold water a fifteenth part. Sulphuric, nitric, and muriatic acids, when poured into a solution of this salt, precipitate its cream of tartar; and soda, potassa, ammonia, or their carbonates, throw down its oxyde of antimony. Barytes, strontites, and lime waters occasion not only a precipitate of oxyde of antimony, like the alkalies, but also insoluble tartrates of these earths. That produced by the alkaline hydrosulphurets is wholly formed of kermes; while that caused by sulphuretted hydrogen, contains both kermes and cream of tartar. The decoctions of several varieties of cinchona, and of several bitter and astringent plants, equally decompose tartar emetic; and the prethes of cinchona, and of several bitter and astringent plants, equally decompose tartar emetic; and the precipitate then always consists of the oxyde of antimony, combined with the vegetable matter and cream of tartar. Physicians ought, therefore, to beware of such incompatible mixtures. When tartar emetic is exposed to a red heat, it first blackens, like all organic compounds, and afterward leaves a residuum of metallic antimony and subcarbonate of potassa. From this circumstance, and the deep brownish red precipitate, by hydrosulphures, this antimonial combination tate, by hydrosulphurets, this antimonial combination may readily be recognised. The precipitate may further be dried on a philter, and ignited with black flux, when a globule of metallic antiunony will be obtained. Infusion of galls is an active precipitant of

The composition of this salt, according to M. Thenard, is 35.4 acid, 39.6 oxyde, 16.7 potassa, and 8.2 water. The presence of the latter ingredient is obvious, from the undisputed phenomenon of efforescence. If we adopt the new views of M. Gay Lussac, this salt may be a compound of a prime equivalent of tartar = 23.825, with a prime equivalent of deutoxide of anti-mony = 13. On this hypothesis, we would have the following proportions:

2 primes acid, prime potassa, = 5.95 16.2 brime water. 4 oxyde of antimony, = 13.0036.825 100.0

But very little confidence can be reposed in such atomical representations.

The deutoxyde seems to have the property of combining with sulphur in various proportions. To this species of compound must be referred the liver of anspecies of compound must be referred an error of a timony, glass of antimony, and crocus medallorum of the ancient apothecaries. Sulphuretted hydrogen forms, with the deutoxide of autumony, a compound which possessed at one time great celebrity in medicine, and of which a modification has lately been inreduced into the art of calico printing. By dropping hydrosulphuret of potassa, or of ammonia, into the cream tartrate, or into mild muriate of antimony, the hydrosulphuric of the metallic oxyde precipitates of a beautiful deep orange colour. This is kernes mineral. beautiful deep orange colour. This is kermas mineral. Chizer's process for obtaining a fine kermas, light, veivety, and of a deep purple-brown, is the following: one part of pulverized subharbonate of antimony, 22-1-2 parts of crystallized subcarbonate of soda, and 200 parts of water, are to be boiled together in an iron pot. Filter the hot liquor into warm earthen pans, and

allow them to cool very slowly. At the end of 24 wash it with water which had been boiled and then wash it with water which had been boiled and then cooled out of contact with air. Dry the kermes at a temperature of 85°, and preserve in corked passels. Whatever may be the process employed, by boiling the lungor, after cooling and filtration, on new sulphineer of aminons, or upon that which was left in the former operation, this new liquid will deposite, on cooling, a new quantity of kermes. Besides the hydrosulphuretted oxyde of antimony, there is formed a sulphuretted hydrosulphuret of potassa or soda. Consequently the alkali seizes a portion of the sulphur from the antimonial sulphuret, water is decomposed; and, while a a portion of its hydrogen unites to the alkaline sulphuret, its oxygen, and the other portion of its hydrophuret, its oxygen, and the other portion of its hydrogen, combine with the sulphuretted antimony. It
seems, that the resulting kermes remains dissolved in
the sulphuretted hydrosulphuret of potassa or soda;
but as it is less soluble in the cold than the hot, it is
partially precipitated by refrigeration. If we pour into
the supernatant liquid, after the kermes is deposited
and removed, any acid, as the dilute nitric, sulphuric,
or muriatic, we decompose the sulphuretted hydrosulphuret of potassa or soda. The alkaline base being
laid hold of, the sulphuretted hydrogen and sulphur to
which they were united are set at liberty: the sulphur which they were united are set at liberty; the sulphur and kermes fall together, combine with it, and form and kermes fall together, combine with it, and form an orange-coloured compound, called the golden sul-phuret of antimony. It is a hydroguretted sulphuret of antimony. Hence, when it is digested with warm muriatic acid, a large residuum of sulphur is obtained, amounting sometimes to 12 per cent. Kernes is composed, by Thenard, of 20.3 sulphuretted hydrogen, 4.15 sulphur, 12.76 oxyde of antimony, 2.79 water and loss; and the golden sulphuret consists of 17.87 sulphuretted

hydrogen, 68.3 oxyde of antimony, and 12 sulphur.

By evaporating the supernatant kermes liquid, and cooling, crystals form, which have been lately employed by the calico printer to give a topical orange These crystals are dissolved in water, and the solution. being thickened with paste or gum, is applied to cloth in the usual way. When the cloth is dried, it is passed through a dilute acid, when the orange precipi-tate is deposited and fixed on the vegetable fibres.

An empirical antimonial medicine, called James's powder, has been much used in this country. The An empirical antimonial interictine, caited James's powder, has been much used in this country. The inventor called it his frere paneter, and was so successful in his practice with it, that it obtained very great reputation, which it still in some measure retains. Probably, the success of Dr. James was in a great measure owing to his free use of the bark, which he always gave as largely as the stomach would bear, as soon as he had completely evacuated the prime vize by the use of his antimonial preparation, with which at first he used to combine some mercurial. His specification, lodged in chancery, is as follows: "Take antimony, calcine it with a continued protracted heat, in a flat, unglazed, earthen vessel, adding to it from time to time a sufficient quantity of any animal oil and salt, well depllegmated; then boil it in metted nitre for a considerable time, and separate the powder from the nitre by dissolving it in water." The real recipe has been studiously concealed, and a false one published in its stead. Different formulæ have been offered for imitating it. That of Dr. Pearson furnishes a mere mixture of an oxyde of antimony, with phosa mere mixture of an oxyde of antimony, with phosphate of lime. The real powder of James, according to this rhemist, consists of 57 oxyde of antimony, with 43 phosphate of lime. It seems highly probable that superphosphate of lime would act on oxyde of antimony in a way somewhat similar to cream of tartar, and produce a more chemical combination than what can be derived from a precarious ustulation, and calcan be derived from a precarious distantion, and actionation of hartshorn shavings and sulphuret of antimony, in ordinary hands. The antimonial medicines are powerful deobstruents, promoting particularly the cuticular discharge. The union of this metallic oxyde are powerful deobstruents, promoting paracusary occutioular discharge. The union of this metallic oxyde with sulphuretted hydrogen, ought undoubtedly to favour its medicinal agency in chronic discusses of the skin. The kermes deserves more credit than it has hitherto received from British physicians.

The compounds, formed by the antimonious and antimonic acids with the bases, have not been applied to any use. Muriate of barytes may be employed as a test for tartar emetic. It will show, by a precipitate insoluble in nitric acid, if sulphate of potassa be pre-

At the end of 24 sent. If the crystals be regularly formed, more tarter hrow it on a filter, need not be suspected."—Ere's (them. Diels n boiled and then | The preparations of autimony formerly in use were

very many : those now directed to be kept are ;-

Sulphuretum antimonii.

Oxydum antimonii.

3. Sulphuretum antimonii præcipitatum.

Antimonium tartarizatum. Vinum antimonii tartarizati.

Pulers antinomedis.
 ANTI MORIS. (From arr), against, and μορος, death, or disease.) A medicine to prolong life.
 ANTINIPHIRTTIC (contemporations; from arr), against, and respect, a disease of the kidneys.) A remody against disorders of the kidneys.
 ANTIODONTALGIC. (controllar dispersions) from a contemporation of the contemporation of the contemporation.

avre, against, and ocorradyea, the toothache.) Against

ANTIODONTA'LGICUS. An insect described by Germi in a small work published at Plorence 1794, so called from its property of allaying the toothache. It is a kind of curculio tound on a species of thistle, Carduus spinosissimus. If twelve or fifteen of these insects, in the state of larva, or when come to perfection, be bruised and rubbed slowly between the fore-finger be bruised and rubbed slowly between the fore-finger and thumb until they have lost their moisture, and if the painful tooth, where it is hollow, be touched with that finger, the pain ceases sometimes instantaneously. A piece of shamoy leather will answer the same purpose with the finger. If the gams are inflamed, the remedy is of no avail. Other insects possess the property of curing the toothache; such as the Scarabeus ferrugineus of Fabricius; the Coccinella septempunctata, or lady-bird; the Chrysomela songumolenta. This property belongs to several kinds of the Colombra. Chrysomela sangumolenta. This property belongs to several kinds of the Coleoptera.

ANTIPARALY TIC. (Antiparalyticus; from avr., against, and παραλυσις, the palsy.) Against the

ANTIPATHY. (Antipathia, α. f. Αντιπαθης, from αντιπαθεω, to have a natural repugnance or dislike; from avre, against, and mados, an affection.) 1. An aversion to particular objects

2. The name of a genus of diseases in some classifi-

ANTIPERISTA'LTIC. (Antiperistalticus; from aντι, against, and περιζελλω, to contract.) Whatso ver obstructs the peristaltic motion of the intestines. Whatsoe-

Antiperi's Tatis. (From apre, against, and meogy ut, to press.) A compression on all sides. Theo

ANTIPHA'RMIC. (Antipharmicus; from avrt, against, and φαρμακον, a poison.) The same as alexipharmic. Remedies or preservatives against poison.—

ANTIPHLOGI'STIC. (Antiphlogisticus; from av-A TIPHLOGISTIC. (Antennogesteens), from αρ-rt, against, and φλεγω, to burn.) A term applied to those medicines, plans of diet, and other circumstances, which tend to oppose inflammation, or which, in other words, weaken the system by diminishing the activity

of the vital power. ANTIPHTHUSIC. (Antiphthisicus; from apri, against, and  $\phi\theta\iota\sigma\iota s$ , consumption.) Against a con-

sunption.

ANTI PHTHORA. (From avr., against, and φθορα, corruption.) A species of wolfshane which resists corruption. Sec Armitum authora.

ANTIPHY'SIC. (Antiphysicus; from avr., against,

and  $\phi v \sigma a \omega$ , to blow.) A carminative or remedy against wind.

ANTIPLEURI'TIC. (Antipleuriticus; from avre, against, and πλευοστις, pleurisy.) Against a pleurisy.

ANTIPODA GRIC. (Antipodagricus; from αντι, against, and ποέαγοα, the gout.) That which relieves

or removes the gout. ANTIPRANIA. (From avre against, and πρασσω, to

work.) A contrariety of functions and temperaments

work.) A contrariety of symptoms.

ANTIPYRETIC. (Antippertiess; from avri, against, and muperos, fever.) Against a fever.

ANTIQUARTANA'RIA. (From avri, against, and quartana, a quartan fever.) Remedies against quartanary. tan agues.

ANTIGEN'S TIETM. The same as Antiquarianaria.
ANTIGEN'S TIETM. The same as Antiquarianaria.
ANTIGEN'S ANTI

ANTIRRHINUM ELATINE. The systematic name of the plant we call fluelled, or female speedwell. Elutine of the shops. The leaves of this plant have a roughish bitter taste, but no smell. It was formerly much used against scurvy and old ulcerations, but now

wholly forgotten.

Antirehinum Linaria. The systematic name for the linaria of the pharmacopesias. Ospris; Urina ria; Antirrhinum—foliis lanceolatis linearibus conria; antirrhinum—joins lanceolaits innearible conferits, caule erecto, spicis terminalibus sissilibus, florribus imbricatis of Linnœus. Common toad-flax. A perennial indigenous plant, common in barren pastures, hedges, and the sides of roads, flowering from July to September. The leaves have a biliterish and somewhat salme taste, and when rubbed between the fingers, have a faint smell, resembling that of elder. They are said to be diuretic and cathartic, and in both They are said to be durente and catharite, and in both characters to act powerfully, especially in the first; hence the name urinaria. They have been recommended in dropsies and other disorders requiring powerful evacuations. The linaria has also been used as a resolvent in jaundice, and such diseases as were sup-posed to arise from visceral obstructions. But the plant has been chiefly valued for its effects when ex ternally applied, especially in hæmorrhoidal affections, for which both the leaves and flowers have been employed in various forms of ointment, formentation, and pouttice. Dr. Wolph first invented an ointment of this plant for the piles. The Landgrave of Hesse, to whom he was physician, constantly interrogated him, to discover its composition; but Wolph obstinately refused, till the prince promised to give him a fat ox annually for the discovery; hence, to the following verse, which was made to distinguish the linaria from the escula, viz.

"Escula lactescit, sine lacte linaria crescit." The hereditary Marshal of Hesse added,

" Escala nul nobis, seed dat linaria taurum."

ANTISCO'UIC. (Antiscolicus; from avr., against. and σκωλής, a worm.) Remedies against worms.

See Anthelmintic.

ANTISCORBU'TIC. (Antiscorbuticus, from avri against, and scorbutus, the scurvy.) Medicines which

cure the scurvy

ANTISEPTIC. (Antisepticus, from avri, against and  $\sigma\eta\pi\omega$ , to putrefy.) Whatever possesses a power of preventing animal substances from passing into a state of putrefaction, and of obviating putrefaction when already begun. This class of medicines comstate of prehends four orders:

1. Tonic antiseptics; as cinchona, cusparia, chammelum, &c. which are suited for every condition of body, and are, in general, preferable to other antiseptics, for those with relaxed habits.

2. Refrigerating antiseptics; as acids, which are principally adapted for the young, vigorous, and plethoric.

3. Stimulating antiseptics; as wine and alkohol, best adapted for the old and debilitated.

4. Antispasmodic antiseptics; as camphor and asafætida, which are to be selected for irritable and hys-

terical habits.

"The presence of air, though not necessary to pu-The presence of air, inough not necessary to putrefaction, materially accelerates it, and those gases which contain no oxygen, are very efficient in checking or altogether preventing the process. Carbonic acid also remarkably retards putrefaction; and if boiled meat be carefully confined in vessels containing that gas it is remained for a work-location grounding the propagal or that gas, it remains for a very long time unchanged, as seen in Mr. Appert's method of preserving meat."

"There are several substances which, by forming new combinations with animal matter, retard or pre-vent putrefaction; such as chlorine, and many of the saline and metallic compounds; sugar, alkohol, volatile oils, acetic acids, and many other vegetable substances. also stand in the list of antiputrefactives, though their mode of operating is by no means understood."-Webster's Man. of Chem.

The alkaline earths and salts are antiseptics, and act by absorbing the acids formed in the process of putre by absorbing the actions formed in the processor pure-faction. Carbon or charcoal of wood is one of the most powerful antiseptics. It will restore tainted meat, and purity offensive water. Casks are now charred to contain water on long sea voyages, and it will continue pure and sweet in these for a long time.

Linnean system. Class, Didynamia; Order, Angiospermia.

Anterritum elatine. The systematic name of Cure intermittent fevers. A.]

ANTISPASMODIC. (Antispasmodicus; from arri,

ANTIFFASMODIC. (Antispasmodicus; momenta, against, and of meapon, a spasm.) Possessing the power of allaying, or removing, inordinate motions in the system, particularly those involuntary contractions which take place in muscles, naturally subject to the command of the will. Spasm may arise from various causes. One of the most frequent is a strong irritation, causes. One of the most frequent is a strong irritation, continually applied; such as dentition, or worms. In these cases, narcotics prove useful, by diminishing irritability and sensibility. Sometimes spasm arises from mere debility; and the obvious means of removing this is by the use of tonics. Both narcotics and tonics, therefore, are occasionally useful as antisparative. and tonics, therefore, are occasionally useful as anti-spasmodics, such as opium, camphor, and ather, in the one class, and zinc, mercury, and Peruvian bark, in the other. But there are, farther, several other substances, which cannot be with propriety referred to either of these classes; and to these, the title of an-tispasmodies is more exclusively appropriated. The principal antispasmodics, properly so called, are mos-chus, castoreum, oleum animale empyreumaticum, petroleum, ammonia, asafætida, sagapenum, galbanum, valeriana, crocus, melaleuca leucadendron. The narcotics, used as antispasmodics, are æther, opium, csmphor. The tonics, used as autispasmodics, are cuprum, zincum, hydrargyrum, cinchona.

ANTITHEMAR. (From avr., against, and 3evap, the palm of the hand or foot.) A muscle of the foot.

See Adductor politicis pedis.

ANTITRA GICUS. Antitragus. One of the proper muscles of the ear, the use of which is to turn up the tip of the antituagus a little outwards, and to depress the extremity of the antihelix towards it.

ANTITRAGUS. (Antiragus, i.m. from arr, and rapays, the tragus.)

An eminence of the outer ear, opposite to the tragus.

ANTIVENE REAL. (From avr., against, and venerus, venereal.) Against the venereal disease.

ANTONII SANCTI IGNIS. (So called because

St. Anthony was supposed to cure it miraculously. In the Roman missal, St. Anthony is implored as being the preserver from all sorts of fire.) St. Anthony's

fire. See Erysipelas.

Antophy'llon. (From aντι, against, and φυλλον a leaf; so called because its leaves are opposite.) The

a feat; so caned Decause to reaves at opposite; male caryopylius.

A'NTRUM. (Antrum, i. n. a den or cave.) 1 A cavity which has a small opening into it.

2. The cochlea of the ear.

ANTRUM BUCKINOSUM. The cochlea of the ear ANTRUM GENE. See Antrum of Highmore.

ANTRUM HIGHMORIANUM. See Antrum of High-

ANTRUM OF HIGHMORE. (From the name of an anatomist, who gave the first accurate description of Maxillary sinus. A large cavity in the middle of each superior maxillary bone, between the eye and the roof of the mouth, lined by the mucous membrane of the

nose. See Maxillare superius, os.

One or both antra are liable to several morbid affections. Sometimes their membranous lining inflames and secretes pus. At other times, in consequence of inflammation, or other causes, various excrescences and fungi are produced in them. Their bony parietes are occasionally affected with exostosis, or caries. Extraneous bodies may be lodged on them, and it is even asserted that insects may be generated in them, and cause, for many years, afficing pains. Abscesses in the antrum are by far the most common. Violent blows on the cheek, inflammatory affections of the adjacent parts, and especially of the pituitary memadjacent parts, and especially of the pinitary membrane lining the nostrils, exposure to cold and damp, and, above all things, bad teeth, may induce inflammation and suppuration in the antrum. The first symptom is a pain, at first imagined to be a toothache, particularly if there should be a carious tooth at this part of the jaw. This pain, however, extends more into the nose than that usually does which arises from a decayed tooth; it also alliers, more or less, the from a decayed tooth; it also affects, more or less, the

ANY ANU

eye, the orbit, and the situation of the frontal sinuses. I just where the mucous membrane joins the skin. The But even such symptoms are insufficient to character-But even such symptoms are insumerent to characterize the disease, the nature of which is not unequivo-cally exmeed, till a much later period. The complaint is, in general, of much longer duration than one en-tirely dependent on a caries of the tooth, and its vio-lence increases more and more, until at last a hard tamour becomes perceptible below the cheek-bone. The swelling by degrees extends over the whole cheek; but it afterward rises to a point, and forms a very cir-cumseribed hardness, which may be felt above the back grinders. This symptom is accompanied by redness, and sometimes by inflammation and suppuration of the external parts. It is not uncommon also, for the outward abscess to communicate with that within the antrum. The circumscribed elevation of the tumour, however, does not occur in all cases. There are instances in which the matter makes its way towards the palate, causing the bones of the part to swell, and at length rendering them carious, unless timely assistance be given. There are other examples, in which the matter escapes between the fangs and sockets of the teeth. Lastly, there are other examples, in which matter, formed in the autrum, makes its exit at the nostril of the same side when the patient is lying with his head on the opposite one, in a low position. If this mode of evacuation should be frequently repeated, it prevents the tumour both from of the external parts. It is not uncommon also, for quently repeated, it prevents the tumour both from pointing externally, and bursting, as it would do if the purulent matter could find no other vent. This evacuation of the pastrom the nostril is not very common. The method of cure consists in extracting one of the dentes molares from the affected side; and then perforating through the socket into the bony cavity.

A mild injection may afterward be employed to cleanse the sinus occasionally

CHAINS THE SIMIS OCCASIONARY.

ANTERM MANILLARE. See Antrum of Highmore.

ANTERM MANILLARE. See Antrum of Highmore.

ANTRUM MANILLARE. See Intrum of Highmore.

ANTALLARE. See Antrum of Highmore.

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ANTALLARE. See Antrum of Highmore.

Antru

A'NUS. (Anus, i. masc. quasi onus; as carrying

A NUS. (Anns, a. mesc. quase onus; as carrying the burden of the bowels.)

1. The fundament; the lower extremity of the great intestine, named the rectum, is so called; and its office is to form an outlet for the faces. The anns is furnished with muscles which are peculiar to it, viz. the sphimeter, which forms a broad circular band of fibres, and keeps it habitually closed, and the levatores ani, which serve to dilate and draw it up to its natural situation, after the expulsion of the fæces. It is also surrounded, as well as the whole of the neighbouring intestine, with muscular fibres, and a very loose sort of cellular substance. The anus is subject to various diseases, especially piles, ulceration, abscesses, excrescences, prolapsus; and imperforation in new-born

2. The term anus is also applied to a small opening of the third ventricle of the brain, which leads into

[Fissure of the anus. In the New-York Medical [Fissure of the anns. In the New-York Medical and Physical Journal, a very interesting case of this malady is related by the patient himself. He was successfully operated upon by Professor Alexander H. Stevens, M.D., of the College of Physicians and Surgeons of New-York. The fissure was on one side, and the incision was made directly upon it and through the historical control of the professor o sphincter. The relief from the most agonizing pain was immediate and permanent. We find a note on the subject of this disease in the Philadelphia edition of Cooper's First Lines of the Practice of Surgery, which

we quote.

"Baron Boyer has recently called the attention of Surgeons to what he has denominated fissure of the anus. Though this disease was noticed by Attus, it has the surgeons until the time anus. Though this disease was noticed by Ætius, it passed unobserved by modern surgeons until the time of Sabatier, who imperfectly described it. Baron Boyer has met with many cases of it, and it is now understood by all the surgeous of Paris, where it is said to be not uncommon. It has been generally confounded with ulcerated piles, blind fistula, or other diseases of the rectum. The symptoms it occasions have been considered inexplicable by the surgeon, though exceedingly distressing to the patient. Fissure of the anus is an oblong ulceration of the extremity of the rectun, 78

ulceration is generally a little above the anus, so that it is not easily discovered, unless the sides of the recit is not easily discovered, unless the success of the rec-tion are drawn ontwards, and the gut partially everted. Moreover, the fissure is superficial, and presents nothing striking to the eye, and is, therefore, more likely to pass unobserved. The mucous membrane is more red than natural at the edges of the ulcerated portion, which is entirely absorbed; but there is nothing unnatural to be felt with the fingers, except a very remarkable constriction, which accompanies, or rather precedes, this disease. It would appear, that this constriction is, indeed, the cause of the malady,

this constriction is, inaced, the cause of the manaly, which results from the efforts to expel hardened faces through the contracted passage. The introduction of the finger causes exquisite pain."

"The first symptom of the disease, is pain felt in evacuating the rectum, greatly aggravated by costiveness, and rendered most excruciating by the hardness of the faces. Hence the sufferer is led to use injections and mild laxative medicines. In the commencement, the pain subsides at the expiration of about half an the pain subsides at the expiration of about in an an hour; in its progress, the paroxysms lengthen to several hours' duration, and the patients writhe in agony, not knowing what position to put themselves in. They suffer lenst in bed, and remain there several days with-out leaving it. The pain has accessions without any known cause, and often ceases in the same manner."

"The pain appears to be owing to a retention of excrementitious matter near the extremity of the rectum, the expulsion of which is prevented by the constriction of the sphincter ani. The faces are, sometimes, streaked with a line of blood, especially if they be hard; but this is not always the case: sometimes there is a discharge per anim of a white liquid matter, in small quantities; this is what would be expected from an inflamed or ulcerated mucous membrane, but occasionally the ulceration extends to the muscular

coat of the intestine."

"These symptoms vary in different patients. In delicate and nervous women, a variety of remote symptoms occur, and often conceal the origin of the primary complaint, which is mistaken for cancer of the rectum, ulceration of the womb, &c."

"In this disease there are two distinct occurrences:

viz. constriction of the anus, and ulceration or fissure. The former is the cause of the latter. Ulceration with-Ulceration without constriction, as we every day see in fistula in ano, does not occasion so severe pain as is felt in this com-plaint. With respect to the treatment of this complaint. With respect to the treatment or this com-plaint, if it be slight, it will sometimes yield to laxative medicines and the application of leeches to the perimeum. But these means are not generally sufficient. It is then necessary to divide with the knife the whole of the sphincter ani, and that if possible, immediately at the seat of the fissure. The incision should be at at the sear of the fissure. The incision should be at least one-third of an inch deep, especially near the verge of the anus, and an inch long. After the ope-ration, or at any rate, before cicatrization begins, a tent is to be introduced and kept in the rectum, withtent is to be introduced and kep in the rectum, with-out which the operation would be unsuccessful. When the fissure is in the anterior part of the anus, as the sphincter could not be safely divided in that direc-tion, it is best to cut towards the coccyx. After the cure the rectum is found more ample than before." A.J. ANYS, ARTIFICIAL. An accidental opening in the parietes of the abdomen, to which opening some part of

the intestinal canal leads, and through which the faces are either wholly or in part discharged. When stran-gulated hernia occurs, in which the intestine is simply guiated nerms occurs, in when the pinched, and this event is unknown; when it has not been relieved by the usual means; or when the necessary operation has not been practised in time; the protruded part becomes gangrenous, and the faces escape. But if the patient should be at last operated upon, his fæces are discharged through the wound, and the intestines are more easily emptied. In both cases, the excrement continues to be discharged from the artificial opening. In this way an artificial anus is formed, through which the excrement is evacuated during life.

ANY PRION. (From α, priv. and νδωρ, water; so called, because they who eat of it become thirsty.) A species of night-shade, according to Blancard.

ANY PEC THYNES. (From α, neg. and υπευθυνος, blanneable.) Hippocrates, in his Precepts, uses this word to simply on predictions.

word to signify an accidental event, which cannot be

AORTA. (Aorta, σ. f.; from any, air, and τηφεω, to keep: so called because the ancients supposed that only air was contained in it.) The great artery of the body, which arises from the left ventricle of the heart, forms a curvature in the chest, and descends

into the abdomen. See Artery.

APALACHI'NE GALLIS. (From απαλακω, to repel; because it is supposed to repel infection.) See Hex

APARI'NE. (From  $\rho \nu \eta$ , a file; because its bark is rough, and rasps like a file.) Goose-grass. See Galium aparine.

ΑΡΑΚΤΗΚΟ'SIS. (From απο and αρθρον, a joint.)

APATITE. A phosphate of lime mineral, of a white wine, yellow, green and red colour, found in primitive rocks in Cornwall and Devonshire.

primitive rocks in Cornwall and Devonshire.
[There are several varieties of the phosphate of lime. The first variety (apatite) yielded klaproth, lime 55.00, phosphoric acid, 45.00.

Its solubility in acids, and inferior hardness, may serve to distinguish it from the chrysoberil, tourmaline, topaz, chrysbilite, beryl, emerald, and some varieties of quartz; all of which it more or less resembles, especially the emerald, beryl, and chrysbilte. From carbonate of lime it differs by its greater hardness, and want of effersespaces in acids, and if does not like the want of effervescence in acids; and it does not like the fluate of lime, when its powder is thrown into warm sulphuric acid, yield a gas capable of corroding glass, sulpturic acid, yield a gas capable of corroding glass, unless from the accidental presence of a small quantity of that salt. The variety of phosphate of lime, called apatite, usually in crystals, sometimes presents a low six-sided prism, the primitive form.

The same gaugure, which contains the crystals, often embraces grains or small granular masses, having a crystalline structure, but nearly or quite destitute of a

regular form. The apatite occurs in veins, or is disseminated in granite, gneiss, or other primitive rocks. It is associated with quartz, feldspar, fluate of lime,

It is associated with quartz, feldspar, fluate of lime, garnets, the oxydes of iron, tin, &cc.

Apatite has been found in Maryland, Pennsylvania, and New-York; also in the States of Connecticut and Maine.—Cl. Min. A., priv. and pellis, skin.) Shortness of the prepuee. Galen gives this name to all whose prepuce, either through disease, section, or otherwise, will not cover the glans.

APE PSIA. (Apopsia, & f. Aπeψιa; from a, priv. and πππνο, to digest.) Indigestion. See Ingspepsia.

APE HENNS PALPEBRAKUM RECTUS. See Levator

APE'RIENS PALPEBRARUM RECTUS. See Levator

palpebra superioris.

APERIENT. (Aperiens; from aperio, to open.)

1. That which gently opens the bowels.

2. Applied also to muscles, the office of which is to open parts; as the levator palpebra superioris, which is called, in some anatomical works, aperiens palpebra. APERI STATON. See Appointations, aperiod parpoint.

APERI STATON. See Appointation.

APERI STATUS. (From a, neg. and περιςτμι, to surround.) Aperistation. An epithet used by Galen, of

an ulcer which is not dangerous, nor surrounded by

APETALUS. (From a, priv. and petalum, a petal.) Without a petal or corol

APETALE PLANTE. Plants without petals. name of a division of plants in most systems of botany.

APEUTHY'SMENUS. (From απο and ευθυς, straight.) A name formerly given to the intestinum rectum, or

straight gut.

A PEX. 1. The extremity of a part; as the apex of the tongue, apex of the nose, &cc.

2. The extremity of a leaf, apex folii.

3. The anthera of a flower of Tournefort, Rivinus,

APHANI'SMUS. (From αφανίζω, to remove from the sight.) The removal, or gradual decay, of a disorder. APHANITE. The name given by Haiy to a rock apparently homogeneous, but really compound, in

which amphibole is the predominant principle. APILE RESIS. (From αφαίοεω, to remove.) This term was formerly much used in the schools of surgery,

was formerly fluctuated in the consists in taking off any diseased or preternatural part of the body.

APHELNIA. (.\*\*sphelxia, α. f. from αφελκω, abstratio to separate or abstract.) Revery. A genus

charged on the physician, and for which he is not accountable.

of diseases in Good's classification constituted by absence or abstraction of mind. See Novology.

APHEPSE'MA. (From απο, and εψω, to boil.) A

A'PHESIS. (From αφιημι, to remit.) The remission or termination of a disorder. APHISTE'SIS. (From αφιςημι, to draw from.) An

abscess.

Aphlogistic lamp. One which burns without flame.

A PHODOS. (From ano, and σίος, departure.) Excrement. The dejection of the body.

APHO NIA. (Αφωνια; from a. priv. and φωνη, the voice.) A suppression of the voice, without either syncope or coma. A genus of disease in the class Locales, and order Dyscinesiæ, of Cullen.

1. When it takes place from a tumour of the fauces, or about the glottis, it is termed aphonia gutturalis.

2. When from a disease of the trachea, aphonia trachealis.

trachealis

3. And when from a paralysis, or want of nervous

3. And when from a paralysis, of want of nervous energy, aphonia atonica. APHORIA. (Aphorica, σ. f.; from α, negative, and φερω, fero, paris.) Barrenness. The name of a genus of diseases in Good's new classification. See Noso-

logy.
A'PHORISM. (Aphorismus; from αφοριζω, to distinguish.) A maxim, or principle, comprehended in a

short sentence.

APHRITE. Earth foam. A carbonate of lime usually found in calcareous veins at Gera in Misnia and

[APHRIZITE. A variety of schorl, sometimes in nine-sided prisms, terminated at one extremity by three faces, and at the other by six, of which three are larger than the others, and stand on those three lateral

larger than the others, and stand on those three lateral edges of the prism, each of which contains an angle of 120°.—(1. Min. A.]

APHRODISIA. (From Αφροδιτη, Venus.) An immoderate desire of venery.

APHRODISIAC. (Aphrodisiacus; from αφροδισια, venery.) That which excites a desire for venery.

APHRODISIA'S TICON. (From αφρος, froth.) A troch so called by Galen, because it was given in dysenteries, where the studys were forthy. where the stools were frothy.

APHRODI'SIUS MORBUS. (From Αφροδιτη, Venus.)

The venereal disease

The venereal disease.

APHTHA. (Aphtha, α. f. Αφθαι; from απτω, to inflame.) The thrush. Frog, or sore mouth. Aphtha lustucimen of Sauvages. Ulcera scrpentia onis. Pustula oris. Alcola. Vesicula gingivarum. Acaeos. Aphtha infantum. A disease ranked by Cullen in the class Pyrexia, order Exanthemata. Children are very subject to it. It appears in small, white ulcers upon the conque, gums, and around the mouth and palate. ject to it. It appears in small, white ulcers upon the tongue, gums, and around the mouth and palate, resembling small particles of curdled milk. When the disease is mild, it is confined to these parts; but when it is violent and of long standing, it is ap to extend through the whole course of the alimentary canal, from the mouth down to the anus; and so to excite severe purgings, flatulencies, and other disagreeable symptoms. The disease when recent and confined to the mouth, may in general be easily removed; but when of long standing, and extending down to the stomach and intestines, it very frequently proves fatal. The through sometimes occurs as a chronic disease,

The thrush sometimes occurs as a chronic disease, both in warm climates and in those northern countries noth in warm climates and in those northern countries where the cold is combined with a considerable degree of moisture, or where the soil is of a very marshy nature. It may, in some cases, be considered as an idiopathic affection; but it is more usually symptomatic. It shows itself, at first, by an uneasy sensation, or burning heat in the stomach, which comes on burslaw, durance and increases gradually in violence. by slow degrees, and increases gradually in violence.
After some time, small pimples, of about the size of a pin's head, show themselves on the tip and edges of the tongue; and these, at length, spread over the whole inside of the mouth, and occasion such a tenderness and rawness, that the patient cannot take any food of a solid nature; neither can he receive any vinous or spirituous liquor into his mouth, without great pun-gency and pain being excited; little febrile heat attends gensy and part being extruct, after rown recarding to the three is a dry skin, pale countenance, small pulse, and cold extremities. These symptoms will probably continue for some weeks, the general health being sometimes better and sometimes were, and then the patient will be attacked with acrid eructations, or

severe purgings, which greatly exhaust his strength, and produce considerable emaciation of the whole body. After a little time, these symptoms coase, and body. After a little time, these symptoms cease, and he again enjoys better health; but, sooner or later, the acrid matter shows itself once more in the menuth, with greater virulence than before, and makes frequent translations to the stomach and intestines, and so from these to the mouth again, until, at last, the patient is reduced to a perfect skeleton. Elderly people, and persons with a shattered constitution, are most liable to its attacks. The treatment of the thrush in children is granted to be beginning with the exhibition of a gentle persons with a shattered constitution, are most hable to its attacks. The treatment of the thrush in children is generally to be begun with the exhibition of a gentle emetic: then clear the bowels, if confined, by rhubarb and magnesia, castor oil, or other mild aperients; or sometimes in gross, torpic habits by a dose of exiomel. In general the prevalence of acid in the prima via appears to lead to the complaint; whence antacid remedies prove beneficial in its progress: when the patient is costive, giving the preference to magnesia; when relaxed, to chalk, which may be sometimes joined with aromatics, the mild vegetable astringents, or even a little opium, if the diarthex be urgent. Where the child is very weak, and the aphther of a dark colour, the decoction of bark or other tonics must be had recourse to. The separation of the sloughs and healing of the ulcers may be promoted by washing the mouth occasionally with the honey of botax, diluted with two or three parts of rose water; or where they are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark, acidnt are of a dark colour, by the decoction of bark are of a dark colour, by the decoction of bark are of a dark colour, by the decoction of bark are of a dark with two or three parts of rose water; or where they are of a dark colour, by the decoction of bark, acidulated with sulphuric acid. The diet should be light and nutritious, especially where there is much debility. As the complaint is subsiding, particular attention is required to obviate the bowels becoming contined. In required to obviate the bowels becoming confined. In the chronic aphithe affecting grown persons, pretty much the same plan of treatment is to be pursued: besides which, the compound powder of ipecacuanha and other diaphoreties, assisted by the occasional use of the warm bath, wearing flaunch next the skin, particularly in a drawn child, chiusto for a more to be ticularly in a damp cold climate, &c. appear to be beneficial.

APHYLLUS. (From a, priv. and φυλλον, a leaf.)
Leafless. A term applied to parts of plants which are
conditioned when similar parts of other plants have leaves. Thus a stem is said to be aphyllous when it is altogether void of leaves. Linnæus uses the term nudus. Examples are found in Cuscuta Europæa,

dodder ; Asphodelus fistulosus, &c.

APHYLLE PLANUE. Aphyllous plants, or plants without leaves. Some plants being entirely devoid of leaves, are naturally arranged under one head, to which this name is given.

APIS. The name of a genus of insects in the Linman system. The bee.

APIS MELLIPICA. The systematic name of the

APIS MELLIFICA. The systematic name of the honey-bee. It was formerly dried and powdered, and thus given internally as a diuretic. It is to the industry thus given Internally as a diuretic. It is to the industry of this little animal that we are indebted for honey and wax. See Mel and Chra. The venom of the bee, according to Fontana, bears a close resemblance to that of the viper. It is contained in a small vesicle, and has a hot acrid taste like that of the scorpion. APIUM. (Apium, i. n.; from ynuo, Dorrick, annog, mild: or from apes, bees; because they are fond of it.)

1. The name of a genus of plants in the Linnæan system. Class, Pentandria; Order, Digynia.

2. The pharmacoperial name of the herb smallage. See Apium granuellens.

2. The pharmacoparia name of the herb smanage. See Apium graveolens.

APIUM GRAVEOLENS. The systematic name for the apium of the pharmacopaias. Apium—foiolis cautinis, cunciformibus, umbellis, sessilibus, of Linneus.

Smallage The root, seeds, and fresh plant, are aperaturbing accounting the second control of the company of the control of the contro

Fient and carminative.

APIUM HORTENSE. See Apium petroselinum.

APIUM PETROSELINUM. The systematic name for APUM PETROSELINM. The systematic name for the petroselinum of the pharmacoposias. Petroselinum outgare. Apium hortense. Common parsley. Apium hortense. Common parsley. Apium Linneus. Both the roots and seeds of this plant were formerly directed by the London College for medicinul use, and the root is still retained in the Edinburgh Pharmacoposia: the former have a sweetish taste, accompanied with a slight warmth or flavour, somewhat resembling that of carrot; the latter are in taste warmer and more aromatic than any other part of the plant, and manifest considerable bitterness. The roots are said to be aperient and directic, and have been employed in nepiritic pains and obstructions of urine. warmer and more aromatic than any other part of the plant, and manifest considerable bitterness. The roots are said to be apperient and directic, and have been employed in nephritic pains and obstructions of urine.

The seeds possess aromatic and carminative powers, tom prescribed

LAPLOME of Haiy, Brochant, Brogniar. This very rare mineral has been observed only in dodecac-drons with rhombic faces, marked by strice, parallel to the shorter deagonals. This dodecaedron is supposed to be derived from a cube by one of the most simple laws of decrement; viz. that of a single range of particles parallel to all the edges of a cube. Hence its name from the Greek Andoos, simple.

The Aplome gives fire with steel, and feebly scratches quartz. Its specific gravity, is 3.44. Its fracture in some parts is aneven and nearly dull; while in others it is shiring and slightly conchoidal. Its colour is usually a deep brown, sometimes yellowish green. It is usually opaque, but the small crystals often trans-

mit an orange-colonied light.

It is fusible by the blow-pipe into a blackish glass. It is composed of silex, 40.0, alumine 20.0, lime 14.5, oxyde of iron 14.5, manganese 2.0, ferruginous silex oxyde of iro 2.0; = 93.00.

2.0: = 93.00.

It differs from the garnet in the direction of its strice and its inflerior specific gravity. It has been found in Siberia and Saxony.—C. Min. A.]

APLONZE. A deep orange-brown mineral, mostly considered to be a variety of the garnet.

APNEU'STIA. (Prom a, and mra, to breathe.)

A defect or difficulty of respiration, such as happens in a cold. &c. Forsius.

a cold, &c. Fossius.

APNGA'. The same.—Galen.

APOCAPNI'SMUS. (From απο, and καπνος, smoke.)

A fumigation.

Apocalua Rsis. (From aπo, and καθαιρω, to purge.) An evacuation of humours. A discharge downwards, and sometimes applied, with little discrimination, to

Voluming.

Aροcaulize'sis. (From αποκαυλξιω, to break transversely.) A transverse fracture.—Hippocrates.

APOCENO'SIS. (From απο, and κενωμ, to evacuate.) 1. A flow or evacuation of any humour.

2. The name of an order in the class Locales of Cullen, which embraces diseases characterized by a superabundant flux of blood, or other fluid, without pyrexia.

Apo'cope. (From απο, and κοπτω, to cut from.) Abscission, or the removal of a part by cutting it off. Apo'crisis. (From απο, and κοινω, to secrete from.) A secretion of superabundant humours.— Hippocrates.

Apogru'sticon. See Apocrustinum.

Apogru'stinum. (From αποκρουω, to repel.) Apocrusticon. An astringent or repellent medicine.

Galen.

APOCEVE'SIS. (From aπο, and κυω, to bring forth.)
Parturition, or the bringing forth of a child.—Galen.
APODACRY'TICA. (From aπο, and δακρυ, a tear)
Medicines which, by exciting tears, remove superfluous humours from the eyes, as onions &c.—Pliny.
APOGEV'SIS. See Agcustia.
APOGEV'SITA. See Agcustia.
APOGEV'SITA. See Agcustia.
APOGEN'SITA. See Agcustia.
APOGENOME'SIS. (From aπογινομαι, to be absent.)
The remission or absence of a disease.—Hippocrates.
APOGLAUCO'SIS. (From aπο, and γλατκος, skycoloured; so called because of its bluish appearance.)
See Glaucoma.

See Glaucoma.

Aro GONUM. (From απο, and γινομαι, to beget.) A living fœtus in the womb.—Hippocrates.

APOLEP'SIS. (From aπo, and λαμδανω, to take from.) An interception, suppression, or retention of urine, or any other natural evacuation.—Hippo.

Apolino'sis. (From ano, and hivov, flax.) The method of curing a fistula, according to Egineta, by the application of raw flax.

Apolinsis. (From ano, and hivo, to release.) The solution or termination of a disease. The removal of

a bandage:—Frotabus.

APOMA/GMA. (From απο, and ματτω, to cleanse from.) Any thing used to cleanse and wipe away filth from sores, as sponge, &c.—Hyppocrates.

APOMATHE MA. (From απο, neg. and μανθανω, to learn.) Hippocrates expresses, by this term, a forget

fulness of all that has been learnt.

was formed by the expansion of a nerve.) A tendinous expansion. See Muscle. APO'NIA. (From a, priv. and πονος, pain.) Free-

dom from pain.

Aponitro'sis. (From απο, and νιτρον, nitre.) The sprinkling an ulcer over with nitre.

Apopalle'sis. (From αποπαλλω, to throw off hastily.) An abortion, or premature expulsion of a feetus.—Hipporates.

Apopalesis. See Apopallesis. Apopalasis. (From aπo, and πηδαω, to jump om.) A luxation.

APOPHLEGMA'SIA. (From ano, and pheyma,

APOPHLEGMA'SIA. (From ano, and prophlegm.) A discharge of phlegm or nucus.

APOPHLEGMA'TIC. (Apophlegmaticus; from the apophlegmaticus) Anonhlegmaticantia; απο, and φλεγμα, phiegm.) Apophlegmatizantia; Apophlegmatizantia 1. Medicines which excite the secretion of mucus from the mouth and nose.

Masticatories.

Errhines.

ROPHLEGMATIZANTIA. See Apophlegmatic. APOPHLEGMATIZONTA. See Apophlegmatic.

APOPHRA'XIS. (From απο, and φρασσω, to interrupt.)

A suppression of the mensural discharge.

A suppression of the mensural discharge.

Apopatha'rma. (From απο, and φθειρω, to corrupt.) A medicine to procure abortion.

Apopthrhe'gma. (From αποφθειρω, to speak cloquently.) A short maxim, or axiom; a rule.

Apo'rhthora. (From αποφθειρω, to be abortive.)

An abortion. APOPHY'ADES. The ramifications of the veins and

arteries .- Hippocrates.

Apo'nevas. (From αποφυω, to proceed from.)
Any thing which grows or adheres to another, as a wart to the finger.

APOPHYLLITE. Ichthyophthalmite. Fisheve

APOPHYLLITE. Ichthyophthalmite. Fish-eye stone. A mineral composed of silex, potassa, and water, found in the iron mine of Utoe, in Sweden. [This mineral occurs in laminated masses, or in

regular crystals, having a strong, and peculiar external lustre, which is intermediate between vitreous and pearly. When exposed to the flame of a lamp it exfoliates. Before the blow-pipe it melts with some difficulty into a white enamel. Its fragments, placed in culty into a white enamel. Its fragments, placed in cold nitric acid, are gradually converted into a whitish, flaky substance. Its powder forms a jelly in nitric or nuriatic acid. It contains silex 51, lime 23, potash 4, water 17. It is lighter and harder than sulphate of barytes, but much less hard than adularia, both of which it may resemble.—CL. Min. A.].

APO'PHYSIS. (From anopus, to proceed from.)

1. In anatomy. Appendix; Probole; Ecphysis; Processus; Productio; Projectura; Protuberantia. A process, projection, or protuberance of a bone beyond a plain surface; as the nasal apophysis of the frontal bone, &c.

2. In botany, this word is applied to a fleshy tuber-cle under the basis of the capsule or dry fruit adhering to the frondose mosses

APOPLE'CTA VENA. A name formerly applied to the internal jugular vein; so called because in apoplexies

it appears full and turgid.—Bartholin.

APOPLE CTIC. (From αποπληζια, an apoplexy.)

APOPLE XV. (Apoplexy, a. f.; from απο, and πλησω, to strike or knock down; because persons, when seized with this disease, fall down suddenly.) A sudden abolition, in some degree, of the powers of sense and motion, the patient lying in a sleep-like state; the action of the heart remaining, as well as state; the action of the neart remaining, as well as the respiration, often with a stertorous noise. Cullen arranges it in the class Neuroses, and order Comata:

1. When it takes place from a congestion of blood,

It is termed Apoplexia sanguinea.

2. When there is an abundance of serum, as in persons of a cold phlegmatic temperament, Apoplexia

scrosa.

3. If it arise from water in the ventricles of the brain, it is called Apoplexia hydrocephalica. See Hy-

drocephalus.
4. If from a wound, Apoplexia traumatica.
5. If from poisons, Apoplexia venenata.
6. If from the action of suffocating exhalations,

Apoplexia suffocata.
7. If from passions of the mind, Apoplexia mentalis
8. And when it is joined with catalepsy, Apoplexia

cataloptica.

Apoplexy makes its attack chiefly at an advanced period of life; and most usually on those who are of a corpulent habit, with a short neck, and large head; and who lead an inactive life, make use of a full diet, or drink to excess. The immediate cause of apoplexy, is a compression of the brain, produced either by an is a compression of the orang produced there of a accumulation of blood in the vessels of the head, and distending them to such a degree, as to compress the medullary portion of the brain; or by an effusion of blood from the red vessels, or of serum from the exhablood from the red vessels of a serum from the characteristic thich fluids are accumulated in such a quantity as to occasion compression. These states, of overdistension and of effusion, may be brought on by whatever increases the afflux, and impetus of the blood in the arteries of the head; such as violent hits of passion, great exertions of muscular strength, severe of passion, great exertions of muscular surengin, sevene exercise, excess in venery, stooping down for any length of time, wearing any thing too tight about the neck, overloading the stomach, long exposure to ex-cessive cold, or a vertical sun, the sudden suppression of any long-accustomed evacuation, the application of any long-accustomed evacuation, the application of the fumes of certain narcotic and metallic sub tances such as opium, alkohol, charcoal, mercury, &c. and by blows, wounds, and other extensal injuries: in short, apoplexy may be produced by whatever deter-mines too great a flow of blood to the brain, or pre-

mines too great a flow of blood to the orain, or prevents its free return first that orage.

The young, and those of a full plethoric habit, are most liable to attacks of the sanguincous apoplexy; and those of a phiegmatic constitution, or who are much advanced in life, to the serous. Apoplexy is sometimes preceded by headache, giddiness, dimness of sight, loss of memory, faltering of the tongue in speaking, numbrase in the extremities, drowsiness, stuper, and nightmane, all denging an affection stupor, and nightnare, all denoting an affection of the brain; but it more usually lappens that, without much previous indisposition, the person falls witzon interprevious manaposition, me person raiss down suddenly, the countenance becomes florid, the face appears swelled and puffed up, the vessels of the head, particularly of the neck and temples, seem tur-gid and distended with blood; the eyes are prominent and fixed, the breathing is difficult and performed with a snorting noise, and the pulse is strong and full. Although the whole body is affected with the loss of sense and motion, it nevertheless takes place often more upon one side than the other, which is called hemiplegia, and in this case, the side least affected with palsy is somewhat convulsed.

In forming an opinion as to the event, we must be guided by the violence of the symptoms. If the fit is of long duration, the respiration laborious and steriorous, and the person much advanced in years, the disease, in all probability, will terminate fatally. In some cases, it goes off entirely; but it more frequently leaves a state of mental imbecility behind it, or terminates in a hemiplegia, or in death. Even when an attack is recovered from, it most frequently returns again, after a short period of time, and in the end proves fatal. In dissections of apoplexy, blood is often found effused on the surface and in the cavities of the brain; and in other instances, a turgidity and disten-tion of the blood-vessels are to be observed. In some cases, tumours have been found attached to different parts of the substance of the brain, and in others, no traces of any real affection of it could be observed.

On an attack of sanguineous apoplexy, all compression should be removed from the neck, the patient aid with his head a good deal raised, and a free admission of cool air allowed. Then blood should be taken freely from the arm or the temporal artery, or the jugular vein; which it may be sometimes necessary to repeat, if the symptoms continue, and the patient is still plethoric; or if blood can less be spared, cupping or leeches may lessen the congestion in the brain. The next object should be thoroughly to evacuate the howels by some active purrative, as calonnel joined with jalap, or with extract of colorynth, or followed by infusion of sense and some neutral self, with a lit-tle tartarized antimony or fineutre of judap repeated every two hours (ill it operates; or a drugph or time-ture of soma and wine of alors, where the bowels are very torpid, may answer the purpose. Stimuluri clysters will also be proper, particularly if the patient cannot swallow, as common salt and syrup of buckthorn, with a proper quantity of gruel, infusion of senua or infusion of colocynth; or a tu pentine clyster I in elderly torpid habits. Cold should then be applied

assiduously to the scalp, the hair being previously shaved, and a blister to the back of the neck; and diaphoretic medicines may be exhibited, avoiding, however, those which contain opium. Sinapisus to the feet may also be useful, particularly if these are cold. If under these means, the sensibility does not gradually return, some of the gentle diffusible stimulants will be proper, as ammonia, mustard, either, camphor, &c.: and at this period, a blister to the scalp may come in By some practitioners emetics are recommended, but their use is hazardous, especially if sufficient evacuations be not premised: and the same may be evacuations or premiument and the same may be observed of sternutatories. In the serous form of the disease, general bieeding is inadmissible, and even the local abstraction of blood should be very sparringly made; the bowels should be kept open, esperingly made; cially by aloetic or mercurial formulæ, but not procially by aloetic or mercurial formule, but not pro-curing profitse discharges; and the other secretions maintained, especially by the use of the diffusible stimulants already mentioned; blisters to the head, and errhines may be here also useful. When apo-plectic symptoms have been occasioned by opinm, or other narcotics, the timely discharge of this by an active emetic will be the most important measure; but in a plethoric habit, bleeding should be premised; subsequently various stimulants may be employed, as subsequently various stimulants may be employed, as ammonia, vinegar, &c. endeavouring to procure a determination to the surface, and rousing the patient from his torpid state. The prevention of the san-guineous form of the disease will be best attempted gumeous form or the disease will be best attempted by abstemiousness, regular moderate exercise, and keeping up the evacuations; an issue or seton may also be useful; but under urgent circumstances, bleed-ing, especially topical, must be resorted to. In leuco-phiegmatic habits, a more nutritious diet will be

APOPNI'XIS. (From αποπνιγω, to suffocate.) A

APOPSY CHIA. (From ωπο, from, and ψυχη, the mind.) The highest degree of deliquium, or fainting,

APO'PTOSIS. (From αποπιπτω, to fall down.) A prolapsus, or falling down of any part through relaxation. - Erotian.

Apore '15. (From απο, and ορεγω, to stretch out.)
A play with balls, in the gymnastic exercises.
Apo'ria. (From α, priv. and προρε, a duct.) Restlessness, uneasiness, occasioned by the interruption of perspiration, or any stoppage of the natural secretions. APORRHI'PSIS. (From απορματω, to cast off.)
Hippocrates used this word to signify that kind of insanity where the patient tears off his clothes, and

casts them from him. APOSCEPARNI'SMUS. (From aπο, from, and σκεπαρ-κίω, to strike with a hatchet.) Deasciatio. A spe-cies of fracture, when part of a bone is chipped off.—

Garraus.

Aposcha'sis. (From aπo, and σχαζω, to scarify.)
Aposchasmus. A scarification. Venesection.—Ηιρ-

[APOSEPEDINE. The products of the fermentation of cheese have been examined by M. Bracconnot, who has shown that the substance, called by Proust who has shown that the substance, called by Irode caseous oxide, has no claim to such a title, and proposes to call it Aposepedine, from απο, and σηπεύων, (result of putrefaction). Το obtain this substance, the curd of skim-milk, spontaneously coagulated, is to be mixed with water, and exposed in an open vessel until the putrefaction has fully obtained its height. By filtration, a liquor is obtained which, on being concentrated by evaporation, yields a product of a very fettid odour, owing apparently to the presence of an oily substance. Towards the close of the evaporation, vapours of acetic acid pass over, and a liquid of the vapours or acent acut pass over, and a liquid of the consistence of syrup remains; which, on cooling, concretes into a granulated, reddish mass like honey, and of a saline bitter taste. Treated by alkohol, it is separated into a soluble and insoluble portion. The latter is the Aposspecium of M. Bracconnot; the former is the cascate of amnonia of Proust.—Webster's Man.

Apositios. A loathing of food. - Gelen.

Apostaios. A loathing of food.—Greek.
APOSPA'SMA. (From αποσπαω, to tear off.) A vio-

flent, fregular fracture of a tendon, ligament, &co-

APOSPHACELI'SIS. (From απο, and σφακελος, a mortification.) Hippocrates uses this word to denote a mortification of the flesh in wounds, or fractures,

a mortineation of the least in vocations, by Interest caused by too tight a bandage.

APUSTASIS. (From aπo, and ιςημι, to recede from.) 1. An abscess, or collection of matter.

2. The coming away of a fragment of bone by frac-

3. When a distemper passes away by some outlet,

Hippocrates calls it an apostasis by exerction.

4. When the morbine matter, by its own weight, falls and settles on any part, an apostasis by settle-

5. When one disease turns to another, an apostasis

APOSTA'XIS. (From αποςαζω, to distil from.) Hippocrates uses this word to express the defluxion or distillation of any humour, or fluid: as blood from the APOSTELUS. An apostle. An ointment and

other things were formerly so designated from some famous inventer; as unguentum apostelorum, because

that the twelve ingredients in it.

APOSTEMA. (Apastema, atis. n.; from αφιςημι, to receda.) The term given by the ancients to abscesses in general. See Abscess.

APOSTEMA TIAI. Those who, from an inward approximate the second of the collection.

abscess, void pus downward, are thus called by Aretæus.

APOSTERI'OMA. (From αποςπριγω, fulcio.) Galen uses this word to denote a rest of a diseased part, a cushion.

TROPHE. (From απο, and ςρεφω, to turn Thus Paulus Ægineta expresses an aversion APO'STROPHE. from.)

APOSYRINGE'SIS. (From απο, and συριγξ, a fistula.) The degeneracy of a sore into a fistula.—

Hippocrates.
APOSY'RMA. (From απο, and συρω, to rub off.)
An abrasion or disquamation of the bones or skin.— Hippocrates.
APOTANEUSIS. (From απο, and τεινω, to ex-

An extension, or elongation, of any member or substance.

of substance. Apotemes'sis. (From  $a\pi o$ , and  $\tau \epsilon \lambda \mu a$ , a bog.) An expurgation of fith, or faces. APOTHE'CA.  $(A\pi o \theta \eta \kappa \eta$ ; from  $a\pi o \tau \iota \theta \eta \mu \iota$ , to reposit.) A shop, or vessel, where medicines are sold,

APOTHECA'RY. (Apothecarius; from aπo, τιθημι, pono, to put: so called from his employ being to prepare, and keep in readiness, the various articles Physician's use; or from απόθηκη, a shop.) In every European country, except Great Britain, the apothecary is the same as we name in England the druggist and chemists. in the Materia Medica, and to compound them for the

APOTHERAPEI'A. (From απο, and θεραπευω, to

APOTHERAPEI'A. (From απο, and 3εραπου», to cure.) A perfect cure, according to Hippocrates. APOTHERAPEU'TICA. (From απολεσαπου», to heal.) Therapeutics. That part of medicine which teaches the art of curing disorders.

APOTHE'RMUM. (From απο, and 3εραμη, heat.) An acrimonious pickle, with mustard, vinegar, and oil.—

APO'THESIS. (From  $a\pi o$ , and  $\tau\iota\theta\eta\mu\iota$ , to replace.) The reduction of a dislocated bone, according to Hip-

pocrates.

APOTHLIMMA. (From απο, and 9λιδω, to press from.) The dregs or expressed juice of a plant.

APOTHRAU'sis. (From απο, and 3ρανω, to break.) The taking away the splinters of a broken bone.

APOTOCUS. (From απο, and τικτω, to bring forth.) Abortive; premature.—Hippocrates.

APOTRE PSIS. (From απο, and τοκπω, to turn from.) A resolution or reversion of a supportugiting tumour.

A resolution or reversion of a suppurating tumour.

Apotropæ'a. (From αποτρεπω, to aver amulet, or charm, to avert diseases.—Foësius. A POZEM. (Apotema. From απο and (Aporema. From ano, and Zew, to

A POZIEM. (Αβροεσία. From απο, and ξεω, 10 boil.) A decoction.

APOZEU'XIS. (From απο, and ξευγνυμι, to separate.) The separation or removal of morbid parts.—

APO'ZYMOS. (From απο, and ζυμη, ferment ) Ferman (γυμη, ferment)

APPARA'TUS. (From appared, to appear, or be ready at hand.) This term is applied to the instruments and the preparation and arrangement of every thing necessary in the performance of any operation, medical, surgical, or chemical.

edical, surgical, or chemical.

Apparatus altus. See Lithotomy.

Apparatus major. See Lithotomy.

Apparatus minor. See Lithotomy.

Apparatus, pneumatic. The discovery of activations.

APPARATUS, PNEUMATIC. The discovery of aériform fluids has, in modern chemistry, occasioned the necessity of some peculiar instruments, by means of which those substances may, in distillations, solutions, or other operations, be caught, collected, and properly managed. The proper instruments for this are styled the pneumatic apparatus. Any kind of air is specifically lighter then any liquid; and, therefore, if not decomposed by it, rises through it in bubbles. On this principle tests the essential part of the apparatus, adapted to such operations. Its principal part is the neeumatic trough, which is a kind of reservoir for the pneumatic trough, which is a kind of reservoir for the liquid, through which the gas is conveyed and caused to rise, and is filled either with water or with quicksilver. Some inches below its brim a horizontal shelf is fastened, in dimension about half or the third part of the trough, and in the water-trough this is provided on its foremost edge with a row of holes, into which, from underneath, short-necked funnels are fixed. The trough is filled with water sufficient to cover the shelf. to support the receivers, which being previously filled with water are placed invertedly, their open end turned down upon the above-mentioned holes, through which afterward the gases, conveyed there and di-rected by means of the funnels, rise in the form of air

In some cases the trough must be filled with quick-silver, because water absorbs or decomposes some kinds of air. The price and specific gravity of that metal make it necessary to give to the quick-silver trough smaller dimensions. It is either cut in marble, or made of wood well joined. The late Karsto has contrived an apparatus, which, to the advantage of saving room, adds that of great conveniency. To dispagage gases, retorts of glass either common

To disengage gases, retorts of glass, either common or tubulated, are employed, and placed in a sand-bath, or heated by a lamp. Earthen, or coated glass retorts, are put in the naked fire. If necessary, they are joined with a metallic or glass conveying pipe. When, besides the aeriform, other fluids are to be collected, the middle or intermediate bottle finds its use; and to prevent, after cooling, the rising of the water from the trough into the disengaging vessel, the tube from the trough into the disengaging vessel, the tube of safety is employed. For the extrication of gases taking place in solutions, for which no external heat is required, the bottle called disengaging bottle, or proof, may be used. For receivers, to collect disengaged airs, various cylinders of glass are used, whether graduated or not, either closed at one end or open at both; and in this last case, they are made air-tight by a stop-per fitted by grinding. Besides these, glass bells and common bottles are employed.

To combine with water, in a commodious way, some gases that are only gradually and slowly absorbed by it, the glass apparatus of Parker is ser-

APPENDI'CULA. A little appendage.
APPENDICULA CÆCI VERMIFORMIS. A A vermicular process, about four inches in length, and the size of a goose-quill, which hangs to the intestinum cacum of the human body.

APERDICULE EPPILOICE. Appendices coli adipose. The small appendices of the colon and rectum, which are filled with adipose substance. See Omentum. APPENDICULA TUS. Applied to leaves, leaf-stalks, &c. that are furnished with an additional organ

for some particular purpose not essential to it; as the Dionwa muscipula, the leaves of which terminate each in a pair of toothed irritable lobes, that close over and imprison insects; as also the leaf of the Ne-pentha distillatorea, which bears a covered pitcher full of water; the leaves of our Utriculum, which have numerous bladders attached to them which seem to numerous bladder's attached to them which seem to secrete air and float them; and the petiolus of the Dipsacus pilosus, which has little leaves at its base. APPLINDLX. 1. An appendage; that which belongeth to any thing.

2. See Apophysis.
ATTLE. See Pyrus.

Apple, actd of. See Malic acid. Apple, pine. See Bromelia ananus. Apple, thorn. See Datura stramonium. Appreyiate affinity. See Influvity intermediate. Appropriate affinity. See Affinity intermediate. APRICOT. See Franus armenuca. APVREXIA. (From a, priv. and mupeta, a fever.) Apprexia. Without fever.—The intermission of lever-

APYRI'NUS. (From a, priv. and πυρην, nucleus, a kernel.) Without a kernel.

APYRIME PLANTE. Plants without kernels. The

name in Gerard's arrangement of a class of plants.

APYROUS. Bodies which sustain the action of a strong heat for a considerable time, without change or figure or other properties, have been called apyrous; but the word is now very seldom used. It is synony

but the word is now mous with refractory.

A'QUA. See Water.

Water impregnated with fixed AQUA See Frace. Water impregnated with fixed air. This is liquid carbonic acid, or water impregnated with carbonic acid. It sparkles in the glass, has a pleasant acidulous taste, and forms an excellent It diminishes thirst, lessens the morbid heat of the body, and acts as a powerful dimetic. It is also an excellent remedy in increasing irritability of the stomach, as in advanced pregnancy, and it is one

of the best anti-emetics which we possess.

AQUA ALUMINIS COMPOSITA. Compound solution
of alum, formerly called aqua aluminosa bateana.

See Liquor aluminis compositus.

AQUA AMMONIÆ ACETATÆ. See Ammonia acetatis liquor

AQUA AMMONIÆ PURÆ. See Ammonia. AQUA ANETI. See Anethum graveolens.

AQUA CALCIS. See Celois liquor. AQUA CARUI. See Carum carui.

AQUA CINNAMOMI. See Laurus cinnamomum. AQUA CŒLESTIS. A preparation of copper.

AQUA CUPRI AMMONIATI. See Cupri ammoniate

AQUA CUPRI VITRIOLATI COMPOSITA. This pre-paration of the Edinburgh Pharmacopæia is used externally, to stop his morrhages of the nose, and other parts. It is made thus: B. Cupri vitriolati, Aluminis, sing. 3ss. Aque pura, 3iv. Acidi vitriolici, 3ij. Boil the salts in water until they are dissolved; then filter the liquor and add the acid.

filter the liquor and add the acid.

AQUA DISTILLATA. Distilled water. This is made by distilling water in clean vessels, until about two-thirds have come over. In nature, no water is found perfectly pure. Spring or river water always contains a portion of saline matter, principally sulphate of lime; and, from this impregnation, is unfit for a num ber of pharmaceutic preparations. By distillation, a perfectly pure water is obtained. The London College directs ten gallons of common water; of which, first distil four pints, which are to be thrown away; then distil four gallons. This distilled water is to be kept in glass vessels. See Water.

then must for games. The distinct water is to be kept in glass vessels. See Water.

AQUA FORTIS. This name is given to a weak and impure nitric acid, commonly used in the arts. It is impure miric acid, commonly used in the arts. It is distinguished by the terms double and single, the single being only half the strength of the other. The artists who use these acids call the more concentrated acid, which is much stronger even than the double aqua fortis, spirit of nitre. This distinction appears to be of some utility, and is therefore not improperly retained by chemical writers. See Netric acid.

AQUA KALI PREPARATI. See Potassa subcarbonatiis linux.

tis liquor.

AQUA KALI PURI. See Potassæ liquor. AQUA LITHARGYRI ACETATI. See Plumbi acetatis

liquor. AQUA LITHARGYRI ACETATI COMPOSITA. Plumbi acetatis liquor dilutus.

Aqua marine. See Bergi.
Aqua mentile piperite. See Mentha piperite.
Aqua mentile sative. See Mentha viridis.
Aqua mentile viridis. See Mentha viridis.

AQUA DENTIFE VIRIOUS. See Justice virius.

AQUA DE NAPOLI. See Agenta.

AQUA PIMENTE. See Meather Integram.

AQUA PELEGII. See Meather Integram.

AQUA RECHA. Agen regadus. This acid, which is a meature of the minic and revisally acids, lately called vitte manife, and any althoring was former. a mixture of the many and how chlorine, was formerly called nitro muriane, and now chlorine, was formerly called nqua regalis, because it was, at that time, the only

acid that was known to be able to dissolve gold. See

AQUA ROSÆ. See Rosa centifolia.

AQUA STYPTICA. A name formerly given to a combination of powerful astringents, viz. sulphate of copper, sulphate of alum, and sulphuric acid. It has been applied topically to check hæmorrhage, and, been applied topically to theek memorringe, and, largely dulted with water, as a wash in purnlent oph-thalmia. See Agua cupri extrabati composita. Aqua Toffania. See Aquatta. Aqua viva. Ardent spirit of the first distillation

has been distinguished in commerce by this name.

AQUA ZINCI VITRIOLATI CUM CAMPHORA. Aqua triolica camphorata. This is made by dissolving vitriolica camphorata. half an ounce of sulphate of zinc in a quart of boiling water, adding half an ounce of camphorated spirit, and filtering. This, when properly diluted, is a useand filtering. This, when properly diluted, is a useful collyrium for inflammations of the eyes, in which there is a weakness of the parts. Externally, it is applied to the parts. plied by surgeons to scorbutic and phagedenic ulcera-

AQUE DISTILLATE. Distilled waters. These are made by introducing vegetables, as mint, penny royal, &cc. into a still with water; and drawing off as much as is found to possess the properties of the plants. London College orders the waters to be distilled from dried herbs, because tresh are not ready at all times of the year. Whenever the fresh are used, the weights are to be increased. But whether the fresh or dried are to be increased. But whether the fresh or dried herbs are employed, the operator may vary the weight according to the season in which they have been pro-duced and collected. Herbs and seeds, kept beyond the space of a year, are improper for the distillation of waters. To every gallon of these waters, five ounces, by measure, of proof spirit are to be added.

AQUE MINERALES. See Mineral waters.
AQUE STILLETITE SIMPLICES. Simple distilled

waters

AQUE STILLATITIE SPIRITUOSE. Spirituous distilled waters, now called only spiritus; as spiritus pulegii.

AQUÆDUCT. Aquæductus; a canal or duct, so named because it was supposed to carry a watery

AQUEDUCT OF FALLOPIUS. A canal in the petrous cortion of the temporal bone, first accurately described by Fallopius.

Aquatic nut. See Trapa natans.

AQUATICE PLANTE. Aquatic plants, or such as grow in or near water. A natural order of plants. AQUATICUS. (From aqua, water.) Aquatic;

or helonging to the water.

AQUEOUS. (Aquosus, watery.) Of the nature of,

or resembling water.

AQUEOUS HUMOUR. Humor Aquosus. The very limpid watery fluid, which fills both chambers of the

tempu wavi, eye. See Eye.

AQUETTA. The name of a liquid poison, made use of by the Roman women, under the Pontificate of Alexander VII. It was prepared and sold in drops, by Tophania, or Toffania, an infamous woman who rethese drops obtained the name of Jana Toffania Aqua della Toffana ; and also . Iqua di Napoli. poison is said by some to be a composition of arsenic,

and by others of opium and cantharides.

AQUIFO LIUM. (From acus, a needle, and folium.) a leaf; so called on account of its prickly leaf.) See

Ilex cquifolium.

A'QUILA. (Aeros, the eagle.) 1. A species of the

extensive genus Falco of ornithologists.

2. Aquita, among the ancients, had many other epithets joined with it as rubra, salutifera, volans, &c.

3. A chemical name formerly used for sal-attumoniac. mercurius præcipitatus, arsenic, sulphur, and the phi-

AQUILA ALBA. One of the names given to calomel by the ancients. See Hydrargyri submurias.

AQUILA ALBA PHILOSOPHORUM. Aqua alba gany-

Sublimated sal-ammoniac.

AQUILA CŒLESTIS. A panacea, or cure for all diseases; a preparation of mercury.

AQUILA VENERIS. A preparation of the ancients, made with verdigris and sublimed sal-ammo

AQUILE LIGNUM. Eagle-wood. It is generally sold for the agallochum. See Lignum aloes.

AQUILE VENE. Branches of the jugular veins, which are particularly prominent in the cagle. AQUILE GIA. (From agaae, water, and lego, to gather; so called from the shape of its leaves, which

retain water.) The herb columbine.

1. The name of a genus of plants in the Linnæan system. Class, Polyandria; Order, Pentagymia.

2. The name in the pharmacopeias, for the colum-

bine. See Aquitegia vulgaris.

A THE SYSTEM VILGARIS. The systematic name of the AQUILEGIA VULGARIS. The systematic name of the columbine. The seeds, flowers, and the whole plant, have been used medicinally, the first in exanthematous diseases, the latter chiefly as an antiscorbuit. Though

retained in several foreign pharmacopeias, their uti-lity seems to be not allowed in this country.

AQUILI'NA. (From Aquila, an eagle; so called from the resemblance of its leaves to eagle's wings.) trivial name of a species of pteris. See Pteris.

AQUULA. (Diminutive of aque.) A small quantity of very fine and limpid water. This term is applied to the pellucid water, which distends the capsule of the crystalline lens, and the lens itself. Paulus
Ægineta uses it to denote a turnour consisting of a fatty substance under the skin of the eyelid.

Arabic gum. See Acacia gummi.

A'RACA MIRA. (Indian.) A shrub growing in the Brazils, the roots of which are diuretic and antidy-

senteric.

ARA'CHNE. (From arag, Hebrew, to weave; or from apaxyn, a spider.) The spider.

ARACHNOID. (Arachnoides; from apaxyn, a spider, and ardos, likeness; so named from his resemblance to a spider's web.) Web-like.

ARACHNOID MEMBRANE. Membrana arachnoides.

1. A thin membrane of the brain, without vessels and preves situated between the dura and pia matter, and

nerves, situated between the dura and pia mater, and surrounding the cerebrum, cerebellum, medulla ob-

surrounding the cerebrain, cerebrain, meaning ob-longata, and medulla spinalis.

2. The term is also applied by some writers to the tunic of the crystalline lens and vitreous humour of

An Indian spirituous liquor. ARACK. (Indian.) prepared in many ways, often from rice; sometimes from sugar, fermented with the juice of cocoa-nuts; frequently from toddy, the juice of which flows from the cocoa-nut tree by incision, and from other sub-

A'RADOS. (From αραδεω, to be turbulent.) Hippocrates uses this term to signify a commotion in the stomach, occasioned by the fermentation of its contents. ARÆO TICA. (From αραξω, to rarefy.) Things which rarefy the fluids of the body.

ARA'LIA. (From ara, a bank in the sea; so called because it grows upon the banks near the sea.) The name of a genus of plants in the Linnaan system. Class, Pentandria; Order, Pentagynia. The berry-bearing angelica. Of the several species of this tree, the roots of the nudicaulis, or naked-stalked, were brought over from North America, where it grows, and will be a consequent to the roots of the nudicaulis. sold here for sarsaparilla.

ARA'NEA. (From αραω, to knit together.)

ARA NEAL (TION Apact, or Insects.

1. The name of a genus of insects.

2. The spider.

ARA'NTIUS, JU'LIUS CESAR, a celebrated anatomist and physician, born at Bologena, about the year 1550. After studying under Vesalius, and others, he graduated and became professor there, and died in 1589. In his first work, "On the Human Fertus," he described the foramen ovale, and ductus arterious, and corrected several errors in the anatomy of the gravid uterus, which had been generally derived from the examination of brutes. He afterward showed that the blood, after birth, could only pass from the right to the left side by the heart through the vessels of the lungs, thus preparing for the discovery of the circulation of Harvey. A Treatise on Tumours, and a Commentary on part of Hippocrates, were also written by him

ARA'TRUM. The plough. A plant 'ras this for a trivial name, because its roots are found to hinder the plough: hence remora aratri See Ononis spinosa.

ARBOR. A tree. 1. In botany, a plant, consisting of one trunk which rises to a great height, is very durable, woody, and divided at its top into branches which do not perish in the winter; as the oak, elin, ash, &c.

D. In anatomy, it is applied to parts which ramify

like a tree, as the Arbor vitæ of the cercbellum.

3. In chemistry, applied to crystallizations which ramify like branches.

Arbor Diana. See Silver.

Arbor vita. The tree of life.

1. The cortical substance of the cerebellum is so disposed, that, when cut transversely, it appears ramified like a tree, from which circumstance it is termed arbor vite.

2. The name of a tree formerly in high estimation in

medicine. See Thaya occidentales.

Arbores. One of the natural divisions or families of plants. Trees consist of a single and durable woody trunk, bearing branches, which do not perish in the

winter, as Tilia, Frazinas, Pyrus, &c.

ARBUSTIVA. (From arbustum, a copse of shrubs or trees.) The name of an order of plants in Lin-

næus s natural method.

ARBUTHNOT, JOHN, a physician, born in Scotland soon after the restoration, celebrated for his wit and learning. He graduated at Aberdeen, and settling in this metropolis, had the good fortune to be at Epsom, when Prince George of Denmark was taken ill there; whom, having restored to health, he was appointed whom, naving restored to health, he was appointed physician to Queen Anne, but never got into very extensive practice. His chief medical publications were "On the Choice of Aliments," and "On the Effects of Air upon Ruman Bodies." He died in 1735.

A'RBUTUS. The name of a genus of plants in the Linnsean system. Class, Decardria; Order, Mo-

nogynia.
Arbutus, trailing. See Arbutus uva ursi.
ARBUTUS UNEDO. Amatzquitl; Unedo papyracea.
A decoction of the bark of the root of this plant is recommended in fevers.

ARBUTUS UVA URSI The systematic name for the officinal trailing Arbutus; Bear's berry; Bear's whortle-berry; Bear's whorts; or Bear's bilberries; called The systematic name for the also Vaccaria. Arbutus—caulibus procumbentibus, foliis integerrimis, of Linuwus. This plant, though employed by the ancients in several diseases, requiring adstringent medicines, had almost entirely fallen into disuse until the middle of the present century, when it first drew the attention of physicians, as a useful remedy in calculous and rephritic complaints, which diseases it appears to relieve by its adstringent qualities.

A'RCA ARCANORUM. The mercury of the philo-

sophers.

A'RCA CORDIS. The pericardium.
ARCA'NUM. A secret. A medicine, the preparation or efficacy of which is kept from the world, to enhance its value. With the chemists, it is a thing secret and incorporeal; it can only be known by experience, for it is the virtue of every thing, which operates a thousand times more than the thing itself.

ARCANUM CATHOLICUM. Bezoar, plantain, and colchicum.

formerly given to the combination of potassa ARCANUM DUPLEX. and sulphuric acid, more commonly called vitriolated tartar, and now sulphate of potassa.

ARCANUM TARTARI. The acetate of potassa.

ARCE'RTHOS. Juniper.
ARCHÆ'US. 1. The universal archæus, or principle of Van Helmont, was the active principle of the material world. See Vis vitæ.

2. Good health.

A'RCHE. (From αρχη, the beginning.) The earliest stage of a disease.

ARCHE NDA. (Arabian.) A powder made of the leaves of the ligustrum, to check the fætid odour of the feet

the feet.

Archeo'stis. White briony.

[ARCHER, JOHN, M. D. of the state of Maryland, a celebrated practitioner of medicine. Many contributions of ms, on various subjects of medical ecience, are to be found in the New-York Medical Repository. He was the first who introduced the Seneca snake-root (polygala senega) as a remedy in Croup. He died in 1814. A.]

Archit. See Lichen rocella.

[There are several lichens which abound in colouring matter; of these the most remarkable is the lichen.

ing matter : of these the most remarkable is the lichen cocclla, which grows in the south of France, and in the Canary Islands; and which affords the beautiful. but perishable blue, called litmus, archil, or turnsols.

The moss is dried, powdered, mixed with pearlash and urine, and allowed to ferment, during which it becomes red and then blue; in this state it is mixed with carbonate of potases and chalk, and dried. It is used for dying silk and ribands; and by the chemists as a most delicate best existent to the blue colour is restored by passing from blue to red; the blue colour is restored by alkalies, which the which the red; the blue colour is restored by alkalies. alkalies, which do not render it green. Crubear appears to be a similar preparation of the licken tartareus.—Webster's Man. Chem. A.]
Archillo. See Lichen ravella.

ARCHITHOLOS. (From apprential and Solos, a chamber.) The sudatorium, or principal room of the ancient baths.

ARCHOPTO MA. (From  $a\rho\chi_{05}$ , the anus, and  $\pi\iota\pi$ - $\tau\omega$ , to fall down.) A bearing down of the rectum, or

prolapsus ani.

A'RCHOS. (From αρχος, an arch.) The anus; so called from its shape. (From arcto, to make narrow.)

ARCTA'TIO. (Fro

1. A constipation of the intestines, from inflammation.

2. A preternatural straitness of the pudendum mu-

A'RCTIUM. (From аркто5, a bear; so called from its roughness.) The name of a genus of plants in the Lunnaran system. Class. Synagenesia; Order, Polygamia aquodis. The burdock.

ARCTIUM LAPPA. The systematic name for the herb clot-bur, or burdock. Bardana: Arctium; Britannica; Haphis. The plant so called in the plantacopailas, is the Arctium—fulis cordatis, incemibus, petiolatis, of Linaus. It grows wild in uncultivated grounds. The seeds have a bitterish subacrid teste: they are recommended as very efficacions directes, given either in the form of emulsion, or in powder, to the quantity of a drachm. The roots taste sweetish, with a slight austerity and bitterness: they are es-teemed aperient, diaretic, and sudoritic; and are said to act without irritation, so as to be safely ventured upon in acute disorders. Decoctions of them have been used in rheumatic, gouty, venereal. and other disorders; and are preferred by some to those of sar-saparilla. Two ounces of the roots are to be boiled in three pints of water, to a quart; to this, two drachms of sulphate of petassa have been usually added. Of this decoction, a pint should be taken every day in scorbutic and rheumatic cases, and when intended as a diuretic, in a shorter period.

ARCTIZITE. The foliated species of scapolite.

See Scapolite.
ARCTU'RA. (From arcto, to straiten.) flammation of the finger, or toe, from a curvature of the

ARCUA'LIA. (From arcus, a bow.) Arcualis. The sutura coronalis is so named, from its bow-like shape; and, for the same reason, the bones of the sin-

ciput are called arcualin ossai.— Bartholin.

ARCUATIO. (From arcus, a bow.) A gibbosity of the fore-parts, with a curvation of the sternum, of the tibia, or dorsal vertebra. - Avicenna.

A'RCULE. (A dim. of arca, a chest.) The orbits or sockets of the eyes.

A'RDAS. (From αρδυω, to defile.) Filth, excrement, or refuse.—Hippocrates.
ARDENT. (Ardens; from urdeo, to burn.) Burning hot. Applied to fevers, alkohol, &cc.
ARDOR. (Ardor, oris. m.; from ardeo, to burn.)

A burning heat. ARDOR FEBRILIS. Feverish heat.

ARDOR URINE. Scalding of the urine, or a sense of heat in the urethra.

ARDOR VENTRICULI. Heartburn.

AKBOK VESTRICULI. Heartburn.
A'REA. I. An empty space.
2. That kind of baidness where the crown of the head is left naked, like the tonsure of a monk.

The name of a genus of plants of the ARE CA. class Palmæ.

An inferior kind of nutmeg ARECA INDICA.

ARECA INDICA. An interior kind of nutting, ARECAN. (From apryo, to help; so called from its valuable qualities). A resolvent ointment. AREMA. Sand, or gravel. ARENA'MEL. (From arena, sand; so called because it was said to be procured from sandy places.). Arenamen. Bole-armenic.

ARENA'TIO. (From arena, sand.) Saburation, or the sprinkling of hot sand upon the bodies of pa-

or the sprinking of not said upon the bodies of partients.—Baccius do Thermis.

[Arendature. The same as Arendate; both of which are synonymous with Epidote. A.]

ARENDATE. See Epidote.

ARENDATE. (From area, to dry up.) A sort of ancient cupping glasses, used without searifying.

ARE OLA. A diminutive of area, a yout space.)

cient cupping-glasses, used without scarifying.

AREOLA. 'A diminuity of area, a void space.)

A small red or brown circle, which surrounds the nipples of femous. During and after pregnancy, it becomes considerably larger.

AREOMETER. See Hydrometer.

AREOMETER. See Hydrometer.

ARETEROTORS. See Arytenoides.

ARETEROTORS. See Arytenoides, a physician, who practised at Rome, but at what period is uncertain, though the most probable opinion places him between the reigns of Vespasian and Advian. Eight books of his remain. 'On the Causes, Signs, and Method of treating acute and chronic Diseases,' written in the Greek language, and admired for their pure style, and luminous descriptions, as well as the judicious practice generally recommended. He was partial to the use of hellebore and other drastic medicines; and appears to have been among the first to recommend pears to have been among the first to recommend cantharides for blistering the skin.

ARETE. (Ascr., virtue.) Hippocrates uses this word to mean corporeal or mental vigour.

Aretes. A pessary, invented by Ægineta.

ArgoL. Argol. Crude tartar, in the state in which it is taken from the inside of wine-vessels, is

known in the shops by this name.

Argasy'lus. (From agogs, a serpent; which it is said to resemble.) The plant which was supposed to produce gum-ammoniac. See Heracleum gummi-

A'RGEMA. (From apyos, white.) Ar small white ulcer of the globe of the eye.-Argemon. A ve.—Erotianus.

Argentate of ammonia. Fulminating silver.
[This mineral has a laminated or rather slaty struc-

twe. Its laming or layers, often curved or undulated, ere seldom perfectly parallel; but their surface has almost always a pearly lustre, somewhat shining. According to Bournon, these lamings are composed of minute rhombs, whose summits are so deeply trun-cated perpendicularly to the axis, that only a very thin portion of the rhomb remains. Indeed this mineral portion of the rhomb remains. Indeed this mineral cometimes presents the primitive rhomb. It is translucent, at least at the edges; and its colour is white, snaded with gray, green, or red. It is easily broken, and its spec. grav. is 2.64.

It is nearly a pure carbonate of lime, often containing a little oxide of iron or manganese. Hence at a red heat it often becomes reddish brown.—CL.

Min.

Min. A.]
ARGENTI NITRAS. Argentum nitratum; Caustieum lunare. Nitrate of silver. Take of silver an
ounce; nitric acid, a fluid ounce; distilled water, two
fluid ounces. Mix the nitric acid and water, and disfolve the silver therein on a sand bath; then increase
the heat gradually that the nitrate of silver may be
dried. Melt the salt in a crucible over a slow fire
until the water being evaporated, it shall cease to
boil; then pour it quickly into moulds of convenient
chape. Its virtues are corrosive and astringent. Infernally it is exhibited in year, small quantities in eniternally it is exhibited in very small quantities, in epilepsy, chorea, and other nervous affections, and exterrelay, choice, and other nervous directions, and exter-nally it is employed to destroy fungous excrescences, callous ulcers, fistulas, &c. In the latter disease, it is used as an injection; from two grains to three being dissolved in an ounce of distilled water. ARGE/NTUM. (Argentum, i. m.; from copyos.

ARGE'NTUM. (Argentum, i. m.; from apyos. white, because it is of a white colour.) Silver. See Silver. See

ARGENTUM FUSUM. Crude mercury.
ARGENTUM MOBILE. Crude mercury

Argentum nitratum. See Argenti nitras.
Argentum vivum. See Mercury.
A'rges. (From apyos, white.) A serpent, with a

A'RGES. (From apyos, white.) A serpent, with a whitish skin, deemed by Hippocrates exceedingly

ARGILLA. (Argilla, c. f.; from apyos, white.)
Argil. White clay. See Alumina.
ARGILLAVEOUS. Of or belonging to argilla, or aluminous earth. See Alumina.

Argillaceous earth. See Alumina.

Argillacous schistus. See Clay-slate.
ARGILLITE. See Clay-slate.
[ARGILOLITE. This mineral often strongly resembles certain varieties of compact limestone, or calcareous marl. Its texture is sometimes porous, and sometimes compact, or even slaty. Its fracture is dull and earthy, sometimes splintery or conchoidal. In hardness, also, it differs little from indurated marl, or the softer varieties of compact limestone, and is some times nearly friable. Its particles are sufficiently hard to scratch iron, although its masses may be cut by a

It adheres but slightly to the tongue, and yields an argillaceous odour when moistened. In water it gradually crumbles, but never forms a ductile paste. It is opaque; and its colour is gray, often tinged with yellow or blue; also rose, or pale red, brown, or brownish red, and sometimes greenish. It very often presents white, brown, or greenish spots, nearly round, and is sometimes striped

It hardens by exposure to heat, but is generally infusible by the blow-pipe: some varieties melt at their surface. It does not effervesce with acids, by which it is distinguished from those minerals which it most re-

Claystone seems to approach very near to jasper, or petrosilex, in a state of decomposition, and sometimes to tripoli.—Cl. Min. A.]

ARGYRI'TIS. (From apyupos, silver.) Litharge, spume of silver. A kind of earth was formerly named, which is taken from silver mines, and is be-

spangled with many particles of silver.

ARGYRO'COME. (From apyopos, silver, and κομη, hair.) A species of gnaphalum or cudweed was so named from its white silvery floscules.

ARGYROLI'BANOS. The white olibanum.

was so named from us wince suvery the season. ArgyroLi's anos. The white olibanum. Argyro'Prora. An antidote, in the composition of which there is silver. ARGYROTEOPHE'MA. (From aργος, white, and τροφημα, food.) A white cooling food, made with milk. Milk diet.—Galen.

milk. Milk diet.—Gaten.

Arheumati's του. (From a, neg. and δευματιζω, to be afflicted with rheums.) Not being afflicted with

ARICY'MON. (From apt and kvw, to be quickly impregnated.) A woman who conceives quickly and

ARILLUS. (From arère, to be dry or parched.) The seed-coat or tunic of the permanent husk that invests a seed, which drying fails off spontaneously. It is a peculiar membrane, thick, and loosely surrounds the seed.

The varieties of arilli are,

1. The succulent, pulpy; like a berry in Evonymus

It is the Succession property in the current and Latia.
2. Cartiloginous; in Coffea Arabica.
3. Dimidiate, half round; as in Taxus baccata.
4. Lacerate, cut-like; as in the mace of the Myris-

tica moschata. 5. Reticulate, net-like, surrounding the seed like a net; as in the Orchis tribe.

Tricuspid; as in Malva coromandiliana.

7. Hirsule, hairy; as in January coronnantana.

8. Villous; in Geranium dissectum.

ARISTA. (From area, to dry.) The awn; a sharp beard, or point, or bristle-like filament, which proceeds from the husk or glume of grasses. Its distributions are in the husk or glume of grasses. tinctions are into

1. Naked, without villi; as in Stipa arguens and

2. Plumose, having white villi; as in Stipa pennata.
3. Straight, as in Bromus secalinus, and mollis.
4. Geniculate, having a knee-like bend; as with

Avena sativa.

5. Recurved, bent back; as in Holcus lanatus, and Agrostis canina

Agrostis canina.
6. Tortile, twisted like a rope; as in Agrostis rubra, and Aira montana.
7. Terminal, fixed to the apex of the husk: it is so in Agrostis miliacea.
8. Dorsal, fixed to the back or outward part of the husk; as in Agrostis canina; Bromus; Alopecuris.
9. Uncinate, hooked; as in Panicum hirtellum.
ARISTALTHEA. A. (From aprox, best, and abdata, the altheau.) The common marsh-mallow. See Althe althæa.) T

ARISTATUS. (From arista, the awn.) Awned. Applied to leaves, leaf-stalks, &c. when terminated by a long rigid spine, which in a leaf does not appear to the stalk of the stalk as a contraction. In Galium aristatum, the leaf-stalk

ARISTOLO'CHIA. ARISTOLOCHIA. (Aristolochia, e. 1.; Iromequeroros, good, and λοχια or λοχια, parturition; so called because it was supposed to be of sovereign use in disorders incident to chid-birth.) I. The name of a genus of plants in the Linnaan system. Class, Gynaudra; Order, Hexandria.

2. The pharmacopoial name of the long-rooted birthwort. See Aristolochia longa.

ARISTOLOCHIA ANGUICIDA. Snake-killing birthwort See Aristolochia Longuero Geometricalis. (Aristolochia,

birthwort See Aristolochia longa.

Aristolochia Anguicida. Snake-killing birthwort. Aristolochia—foliis cordatis, acuminatis; caule volubili, fructicoso; pedunculis solitariis; etipulis cordatis, of Linnaus. The juice of the root of this plant has the property of so stupitying serpents, that they may be handled with impunity. One or two drops are sufficient; and if more be dropped into the mouth, they become convulsed. So ungrateful is the smell of the root to those reptiles, that it is said they immediately turn from it. The juice is also esteemed as a preventive against the effects usually produced by the bite of venomous serpents.

produced by the bite of venomous serpents.

ARISTOLOCHIA CLEMATITIS. Aristolochia tenuis. The systematic name of the Aristolochia outgaris of some pharmacopeias. An extract is ordered by the Wittemberg Pharmacopeia, and the plant is retained in that of Edinburgh. It is esteemed as possessing

antipodagric virtues.

antipodagie virtues.

Aristolochia paracea. See Fumaria bulbosa.

Aristolochia Longa. The systematic name for the aristolochia of our pharmacopeias. Aristolochia—foliis cordatis, petiolatis, integerrimis, obtustus-culis; caule infirmo, floribus solitariis. The root of this plant only is in use; it possesses a somewhat aromatic smell, and a warm bitterish taste, accompanied with a slight degree of pungency. The virtues ascribed to this root by the ancients were very conciderable; and it was frequently employed in various siderable; and it was frequently employed in various diseases, but particularly in promoting the discharge of the *lochia*; hence its name. It is now very rarely used, except in gouty affections, as an aromatic stimulant.

ARISTOLOCHIA ROTUNDA. The root of this species of birthwort, Aristolochia—foliis cordatis, subsessibus, obtusis; caude infirmo; floribus solitariis, of Linneus; is used indiscriminately with that of the aristolochia longa. See Aristolochia longa.

ARISTOLOCHIA SERPENTARIA. The systematic

ARISTOLOCHIA SERPENTARIA. The systematic name for the Serpentaria virginiana of the pharmacopeias. Aristolochia; Colubrina virginiana; Piperina; Viperina virginiana; Piperina; Viperina virginiana; Pestilochia; Contrayerva virginiana. Virginian snake-root. The plant which allords this root is the Aristolochia-foliis cordato oblongis planis; caulibus infirmis fiexusois teretibus; foribus solitariis. Caulus geniculata valde nodosa. Flores ad radicem of Linnaus. Snake-root has an aromatic smell, approaching to that of valerian, but more agreeable; and a warm, bitterish, pungent taste. It was first recommended as a medicine of extraordinary power, in counteracting the poisonous effects of the bites of serpents; this, however, is now wholly disregarded: but as it possesses tonic and antiseptic virtues, and is generally however, is now Willow disregation. Out as in possesses tonic and antiseptic virtues, and is generally admitted as a powerful stimulant and diaphoretic, it is employed, in the present day, in some fevers where these effects are required. A tinctura is directed both by the London and Edinburgh Pharmacopæias.

ARISTOLOCHIA TENUIS. See Aristolochia clematitis.

ARISTOLOCHIA TRILOBATA. Three-lobed birthwort

ARISTOLOCHIA TRILOBATA. The root, and every part of this plant, Aristolochia-foliis trilobis, caule volubili, floribus mazimis of Lin-neus, is diuretic, and is employed in America against

the bite of serpents.

ARISTOLOCHIA VULGARIS. See Aristolochia cle-

ARISTOPHANEI'ON. (From Aristophanes, its inventor.) The name of an ancient emollient plaster, composed of wax, or pitch.—Gorraus.
[ARK-TIZIT. This mineral is otherwise called Wernerite, after the celebrated German mineralogist

The Wernerite, a rare mineral, occurs in eight-sided risms, terminated by four-sided summits, whose frees prisms, terminated by four-sided summins, whose rices and many or make the many of the summing form, with the alternate lateral planes on which they Much caution is necessary in regulating the dose, as

stand, an angloof about 1210. Or it may be called a four sided prism, truncated on its lateral edges. The primitive form appears to be a quadrangular prism, with square bases. It also occurs in irregular grains.

The Wernerite strikes fire with steel, but is scratched

by feldspar. Its fracture is both imperfectly foliated and uneven, with a moderate lustre, a little pearly or

resinous. Its specific gravity is 3.60.
It is usually more or less translucent; and its colour is greenish gray, or olive green, and sometimes white.
The surface of the crystals sometimes has the lustre and aspect of an enamel.

Before the blow-pipe, it froths and melts into an opaque, white enamel. A n.can of two an dyses, by John, gives silex 45.5, alumne 33.5, lune 13.22, oxide

of iron 5.75, oxide of manganese 1.47=99.44.

Its mode of fusion by the blow-pipe, and its imperfectly foliated structure, may serve to distinguish it from most minerals which it resembles.

This mineral is sometimes in tabular masses, but most commonly in crystals which are easily recognised. The general form of these crystals, (certain small faces being neglected,) is a very oblique rhomb, or rather four-sided prism, so flattened that some of its edges become thin and sharp, like the edge of an axe. The primitive form is a four-sided prism, the bases of which are parallelograms, with angles of 101° 30′, and 78° 30′. The integrant particles are oblique, triangular prisms. M. Haüy has described five secondary forms.—Cl. Min. A.]

ARMA. (Arma, orum. pl. n. Arms.) In botany, applied to a species of armature or offensive weapons. They are one of the seven kinds of fulcra, or props of plants enumerated by Linneaus in his Delineatic plants. They are pungent points in some part of a plant. In the present day, arma is used as a generic term embracing the acuteus, furca, spina, and sti-This mineral is sometimes in tabular masses, but

term embracing the aculeus, furca, spina, and sti-

ARMATU'RA. 1. See Arma.
2. The amnios or internal membrane which sur-

rounds the fœtus. ARMATURE. See Arma. A'RME. (From αρω, to adapt.) 1. A junction of

A'RME. (From aρω, to adapt.) 1. A junction of the lips of wounds.

2. The joining of the sutures of the head.
[ARMINIAN STONE. Quartzy or calcareous substances, penetrated by the azure carbonate of copper, have been called by this name, the copper giving a most beautiful blue colour. A.]

ARMI'LLA. (Diminutive of armus, the arm.) The round ligarent which confines the tendous of the

round ligament which confines the tendons of the

carpus.

ARMORA'CIA. (From Armerica, the country whence it was brought.) See Cochlearia Armoracia.

ARMSTRONG, JOHN, a Scotch physician, born in 1709, who, after graduating at Edinburgh, settled in London, but met with little success, having distinguished himself less in his profession than as a poet, particularly by his "Essay on the Art of Preserving Health," in blank verse. He afterward attended the army in Germany, which brought him more into notice as a physician. He attained the age of seventy, and died in pretty good circumstances. His professional publications are not of much noce; the principal one is entitled "Medical Essays." He is supposed, however, to have contributed materially to a useful Treatise on the Diseases of Children, published by his brother George, who, after practising many years as an apothecary, obtained a diploma in medicine. carpus.
ARMORA'CIA. an apothecary, obtained a diploma in medicine. A'RNICA. (Arnica, æ. f. Αρνικη; from

an apothecary, obtained a diploma in medicine.

A'RNICA. (Arnica, w. f. Aprica), from aos, a lamb; because of the likeness of the leaf of this plant to the coat of the lamb.) Arnica. 1. The name of a genus of plants in the Linnean system. Class, Sym genesia; Order, Polygamia superflua.

2. The pharmacopeial name of the Mountain arnica.

See Arnica montana.

ARNICA MONTANA. The systematic name for the arnica of the pharmacopenies. denica folias rotats integries; caudinis geminis appassitis, of Linnaug. Doronicum Germanicum. Acymus. The flowers of this plant are very generally employed on the Continent. Of the advantages derived from their use, in paralytic and other affections, depending upon a want of nervous energy, there are several proofs; and their exthaordinary virtues, as a febrifage and antiseptic, have been highly extolled by Dr. Collin, of Vienna. Much cauting is necessary in pennishing the days. The systematic name for the ARNICA MONTANA.

it is a medicine very apt to produce vomiting, and the superarseniate of potassa, which is in solution in much uneasiness of the stomach. See Arnica.
Arnica suedensis. See Inula dusenterica.

ARNOTTO. A Spanish name for a shrub. See

Biza orleana.

ARO'MA. (Aroma, matis, neut.; from act, intensely, and of the colorous principle of plants, and other substances, which have their characteristic smell. by the moderns, aroma. Water charged with aroma, is called the distilled water of the substance made use of: thus lavender and peppermint waters are water impregnated with the aroma of the lavender and peppermint.

(Αρωματα, sweet spices, herbs, &c.) AROMATA. Aromatics.

AROMA'TIC. (Aromaticus; from aowua, an odour.) A term applied to a grateful spicy scent, and an agreeable pungent taste, as cinnamon bark, cardamoms, &c.

Aromatic vinegar. See Acetum aromaticum

AROMATICE PLANTE. Odoriferous or strong and agreeable smelling plants. The name of a class of plants in some natural arrangements.

AROMA'TICUS CORTEX. A name for canella alba.

AROMATOPO'LA. (From αρωμα, an odour, and πωλεω, to sell.) A druggist; a vender of drugs and

ARQUEBUSA'DE. (A French word, implying good for a gun-shot wound.) Aqua sclopetaria; Aqua vulnerarsa; Aqua cutapultarum. The name of a spirituous water, distilled from a farrago of aroatic plants.

A spirituous liquor distilled from rice, and drunk, in the rice countries, as brandy is in this island. Its effects on the animal economy are the

ARRAGONITE. A mineral of a greenish and pearly gray colour, found at Arragon in Spain, England, and Scotland.

[Although this mineral is composed chiefly of lime and carbonic acid, yet there is reason to believe, that other ingredients are essential to its true composition. It differs from pure carbonate of lime in hardness,

specific gravity, and crystalline structure.

In nitric acid it dissolves with effervescence. The analysis of no mineral has ever so much exercised the talents, exhausted the resources, and disappointed the expectations of the most distinguished chemists of Europe, as that of arragonite. Vauquelin and Four-croy obtained lime 58.5, carbonic acid 41.5; and the analysis of Biot and Theward, conducted with much analysis of Biot and Theuard, conducted with much ingemity, scarcely differs from this, except in giving a little water. With these, both Chevenix and Kia-proth agree, in finding the arragonite to contain lime and carbonic acid in nearly the same proportions as in the common carbonate of lime. Kirwan in his mineralogy, published in 1794, conjectured that the arra gonite might contain strontian; and very recently Professor Stroneyer of Gottingen has discovered in this mineral between three and four per cent. of the carbonate of strontian. This discovery will very probably lead to a solution of the preceding difficulty; but it is important that the analysis should be repeated

but it is important that the analysis should be repeated by different chemists. -C. Min. A.]

A'RRAPBUS. (From a, priv. and  $\rho a\phi \eta$ , a suture.) Without suture. It is applied to the cranium when naturally without sutures.

Arrangement of Minerals. See Minerals, arrange-

ARRHÆ'A. (From a, neg. and δεω, to flow.)

ARRHATA. (From a, neg. and bea, to flow.) The euppression of any natural flux, as the menses, &c.

ARRHAUS. (From a, priv. and p.k.a, a root:
without root.) Applied to variatical plants, which have no roots, but adhere and inslabe their nourishment by aimastomosing of the vessels; as Viscam album, and Javarenthus curepeus.

ARROWHEAD. The Sagittaria sagittifula of timeser. The corts of this rigant are said to be essent.

Linnaus. The roots of this plant are said to be esculent, but it must be in times of very great scarcity.

Array-root. See Maranta.

Array-shaped. See Leaf.

ARSE MATE. (Arsenus, atis. m.; from arseni-

the liquor assenicalis. See Arstnicalis liquor.

A RSFNAM: Arsenicam, in; from the Arabic team Arsenicae, for from agony, for apony, mascalus; from its strong and deadly powers? The name of a metal scattered, in great abundance, over the minera. kingdom. It is found in black, heavy masses of little buttiancy, cailed notice arsenic or testaceous arsenic. This exists in discrent parts of Germany. Mineralized by sulphur, it forms sulphurized arsenic. This mineral is met with in Italy, about Mount Vesuvius. There are two varieties of this ore, which differ from There are two varieties of this ore, which differ from each other in colour, occasioned by the different proportions of their component parts. The one is called yellow sulphurized arsenic, or orpinent; the other, red sulphurized arsenic, or realgar, or ruby arsenic; both are met with in Hungary and different parts of Germany. The colour of the first ore is a lemon-yellow, inclining sometimes to a green; the colour of the latter inclining sometimes to a green; the colour of the latter is a ruby-red; it is more transparent than the former, and found in compact and solid masses, sometimes crystallized in bright needles. Arsenic united to oxygen, constitutes the ore called natice oryge of arsenic. This ore is scarce; it is generally found of an earthy appearance, or as an efflorescence, coating native, or metallic arsenic; its colour is a whitish gray; it arrely met with crystallized. Arsenic exists likewise alloyed with cobalt, antimony, tin, copper, lead, and various other metals. various other metals.

Method of obtaining Arsenic. In order to obtain metallic arsenic, mix two parts of the white oxyde of metallic arsenic, mix two parts of the white oxyde of arsenic of commerce, with one of black flux (obtained by detonating one part of nitrate of potassa with two of supertartrate of potassa), and put the mixture into a crucible, or melting pot. Invert over this another crucible, lute the two together with a little clay and sand, and apply gradually a red heat to the lower one. The oxyde of arsenic will be reduced, and be found lining the upper crucible in small crystals of a metal-

lic brilliancy

The charcoal of the black flux takes in this process the oxygen from the white oxyde, and forms carbonic acid gas; which flies off during the process, and the oxyde becomes reduced to the metallic state. This reduction of the oxyde is greatly facilitated by the alkali

Remark.—In order to obtain arsenic in a state of absolute purity, the metal thus obtained must be reduced to a powder, dissolved by heat in nitro-muriatic acid, and then precipitated by immersing into the solution a plate of zinc. The arsenic is thus precipitated in a fine powder, and may be reduced to a mass, by

exposing it in a covered crucible to a moderate heat. 'It is among the most combustible of the metals, burns with a blue flame, and garlic smell, and sublimes

in the state of arsenious acid.

Concentrated sulphuric acid does not attack arsenic when cold; but if it be boiled upon this metal, sul-phurous acid gas is emitted, a small quantity of sulphur sublimes, and the arsenic is reduced to an oxyde. Nitrous acid readily attacks arsenic, and converts it

into arsenious acid, or, if much be employed, into ar-

senic acid.

senic acid.

Boiling muriatic acid dissolves arsenic, but affects it very little when cold. This solution affords precipitates upon the addition of alkalies. The addition of a little nitric acid expedites the solution; and this solution, first heated and condensed in a close vessel, is wholly sublimed into a thick liquid, formerly termed butter of arsenic. Thrown in powder into chlorine gas, it burns with a bright white flame, and is converted into a chlaride. verted into a chloride.

None of the earths or alkalies act upon it, unless it be boiled a long while in fine powder, in a large pro-portion of alkaline solution.

Nitrates detonate with arsenic, convert it into ar-senic acid, and this, combining with the base of the nitrate, forms an arseniate, that remains at the bottom of the vessel.

Muriates have no action upon it; but if three parts of chlorate of potassa be mixed with one part of arsenic in fine powder, which must be done with great precaution, and a very light hand, a very small quan-ARSE INTELLEGIST See Leag.

ARSE INTELLEGIST A salt formed by a continuation of assente acid with satisfake bases; as arsentate of ammonia, where is produced by the union of ammonia where is produced by the union of ammonia with a harmer, and if thrown into considerable rapidity; and if thrown into concentrated with arsente acid. The only one used in medicine is sulphuric acid, at the instant of contact a flame rises

Arsenic readily combines with sulphur by fusion and sublimation, and forms a yellow compound called orpinant, or a red called realgar. The nature of these, and their difference, are not accurately known; but Fourcroy considers the first as a combination of sulphur with the oxyde, and the second as a combination of sulphur with the metal itself, as he found the red sulphuret converted into the yellow by the action of

Arsenic is soluble in fat oils in a boiling heat; the solution is black, and has the consistence of an oint-ment when cold. Most metals unite with arsenic; which exists in the metallic state in such alloys as

possess the metallic brilliancy.

lodine and arsenic unite, forming an iodide, of a dark, purple-red colour, possessing the properties of an acid. It is soluble in water, and its solution forms

a soluble compound with potassa.

Arsenic combines with hydrogen into a very noxious Arsenic combines with hydrogen and a very noxious compound, called arsenuretted hydrogen gas. To prepare it, fuse in a covered crucible 3 parts of granulated tin, and 1 of metallic arsenic in powder; and submit this alloy, broken in pieces, to the action of muriatic acid in a glass retort. On applying a moderate heat, the arsenuretted hydrogen comes over, and may be received in a mercurial or water pneumatic trough. Protomuriate of tin remains in the retort.

A prime equivalent of hydrogen is to one of arsenic as 1 to 76; and 2 consequently as 1 to 38. Gehlen fell a victim to his researches on this gas; and therefore the new experiments requisite to elucidate its consti-tution must be conducted with circumspection. It extinguishes flame, and instantly destroys animal life.

Water has no effect upon it. From the experiments
of Sir H. Davy, and Gay Lussac and Thenard, there of Sir H. Davy, and Gay Lussac and Theman, there appears to be a solid compound of hydrogen and arsenic, or a hydruret. It is formed by acting with the negative pole of a voltaic battery on arsenic plunged in water. It is reddish brown, without lustre, taste, and smell. It is not decomposed at a heat approaching to cherry-red; but at this temperature it absorbs oxygen; while water and arsenious acid are formed, with the evoluton of heat and light. The proportion of the two constituents is not known.

Arsenic is used in a variety of arts. It enters into metallic combinations, wherein a white colour is required. Glass manufacturers use it; but its effect in the composition of glass does not seem to be clearly explained. Orpiment and realgar are used as pig-

ments.

Arsenic and its various preparations are the most active of all poisons. That which is mostly taken, is the white oxyde, or arsenious acid. See Arsenious acid

[Arsenical pyrites, or arsenical iron, is found in the Highlands of New-York, on the west side of the Hudson. In the town of Warwick, in Orange county, of this state, there is a huge vein of it in a mountain range, sufficient, as is said by a traveller, to poison the whole world.

the whole world. A.]
ARSENIC ACID. Acidum arsenicum; Acidum arsenicale. "We are indebted to the illustrious Scheele for the discovery of this acid, though Macquer had before noticed its combinations. It may be obtained by various methods. If six parts of nitric acid be poured on one of the concrete arsenious acids, or white arsenic of the shops, in the pneumato-chemical apparatus, and heat be applied, nitrous gas will be evolved, and a white concrete substance, differing in its properties from the arsenious acid, will remain in the retort. This is the arsenic acid. It may equally be procured by means of aqueous chlorine, or by heating concentrated nitric acid with twice its weight of the solution of the arsenious acid in muriatic acid. The concrete acid should be exposed to a duit red heat for a few minutes. In either case an acid is obtained, that does not crystallize, but attracts the moisture of the air, has a sharp, caustic taste, reddens blue vege-table colours, is fixed in the fire, and of the specific gravity of 3 391.

If the arsenic acid be exposed to a red heat in a glass retort, it melts and becomes transparent, but assumes a milky hue on cooling. If the heat be increased, so that the retort begins to melt, the acid boils, and sublimes into the neck of the retort. If a covered crucible be used instead of the glass retort, and a vio-

into the air like a flash of lightning, which is so bright lent heat applied, the acid boils strongly, and in a as to dazzle the eye. cent neat applied, the acid boils etrongly, and in a quarter of an hour begins to emit fumes. These, on being received in a glass bell, are found to be arsenious acid; and a small quantity of a transparent glass, difficult to fuse, will be found lining the sides of the crucible. This is asseniate of alumina.

Combustible substances decompose this acid. If the property of the compose the same of the compose the

two parts of arsenic acid be mixed with about one of charcoal, the mixture introduced into a glass retort, coated, and a matrass adapted to it; and the retort then gradually heated in a reverberatory furnace, till the bottom is red; the mass will be inflamed violently, and the acid reduced, and rise to the neck of the

and the acid reduced, and rise to the neck of the retort in the metallic state, mixed with a little oxyde and charcoal powder. A few drops of water, devoid of acidity, will be found in the receiver.

With sulphur the phenomena are different. If a mixture of six parts of arsenic acid, and one of powdered sulphur, be digested together, no change will take place: but on evaporating to dryness, and distilling in a glass retort, fitted with a receiver, a violent combination will ensue, as soon as the mixture is sufficiently heated to melt the sulphur. The whole mass rises almost at once, forming a red sublimate, and sul-

phurous acid passes over into the receiver.

If pure arsenic acid be diluted with a small quantity of water, and hydrogen gas, as it is evolved by the action of sulphuric acid on iron, be received into the action of suppure acid on iron, be received into this transparent solution, the liquor grows turbid, and a blackish precipitate is formed, which, being well washed with distilled water, exhibits all the pheno-mena of arsenic. Sometimes, too, a blackish-gray oxyde of arsenic is found in this process. If sulphuretted hydrogen gas be employed instead of simple hydrogen gas, water and a sulphuret of ar-senic are obtained.

senic are obtained.

With phosphorus, phosphoric acid is obtained, and a

phosphuret of arsenic, which sublimes.

The arsenic acid is much more soluble than the arsenious. According to Lagrange, two parts of water are sufficient for this purpose. It cannot be crystal-lized by any means; but, on evaporation, assumes a thick honey-like consistence.

No acid has any action upon it: if some of them dissolve it by means of the water that renders them fluid, they do not produce any alteration in it. boracic and phosphoric are vitrifiable with it by means of heat, but without any material alteration in their natures. If phosphorus acid be heated upon it for some time, it saturates itself with oxygen, and becomes phosphoric acid.

The arsenic acid combines with the earthy and alkaline bases, and forms salts very different from those

furnished by the arsenious acid.

All these arseniates are decomposable by charcoal,

which separates arsenic from them by means of heat, All its salts, with the exception of those of potassa, soda, and ammonia, are insoluble in water; but except sous, and administ, are instanced in water, were soluble in an excess of arsenic acid. Hence, after barytes or oxyde of lead has been precipitated by this acid, its farther addition re-dissolves the precipitate. This is a useful criterion of the acid, joined to its reduction to the metallic state by charcoal, and the other characters already detailed. Sulphuric acid decomposes the arseniates at a low temperature, but the sulphates are decomposed by arsenic acid at a red heat, owing to the greater fixity of the latter. Phosphoric, nitric, muriatic, and fluoric acids, dissolve, and probably convert into subsalts all the arseniates. The whole of them, as well as arsenic acid itself when decomposed at a red heat by charcoal, yield the characteristic gar-lic smell of the metallic vapour. Nitrate of silver gives a pulverulent brick-coloured precipitate, with areanic acid. The acid itself does not disturb the transparency of a solution of sulprate of capper; but a neutral arsemiate gives with it a bluish green precipitate; with sulphate of cobalt, a dirty red; and with sulphate of nickel, an apple-green precipitate. These precipitates redissolve, on adding a small quantity of the acid which previously held them in solution. Orlia says, that arsenic acid gives with acetate of copper, a bluish-white precipitate, but that it exercises no action either on the muriace or acetate of cobalt; but with the ammonio-moriate, it gives a rose-coloured precipitate. Arsenic acid ought to be accounted a more violent poison than even the arsenious.

The arseniate of barytes is insoluble, uncrystalliza- asserts, arsenic acid decomposes the alkaline and ble, soluble in an excess of its acid, and decomposable earthy sulphates, even that of barytes; the sulphuric by sulphuric acid, which precipitates a sulphate of

The bin-arseniate of potassa is made on the great scale in Saxony, by fusing together equal parts of nitre and arsenious acid; dissolving the melted mass, and crystallizing the salt.

Of the arseniate of strontian nothing is known, but no doubt it resembles that of barytes.

With lime-water this acid forms a precipitate of arseniate of lime, soluble in an excess of its base, or in an excess of its acid, though insoluble alone. dulous arseniate of lime affords on evaporation little crystals, decomposable by sulphuric acid. The same salt may be formed by adding carbonate of lime to the solution of arsenic acid. This acid does not decompose the nitrate or muriate of lime: but the saturated alkaline arseniates decompose them by double affinity, precipitating the insoluble calcareous arseniate

If arsenic acid be saturated with magnesia, a thick substance is formed near the point of saturation. This arseniate of magnesia is soluble in an excess of acid; and on being evaporated takes the form of a jelly, without crystallizing. Neither the sulphate, nitrate, nor muriate of magnesia is decomposed by arsenic acid, though they are by the saturated alkaline arseniates.

Lough they are by the saturated alkaline arseniates. Arsenic acid, saturated with potassa, does not easily crystallize. This arseniate, being evaporated to dryness, attracts the humidity of the air, and turns the syrup of violets green, without altering the solution of litmus. It fuses into a white glass, and with a strong fire is converted into an acidule, part of the alkali being abstracted by the silex and alumina of the crucible. If exposed to a red heat with charcoal in close vessels, it swells up very merk and arsenic is sublimed. It is it swells up very much, and arsenic is sublimed. It is decomposed by sulphuric acid; but in the humid way the decomposition is not obvious, as the arsenic acid remains in solution. On evaporation, however, this acid and sulphate of potassa are obtained.

If arsenic acid be added to the preceding salt, till it If arsenic acid be added to the preceding sail, till it recases to have any effect on the syrup of violets, it will redden the solution of litmus; and in this state it affords very regular and very transparent crystals, of the figure of quadrangular prisms, terminated by two tetraedral pyramids, the angles of which answer to those of the prisms. These crystals are the arsenical neutral sait of Macquer. As this sait differs from the preceding arseniate by its crystallizability, its reddense solution of litmus its not decomposing the salargeing solution of litmus, its not decomposing the calcarebus and magnesian salts like it, and its capability of absorbing an additional portion of potassa, so as to become neutral, it ought to be distinguished from it by

With soda in sufficient quantity to saturate it, arsenic acid forms a salt crystallizable like the acidulous arseniate of potassa. To form the neutral arseniate, nic acid forms a sait crystallizable like the acidulous arseniate of potassa. To form the neutral arseniate, carbonate of soda should be added to the acid, till the mixture be decidedly alkaline. This salt crystallizes from the concentrated solution. It is much more soluble in hot than in cold water. Pelletier says, that the crystals are hexaéral prisms, terminated by planes perpendicular to their axis. This neutral arseniate of soda, however, while it differs completely from that of potassa in this respect, and in becoming deliquescen instead of crystallizable on the addition of a surplus portion of arsenia acid, resembles the arseniate of potassa in its decomposition by charcoal, by acids, and by the earths.

by the earths.

Combined with ammonia, arsenic acid forms a salt affording rhomboidal crystais analogous to those of the mirrate of soda.

The arseniate of soda and ammonia is formed by mixing the two separate arseniates; and the compound salt gives crystals with brilliant faces. If we rediscolve the crystals, and then recrystallize, we should add a little ammonia, otherwise the salt will be acidulous from the escape of some ammonia.

A receive and supported with during forms a thick

Arsenic acid saturated with alumina forms a thick Arsenic acid saturated with admirat forms a tiner solution, which, being evaporated to dryness, yields a salt insoluble in water, and decomposable by the sulpluric, nitric, and muritatic acids, as well as by all the other earthy and alkaline bases. The arsenic acid the other earthy and alkaline bases. The arsenic acid readily dissolves the alumina of the crucibles in which It is reduced to a state of fusion; and thus it attacks silex also, on which it has no effect in the humid way.

By the assistance of a strong fire, as Fourcroy

earthy suppartes, even that of farytes; the sulpiture acid flying off in vapour, and the arseniate renaining in the retort. It acts in the same manner on the nitrate, from which it exples the pure acid. It likewise decomposes the muriales at a high temperature, the muriate acid being evolved in the form of gas, and the argenic acid combining with their bases, which it as arsenic acid combining with their bases, which it sa-turates; while the arsenious acid is too volatile to have this effect. It acts in the same manner on the fluates, and still more easily on the carbonates, with which, by the assistance of heat, it excites a brisk Lagrange, however, denies that it acts effervescence. on any of the neutral salts, except the sulphate of potassa and soda, the nitrate of potassa, and the muriates of soda and ammonia, and this by means of heat. does not act on the phosphates, but precipitates the boracic acids from solutions of borates when heated. Arsenic acid does not act on gold or platina; neither

does it on mercury or silver, without the aid of a strong heat; but it oxydizes copper, iron, lead, tin, zinc, bismuth, antimony, cobalt, nickel, manganese, and ar-

This acid is not used in the arts, at least directly, though indirectly it forms a part of some compositions used in dying. It is likewise one of the mineralizing acids combined by nature with some of the metallic

acids combined by nature with some of the metallic oxydes."—Ure's Chem. Dict.
Arsenic, oxyde of. See Arsenious acid.
Arsenic, oxide. See Arsenious acid.
Arse incl. caustic. A species of caustic said to possess useful properties, independent of those of destroying morbid parts to which it is applied. It is composed of two parts of levigated antimony to one of white arsenic. This is the caustic so extensively employed under the name of arsenical caustic, by the late Mr Justamond, in his treatment of cancers.
[Arsenic is a powerful, a dangerous, and yet a

[Arsenic is a powerful, a dangerous, and yet a valuable caustic. Small tumours, excrescences, warts, &c., may be easily and safely removed by it. Alone, it gives much pain; and in large quantities, and apnegives much pain; and in large quantities, and applied to an extensive surface, is extremely dangerous. Its painful action may be modified and more safely applied by mixing one part of white arsenic with one of powdered opium, and two of lapis calaminaris. A.]

naris. A.]
ARSENICA'LIS LIQUOR. Arsenical solution. Take
of sublimed oxyde of arsenic, in very fine powder, subcarbonate of potassa from tartar, of each 64 grains;
distilled water a pint. Boil them together in a glass
vessel, until the arsenic be entirely dissolved. When
the solution is cold, add compound spirit of lavender,
four fluid drachms. Then add as much distilled
water as may exactly fill a pint measure. This preparation accords with the formula of Dr. Fowler, of Stafford, who first introduced it in imitation of a celebrated popular remedy for intermittents, sold under the name of the tasteless ague-drop. The compound spirit of lavender is only intended to give some colour and of inventor is only intentact to give some coordinate taste, without which it would be more liable to mistakes. Where the dose is small, and the effects so powerful, the most minute attention to its proportion and preparation becomes necessary. Each ounce contains four grains of the oxyde, and each drachm half a grain; but it will rarely be proper to go beyond

One-sixteenth of a grain as a dose.

Arsenical solution. See Arsenicalis liquor.

Arsenici oxydum praparatum. See Arsenici oxydum sublimatum.

ARSENICUM ALBUM. Arsenici oxydum sublimatum; Arsenici oxydum praparatum. Reduce white arsenic into powder, then put it into a crucible and expose is to the fire, so as to sublime it into another crucible inverted over the former. This is intended to render the arsenic more pure.

Arsenicum album. White arsenic. See Arsenious

ARSENICUM CRYSTALLINUM. See Arsenious acid. ARSE'NIOUS ACID. White arsenic. Oxyde of Arsenicum crystallınum, risigallum, aquala, arfar, aquila, zarnick, artaneck. Rat's bane. The earliest chemists were embarrassed in the determination of the nature of the poisonous white substance known in commerce by the name of white arsenic, known in commerce by the name of white descence, "Fourcroy was the first who distinguished by this name the white assenic of the shops, which Scheele had proved to be a compound of the metal assenic with oxygen, and which the authors of the new chemical inical glasses appear to contain a kind of triple safe, nomenclature had consequently termed oxyde of arsenic. As, however, it manifestly exhibits the proper-ties of an acid, it has a fair claim to the title; for many oxydes and acids are similar in this, that both consist of a base united with oxygen, and the only difference between them is, that the compound in which the acid properties are manifest is termed an acid, and that in which they are not is called an oxyde

This acid, which is one of the most virulent poisons known, frequently occurs in a native state, if not very abundantly; and it is obtained in roasting several ores, particularly those of cobalt. In the chimneys of the furnaces where this operation is conducted, it generally condenses in thick semitransparent masses; though sometimes it assumes the form of a powder, or of little needles, in which state it was formerly called

flowers of arsenic

The arsenious acid reddens the most sensible blue The assenting actured the property of violets green. On exposure to the air it becomes opaque, and covered with a slight efforescence. Thrown on incardescent coals, it evaporates in white fumes, with a strong smell of garlic. In close vessels it is volatilized; and, if the heat be strong, vitrified. The result of this vitrification is a transparent glass, capable of crystallizing in tetraedra, the angles of which are truncated. It is easily altered by hydrogen and car-bon, which deprive it of its oxygen at a red heat, and reduce the metal, the one forming water, the other car-bonic acid with the oxygen taken from it; as it is by phosphorus, and by sulphur, which are in part con-verted into acids by its oxygen, and in part form an arsenical phosphuret or sulphuret with the arsenic re-duced to the metallic state. Hence Margraaf and Pel-letier, who particularly examined the phosphurets of metals, assert they might be formed with arsenious acid. Its specific gravity is 3.7.

It is soluble in thirteen times its weight of boiling

water, but requires eighty times its weight of cold. The solution crystallizes, and the acid assumes the form of regular tetraëdrons, according to Fourcroy; but, according to Lagrange, of octaedrons, and these frequently varying in figure by different laws of decrement. It crystallizes much better by slow evaporation

than by simple cooling.

The solution is very acrid, reddens blue colours, unites with the earthy bases, and decomposes the alkaline sulphurets. Arsenious acid is also soluble in oils, spirits, and alkohol; the last taking up from 1 to 2 per cent. It is composed of 9.5 of metal = 3 oxygen; and its prime equivalent is therefore 12.5. Dr. Wollaston first observed, that when a mixture of it with quicklime is heated in a glass tube, at a certain temperature, irrition enddenly nervedes the mass and metallic arse. ignition suddenly pervades the mass, and metallic arsenic sublimes. As arseniate of lime is found at the bottom of the tube, we perceive that a portion of the arsenious acid is robbed of its oxygen, to complete the aciditication of the rest.

There are even some metals, which act upon the solution, and have a tendency to decompose the acid so

as to form a blackish precipitate, in which the arsenic is very slightly oxydized.

The action of the other acids upon the arsenious is very different from that which they exert on the metal arsenic. By boiling, sulphuric acid dissolves a small portion of it, which is precipitated as the solution cools. The nitric acid does not dissolve it, but by the help of heat converts it into arsenic acid. Neither the phosphoric nor the carbonic acid acts upon it; yet it enters into a vitreous combination with the phosphoric and boracic acids. The muriatic acid dissolves it by and boracic acids. The muriant acid dissolves it by means of heat, and forms with it a volatile compound, which water precipitates; and aqueous chlorine acidines it completely, so as to convert it into arsenic

The arsenious acid combines with the earthy and alkaline bases, forming Arsenites. The earthy arseniates possess little solubility; and hence the solutions of barytes, strontian, and lime, form precipitates with

that of arsenious acid.

This acid enters into another kind of combination with the earths, that formed by retrification. Though a part of this volatile acid sublines before the glass enters into fusion, part remains fixed in the vitrified embstance, to which it impares transparency, a homogeneous density, and considerable gravity. The arsobination at the instant of fusion, and remain afterward perfectly mixed. All of them have the inconvenience

perfectly mixed. All of them have the inconvenience of quickly growing dull by exposure to the air. With the fixed alkalies the arsenious acid forms thick arsenites, which do not crystallize; which are decomposable by fire, the arsenious acid being volatilized by the heat; and from which all the other acids precipitate this in powder. These saline compounds were formerly termed livers, because they were supposed to be analogous to the combinations of sulphur with the allethies.

posed to be analogous to the combinations of sulphur with the alkalies.

With ammonic it forms a salt capable of crystallization. If this be heated a little, the ammonia is decomposed, the nitrogen is evolved, while the hydrogen, uniting with part of the oxygen of the acid, forms

Neither the earthy nor alkaline arsenites have yet been much examined; what is known of them being only sufficient to distinguish them from the arseniates

The arsenious acid is used in numerous instances in the arts, under the name of white arsenic, or of arsenic simply. In many cases it is reduced, and acts in its metallic state.

Many attempts have been made to introduce it into medicine; but as it is known to be one of the most violent poisons, it is probable that the fear of its bad effects may deprive society of the advantages it might adout in this way. An arseniate of potassa was ex-tensively used by the late Dr. Fowler, of York, who published a treatise on it, in intermittent and remittent fevers. He likewise assured the writer, that he had found it extremely efficacious in periodical headache, and as a tonic in nervous and other disorders; and that he never saw the least ill effect from its use, due precaution being employed in preparing and adminis-tering it. Externally it has been employed as a caustic to extirpate cancer, combined with sulphur, with bole, with antimony, and with the leaves of crowfoot; but it always gives great pain, and is not unattended with It always gives great pain, and is not unattended with danger. Febvre's remedy was water one pint, extract of hemlock § j. Goulard's extract § ij. tincture of opium § j. arsenious acid gr. x. With this the cancer was wetted morning and evening; and at the same time a small quantity of a weak solution was administered internally. A still milder application of this kind has been made from a solution of one grain in a quart of water, formed into a poultice with crumb of hereal.

It has been more lately used as an alterative with advantage in chronic rheumatism. The symptoms which show the system to be arsenified are thickeess, redness, and stiffness of the palpebræ, soreness of the gums, ptyalism, itching over the surface of the body, restlessness, cough, pain at stomach, and headache. resinessness, cough, pain at stomach, and headquire. When the latter symptoms supervene, the administration of the medicine ought to be immediately suspended. It has also been recommended against chincough; and has been used in considerable doses with success, to counteract the poison of venomous ser-

Since it acts on the animal economy as a deadly poison in quantities so minute as to be insensible to the taste when diffused in water or other vehicles, it has been often given with criminal intentions and fatal effects. It becomes therefore a matter of the utmost importance to present a systematic view of the phenomena characteristic of the poison, its operation, and consequences.

tion, and consequences. It is a dense substance, subsiding speedily after agitation in water. Dr. Ure found its sp. gr. to vary from 3.728 to 3.730, which is a little higher than the number given above: 72 parts dissolve in 1000 of boiling water, of which 30 remain in it, after it cools. Cold water dissolves, however, only 3-1000 or 1-10 of the preceding quantity. This water makes the syrup of violets green, and reddens litmus paper. Lime water gives a fine white precipitate with to f arsenite of lime, soluble in an excess of the arsenious solution; water gives a mie winte president water gives a mie winte president of lime, soluble in an excess of the arsenious solution; sulphuretted hydrogen gas, and hydrosulphuretted water, precipitate a golden yellow sulphuret of arsenious golden yellow sulphuret of arsenious acid may be detected in water. This sulphuret dried on a filter, and heated in a glass tube with a bit of caustic po-tassa, is decomposed in a few minutes, and converted into sulphuret of potassa, which remains at the bot

tom, and metallic arsenic of a bright steel lustre, tom. Cut the tube across at that point by means of & which sublimes coating the sides of the tube. hydr sulphurets of alkalies do not affect the arsenious hydr sulphinets of alkaties do hot aftert the arsentons solution, unless a drop or two of maric or muriatic acid be poured in, when the characteristic golden yellow precipitate falls. Nitrate of silver is decomposed by the arsentious acid, and a very peculiar yellow arsenite of silver precipitates; which, however, is apt to be redissolved by nitric acid, and therefore a very minute addition of ammonia is requisite. Even this, however, also, if in much excess, redissolves the silver precipitate.

As the nitrate of silver is justly regarded as one of the best precipitant tests of arsenic, the mode of using it has been a subject of much discussion. This excellent test was first proposed by Mr. Hune of Long Acre, in May 1809. Phil. Mag. xxxiii. 401. The pre-sence of muriate of soda indeed, in the arsenical solution, obstructs, to a certain degree, the operation of this reagent. But that salt is almost always present in the prime view, and is a usual ingredient in soups, and other vehicles of the poison. If, after the water of ammonia has been added, (by plunging the end of a glass rod dipped in it into the supposed poisonous liquid,) we dip another rod into a solution of pure nitrate of silver, and transfer it into the arsenious solu-tion, either a fine yellow cloud will be formed, or at first merely a white curdy precipitate. But at the second or third immersion of the nitrate rod, a central spot of yellow will be perceived surrounded with the white muriate of silver. At the next immersion, this yellow cloud on the surface will become very conspi-Sulphate of soda does not interfere in the least with the silver test.

The ammoniaco-sulphate, or rather ammoniaco-acetate of copper, added in a somewhat dilute state to an arsemous solution, gives a fine grass-green and every characteristic precipitate. This green arseniate of copper, well washed, being acted on by an excess of sulphuretted hydrogen water, changes its colour, and becomes of a brownish-red. Ferro-prussiate of potassa changes it into a blood-red. Nitrate of silver converts it into the yellow arsenite of silver.

Lastly, if the precipitate be dried on a filter, and placed on a bit of burning coal, it will driftise a gartic odour. The cupreous test will detect 1-110000 of the weight of the arsenic in water.

The Voltaic battery, made to act by two wires on a little arsenious solution placed on a bit of window-glass, developes metallic arsenic at the negative pole, and if this wire be copper, it will be whitened like

tombac.

We may here remark, however, that the most elegant mode of using all these precipitation reagents is upon a plane of glass; a mode practised by Dr. Wo! laston in general chemical research, to an extent, and laston in general chemical research, to all extent, and with a success, which would be incredible in other hands than his. Concentrate by heat in a capsule the suspected poisonous solution, having previously filtered it if necessary. Indeed, if it be very much disguised with animal or vegetable matters, it is better first of all to evaporate to dryness, and by a few drops of nitric acid to dissipate the organic products. clear liquid being now placed in the middle of the bit of glass, lines are to be drawn out from it is different directions. To one of these a particle of weak a mnoniacal water being applied, the weak altitude of selections are the beautiful over it with a hair peneil. By placing the glass in different lights, either over white paper or obliquely before the eye, the slightest change of tint will be perceived. The ammoniaco-acetate should be applied to another filament of the drop, deutacetate of iron to a third, weak ammoniaco acetate of cobalt to a fourth, sulphuretted water to a fifth, lime water to a sixth a drop of violet-syrup to a seventh, and the two galvanic wires at the opposite edges of the whole. Thus with one single drop of solution many exact experiments may be made.

But the chief, the decisive trial or experimentum crusis remains, which is to take a little of the dry matter, mix it with a small pinch of dry black flux, put it into a narrow class tube sealed at one and and after cleansing its sides with a feather, urge its bottom with a blow-pipe till it be distinctly red hot for a minute. Then garlic fumes will be smelt, and the Steel-lustred coating of metallic arsenic will be seen

The fine file, detach the scale of arsenic with the point of & peakmie: put a tragment of it into the bottom of a small wine-glass along with a few drops of ammoniaco-acctate of copper, and triturate them well together for a few minutes with a round headed glass rod. The mazacine blue colour will soon be transmuted into a lively grass green, while the metallic scale will into a lively grass green, while the metallic scale will vanish. Thus we distinguish perfectly between a particle of metallic arsenic and one of animalized charcoal. Another particle of the scale may be placed between two smooth and bright surfaces of copper, with a touch of fine oil; and while they are firmly presed together, exposed to a red-heat. The tombac alloy will appear as a white stain. A third particle may be placed on a bit of heated metal, and held a little under the stains of the placed on the stain of the placed on the nostrils, when the garlic odour will be recognised. No danger can be apprenended, as the fragment need

not exceed the teath of a grain.
It is to be observed, that one or two of the precipitation tests may be equivocal from admixtures of various substances. Thus tincture of ginger gives with the capreous reagent a green precipitate; -and the writer of this article was at first led to suspect from that appearance, that an empirical tincture, put into his hands for examination, did contain arsenic. But a careful analysis satisfied him of its genuineness. a careful analysis satisfied mm of its genumerous. Tea covers arsenic from the capreous test. Such poisoned ten becomes, by its addition, of an obscure olive or violet red, but yields scarcely any precipitate. Suppuretted hydrogen, however, throws down a fine

yellow sulphuret of arsenic.

The true way of obviating all these sources of falla-The true way of obviating all these sources of rans-cy, is to evaporate carefully to dryness, and expose the residue to heat in a glass tube. The arsenic sublines, and may be afterward operated on without ambi-guity. M. Ordia has gone into ample details on the modifications produced by wine, coffee, tea, broth, &c. on arsenical tests, of which a good tabular abstract is given in Mr. Thomson's London Dispensatory. But it is evident that the differences in these menstrua, as also in beers, are so great as to render precipitations aso to beers, are so great as to remore precipitations and changes of colour by reagents very unsatisfactory witnesses, in a case of life and death. Hence the method of evaporation above described should never be neglected. Should the arsenic be combined with oil, the mixture ought to be boiled with water, and the oil then separated by the capillary action of wick-threads. If with resinous substances, these may be removed by oil of turpentine, not by alkohol, (as directed by Dr. Black,) which is a good solvent of assenious acid. It may moreover be observed, that both tea and coffee should be freed from their tannin by gelatin, which should be freed from their familie by gentin, when does not act on the arsenic, previous to the use of reagent for the poison. When one part of the arsenious acid in watery solution is added to ten parts of milk, the sulphuretted hydrogen present in the latter, occasions the white colour to pass into a canary yellow; the cupreous test gives it a slight green tint, and the the cupreous test gives it a silent green tim, and the nitrate of silver produces no visible change, though even more arsenic he added; but the hydrosriphurets throw down a golden yellow, with the aid of a few drops of an acid. The liquid contained in the stomach of a rabbit poisoned with a solution of three grains of are nions acid, afforded a white precipitate with ni-trate of silver, grayish-white with lime water, green with the ammoniaco-sulphate, and deep yellow with sulphuretted hydrogen water.

sulphiretted hydrogen water.

The preceding capious description of the habitudes of assenious acid in different circumstances, is equally applicable to the soluble assenites. Their poisonous operation, as well as that of the assenic acid, has been satisfactority referred by Mr. Brodie to the suspension of the functions of the heart and brain, occasioned by the absorption of these substances into the circulation, and their constant determination to the nervous system and the alimentary canal. This proposition was established by numerous experiments on rabbits and dogs. Wounds were inflicted, and assence being applied to them, it was found that in a short time death supervened with the same symptoms of inflammation of the stomach and bowels, as if the poison had been

He divides the morbid affections into three classes: 1st, Those depending on the nervous system, as palsy at first of the posterior extremities, and then of in the tube about one-fourth of an inch above its bot- rest of the body, convulsions, dilatation of the pupils,

and general insensibility: 2d, Those which indicate disturbance in the organs of circulation; for example, the feedle, slow, and intermitting pulse, weak contractions of the heart immediately after death, and the impossibility of prolonging them, as may be done in sudden deaths from other causes, by artificial respiration: 3d, Lastly, those which depend on issue of the admentary canad, as the panse of the admentary canad, as the panse of the admentary canad as the panse of the admentary canad as the panse of the admentary canad as the panse of the admentary canad, as the panse of the considered as the own. If the office of the considered as the immediate cause of death, by the greater number of cases of poisoning by arsenic. However, should an animal not sink under the first violence of the poison, if the inflammation has had time to be developed, there is no doubt that it may destroy life. Mr. Earl states, that a woman who had taken arsenic resisted the alarming symptoms which at first appeared, but died on the fourth day. On opening her body the mucous membrane of the stomach and intestines was nicecated to a great extent. Authentic cases of poison necessities in the primage nine.

The effects of arsenic have been graphically represented by Dr. Black: 'The symptoms produced by a dangerous dose of arsenic begin to appear in a quarter by an hour, or not much longer, after this taken. First sickness, and great distress at stomach, goon followed by thirst, and burning heat in the bowels. Then come on violent vomiting and severe colic pains, and excessive and paintul purging. This brings on faintings, with cold sweats, and other signs of great debility. To this succeed painful cramps, and contractions of the legs and thighs, and extreme weakness, and death. Similar results have followed the incantious sprinking of schirrous ulcers with powdered arsenic, or the application of arsenical pastes. The following more minute specification of symptoms is given by Orfila: 'An austere taste in the mouth; frequent ptyalism; continual spiriting; constriction of the phargura and assophs gues; teeth set on edge; hiccups; nausea; vone ing of brown or bloody matter; anxiety, frequent fainting fits; burning heat at the precorder; inflammation of the lips, tongue, palate, throat, stomach; actue pain of stomach, rendering the natidest drinks intolerable; black stools of an indescribable fettor; pulse frequent, oppressed, and irregular, sometimes slow and unequal; palpitation of the heart; syncape; unextinguishable thirst; burning sensation over the whole body, resembling a consuming fire; at times an icy coldness; difficult respiration; cold sweats; scanty urine, of a red or bloody appearance; altered expression of countenance; a livid circle round the eyelids; welling and itching of the whole body, which becomes covered with livid spots, or with a miliary vruption; prostration of strength; loss of feeling, especially in the feet and hands; delirium, convolations, sometimes accompanied with an insupportable priapism; loss of the hair; separation of the epidermis; horrible convulsions; and death.'

It is uncommon to observe all these frightful symptoms combined in one individual; sometimes they are altogether wanting, as is shown by the following case, related by M. Chaussier:—A robust man of middle age swallowed arsenious acid in large fragments, and died without experiencing other symptoms than slight syncopes. On opening his stomach, it was found to contain the arsenious acid in the very same state in which he had swallowed it. There was no appearance whatever of crosion or inflammation in the intestinal canal. Etimulier mentions a young girl's being poisoned by arserie, and whose stomach and bowels were sound to all appearance, though the arsenic was found in them. In general, however, inflammation does extend along the whole canal, from the mouth to the rectum. The stomach and duadrance present frequently gangrenous points, eschars, perforations of all their coats; the villous coat in particular, by this and all other corrosive poisons, is commonly detacled, as 'fi it were scraped off or reduced into a paste of a reddish-brown colour. From these considerations we may conclude, that from the extent or sent of the symptoms alone, the physician should not venture to pronounce definitively on the fact of poisoning.

The result of Mr. Brodie's experiments on brutes teaches, that the inflammations of the intestines and stomach are more severe when the poison has been applied to an external wound, than when it has been thrown into the stomach itself.

thrown into the stomach itself.

The best remedies against this poison in the stomach, are copions draughts of bland liquids of a muci laginous consistence, to inviscate the powder, so as to procure its complete ejection by vomiting. Sulphuretted ffydrogen condensed in water, is the only direct antidote to its virulence; Orifia having lound, that when dogs were made to swallow that liquid, after getting a poisonous dose of arsenic, they recovered, though their œsophagus was tied to prevent vomiting; but when the same dose of poison was administered in the same circumstances, without the sulphuretted water, that it proved fatal.

When the reserva are to be subjected after death to

When the rescret are to be subjected after death to chemical investigation, a ligature ought to be thrown round the exeppages and the legimung of the colon, and the intermediate stomach and intestincs removed. Their liquid contents should be empired into a basin; and threather a portion of hot water introduced into the stomach, and worked thoroughly up and down this prices. It would be the interference of the colonial content of the stomach, and worked thoroughly up and down this

miscus, as well as the intestines.

After filtration, a portion of the liquid should be concentrated by evaporation in a porcelain capsule, and then submitted to the proper reagonts above described. We may also endeavour to extract from the stomach by digestion in boiling water, with a little ammonia, the arsenical impregnation, which has been sometimes known to adhere in minute particles with wonderful obstinacy. This precaution ought, therefore, to be attended to. The heat will dissipate the excess of ammonia in the above operation; whereas, by adding potassa or soda, as prescribed by the German chemists, we introduce animal matter in alkaline solution, which complicates the investigation.

The matters rejected from the patient's bowels before death, should not be neglected. These, generally spenting, are best treated by cautious evaporations to dryness: but we must beware of heating the residuum to 4009, since at that temperature, and perhaps a little under it, the arsenious acid itself sublimes.

Vinegar, hydroguretted alkaline sulphurets, and oils, are of no use as counterpoisons. Indeed, when the arsenic exists in substance in the stomach, even sulphuretted hydrogen water is of no avail, however effectually it neutralize an arsenious solution. Syrups, linseed tea, decoction of mallows, or tragacanth, and warm milk, should be administered as copiously as possible, and vomiting provoked by tickling the fauces with a feather. Clysters of a similar nature may be also employed. Many persons have escaped death by having taken the poison mixed with rich soups; and it is well known, that when it is prescribed as a medicine, it acts most beneficially when given soon after a meal. These facts have led to the prescription of butter and oils; the use of which is, however, not adviscable, as they screen the arsenical particles from more proper menstrua, and even appear to aggravate its virulence. Morgagni, in his great work on the seats and causes of disease, states, that at an Italian feast the dessert was purposely sprinkled over with arsenic instead of flour. Those of the guests who had previously ate and drank little, speedity perished; those who had their stomachs well filled, were saved by vomiting. He also mentions the case of three children who ate a vegetable soup poisoned with arsenic. One of them who took only two spoonfuls, had no vomiting, and died: the other two, who had caten the rest, vomited, and got well. Should the poisoned pattent be incapable of vomiting, a tube of caoutchouc, capable of being attached to a syringe, may be had recourse to. The tube first serves to introduce the drink, and to withdraw it after a few instants.

The following tests of arsenic and corrosive sublimate have been Intely proposed by Brugnatelli. Take the starch of wheat boiled in water until it is of a proper consistence, and recently prepared; to this add a sufficient quantity of iodine to make it of a blue colour; it is afterward to be dituted with pure water until it becomes of a beautiful azure. If to this, some drops of a watery solution of arsenic be added, the colour changes to a reddish bue, and finally vanishes. The solution of corrosive sublimate poured into iodine and starch, produces almost the same change as

arsenic; but if to the fluid acted on by the arsenic we add some drops of sulphuric acid, the original blue colour is restored with more than its original brilliancy, while it does not restore the colour to the corrosive sublimate mixture .- Ure's Chem. Diet.

mixture.—Let's Chem. Pact.

ARTEMISLA. (From a queen of that name, who first used it; or from Αρτεμις, Diana; because it was formerly used in the diseases of women, over whom she presided.) The name of a genus of plants in the Linnwan system. Class, δyngenesia; Order, Poly-

gamia superflua.

ARTEMISIA ABROTANUM. The systematic name for the Abrotanum of the pharmacoparias. Abrotanum the Arotunum of the pharmacoperas. Mardonaem mas; Adonion; Adonium; Abrathan. Common southernwood. Artemisia—foliis setaceis ramosissimis of Linneus. A phant possessed of a strong, and, to most people, an agreeable smell; a pungent, bitter, and somewhat nauseous taste. It is supposed to stimulate the whole system, but more particularly the uterus. It is very rarely used unless by way of fomen-tation, with which intention the leaves are directed.

ARTEMISIA ABSINTHIUM. The systematic name for the Absinthium vulgare of the pharmacopæias. Common wormwood. Falsely called in our markets Absinthium Romanum, or Roman wormwood. Absin-Absinthium Romanum, or Roman wormwood. Absinthium Ponticum of Dioscorides and Pliny, according to Murray. Artemisia—folitis compositis multifidis floribus subglobusts pendulus; receptaculo villoso of Linnaus. This plant is a native of Britain, and grows about rubbish, rocks, and sides of roads. The leaves of wormwood have a strong disagreeable smell: their taste is nauscous, and so intensely bitter as to be proverbial. The flowers are more aromatic and less bitter than the leaves and the rotter disposer are more aromatic. verbial. The flowers are more aromatic and less bitter than the leaves, and the roots discover an aromatic warmth, without bitterness. This species of wormwood may be considered the principal of the herbacous bitters. Its virtus, (in the words of Bergius,) is antiputredinosa, antacida, anthelmintica, resolvens, tonica, spasmodica. And although it is now chiefly employed with a view to the two last-mentioned qualities, yet we are told of its good effects in a great variety of discover as internitient, fearus, hypochondissis. ties, yet we are told of its good effects in a great variety of diseases, as intermittent fevers, hypochondriasis, obstructions of the liver and spleen, gout, calcul, scurvy, dropsy, worms, &c. Cullen thinks it is possessed of a narcotic power, and that there is in every bitter, when largely employed, a power of destroying the sensibility and irritability of the nervous system. Externally, wormwood is used in discutient and antiseptic fomentations. This plant may be taken in powder, but it is more commonly preferred in infusion. The Edinburgh Pharmacopæia directs a tincture of the

The Edinburgh Pharmacopæia directs a tincture of the flowers, which is, in the opinion of Dr. Cullen, a light and agreeable bitter, and, at the same time, a strong impregnation of the wormwood.

impregnation of the wormwood.

ARTEMISIA CHINENISI. Mugwort of China. Moza Japanica; Musia pattra. A soft lanuginous substance, called Moza, is prepared in Japan, from the young leaves of this species of mugwort, by beating them when thoroughly dried, and rubbing them between the hands, till only the fine fibres are left. Moza is celebrated in the eastern countries for preventing and curing many disorders, by being burnt on the skin; a little cone of it laid upon the part, previously moistened, and set on fire on the top, burns down with a temperate and glowing heat, and produces a dark-coloured spot, the ulceration of which is promoted by putting a little garie, and the ulcer is either healed up when the eschafferent circumstances may require. length of time, as different circumstances may require. ARTEMISIA GLACIALIS. Mountain wormwood.
This is found on Alpine situations, and has similar

virtues to common wormwood.

Artemisia judaica. The systematic name for the Santonicum of the pharmacopeias, according to some botanists. See Artemisia santonica.

Artemisia martima. The systematic name for the Absinhium maritimum of the pharmacopeias. Sea wormwood. Falsely called in our markets, Rose wormwood. Falsely called in our markets, Rose Sea wormwood. Faisely called in our markets, moman wormwood. Artenicias—folius multipartitis,
tomentosis; racemis cernuis; flusculus famineis ternis
of Linneus. This plant grows plentifully about the
sea-shore, and in salt marshes. The specific differences between it and the common wormwood, artemisic abointhium, are very evident. Its taste and
smell are considerably less unpleasant than those of the
common wormwood, and even the essential oil, which common wormwood, and even the essential oil, which contains the whole of its flavour concentrated, is some- and the aorta.

what less ungrateful, and the watery extract rome what less bitter than those of the common wormwood Hence it is preferred, in those cases where the Artemi. sia absinthum is supposed to be too impleasant for the stomach. A ceaserve of the tops of this plant was directed by the London pharmacopesa.

ARTEMINA PONTICA. The systematic name for the

ARTEMISIA PONTICA. The systematic name for the Absinthium ponticum, or Roman wormwood, not now

used medicinally.

ARTEMISIA RUPESTRIS. The systematic name for ARTEMISIA RUPESPIRIS. In Systematic hance to the Groupi albumot the pharmacopusus. Stremessa-folis punnates; cauditus adscandentibus; floribus globosis, cermuis; receptuculo pappaso. It has a grateful smell, and is used in some countries in the cure of intermittents and obstructed catamenia.

cure of intermittents and obstructed catamenia.

ARTEMISIA SANTONIA. Absinthium santonicum Alexandrinum; Sementina; Absinthium seriphium Abgypteum; Scheba Irabum; Zedoaria sennen; Xantolian; Lumbricorum semna, Cran; Sennen contra; Sennen sanctum; Artemisia-Judaica. The Tattarian southernwood or wormseed. Artemisia-phits caulinis linearibus, pinnato-multifidis; rams indivisis, spicis secundis r plexis; fluribus quinqueflores of Linnaus. The seeds are small, light, and oval, composed of a number of thiu membraneous coats of a yellowishgreen colour, with a quest of hower, easily flighte, mon of a number of thin membraneous coats of a yidowsin-green colour, with a cast of brown, easily friable, upon being rubbed between the fingers, into a fine chaffy kind of substance. They are brought from the Levant; have a moderately strong and not agreeable smell, somewhat of the wormwood kind, and a very bitter subacid taste. Their virtues are extracted both by watery and spirituous menstrua. They are esteemed to be stomachic, emmenagogue, and anthelmintic; but it is especially for the last-mentioned powers that they it is especially for the last-mentioned powers that they are now administered, and from their efficacy in this way they have obtained the name of wormseed. To adults the dose in substance is from one to two drachms, twice a day. Lewis thinks that the spirituous extract is the most eligible preparation of the santonicum, for the purposes of an antichmimic.

ARTEMISIA VULGARIS. Mugwort. This plant, Artemisia—folis pinnatifidie, plants, incisis, subtus tomentosis; racemis simplicibus, recuvatis; floribus radio quinqueforo of Linnews, is slightly bitter, and, although in high esteem in former days, is now almost wholly forgotten.

wholly forgotten.

(From Artemon, its inventor.) A ARTEMO'NIUM.

ARTE'RIA. (Arteria, α. f.; from aηρ, air, and τηρεω, to keep; so called because the ancients believed

they contained air only.) See Artery.

ARTERI'ACA. (From apringia, an artery.) cines formerly used against disorders of the aspera

arteria, or trachea. ARTERIE ADPOSE. The arteries which secrete the fat about the kidneys are so called. They are branches of the capsula and diaphragmatic, renal, and spermatic

ARTERIA VENOSA. The four pulmonary veins were

ARTERIA. VENOSE. I Inclout pulmonary veins were so called by the ancients.

ARTERIO'SUS DUCTUS. See Ductus arteriosus.

ARTERIO'TOMY. (Arteriotomia, a. f.; from aptropa, an artery, and repus, to cut.) The opening of an artery. This operation is frequently performed on the temporal artery.

an arery. This operation is frequently performed on the temporal artery.

A'RTERY. Arteria. A membraneous pulsating canal, that arises from the heart and gradually becomes less as it proceeds from it. Arteries are comcomes less as it proceeds from it. Arteries are com-posed of three membranes; a common, or external; a nuscular; and an internal one, which is very smooth. They are only two in number, the pulmonary artery, and the aorta, and these originate from the heart; the pulmonary artery from the right ventricle, and the aorta from the left: the other arteries are all branches of the aorta. Their termination is either in the veins, or in capillary exhaling vessels, or they anastomose with one another. It is by their means that the blood is carried from the heart to every part of the body, for nutrition, preservation of life, generation of heat, and the secretion of the different fluids. The action of the arteries, called the pulse, corresponds with that of the heart, and is effected by the contraction of their muscular, and great elasticity of their outermost coat.

A table of the Arteries.

All the arteries originate from the pulmonary artery

The pulmonary artery emerges from the right ven-fricle of the heart, soon divides into a right and left branch, which are distributed by innumerable ramifications through the lungs

The aarta arises from the left ventricle of the heart, and supplies every part of the body with blood, in the

following order.

a. It forms an arch.
b. It then descends along the spine; and,

c. It divides into the two iliacs.
a. The ARCH OF THE AORTA gives off three branches. 1. The arteria innominata, which divides into the

right carotid and right subclavian.

The left carotid.
The left subclavian.

The carotids are divided into external and internal.

The external carotids give off

The thyroid.

The lingual,

- The labial,
  The inferior pharyngeal,

The occipital,
The posterior auris.

The internal maxillary, from which the spinous artery of the dura mater, the lower maxillary, and several branches about the palate and orbit arise,

The temporal.

The internal carotid affords,

The ophthalmic,
The middle cerebral,

- The communicans, which inosculates with the ner-
- The subclavians give off the following branches. The internal mammary, from which the thymic, comes phrenici, pericardiac, and phrenico-pericardiac arteries arise,

diac arteries arise,
2. The inferior thyroid, which gives off the tracheal,
ascending thyroid, and transversalis humeri,
3. The vertebral, which proceeds within the vertebrae,
and forms within the cranium the basilary artery,
from which the anterior cerebelli, the posterior cerebri, and many branches about the brain, are given

The cervicalis profunda,
The cervicalis superficialis,

The superior intercostal,

The supra-scapular. As soon as the subclavian arrives at the arm-pit, it is called the axillary artery; and when the latter reaches the arm, it is called the brachial.

The axillary artery gives off,

Four mammary arteries, The sub-scapular,

The posterior circumflex,

The anterior circumflex, which ramify about the shoulder-joint.

The brachial artery gives off,

Many lateral branches,

The profunda humeri superior,

The profunda humeri inferior,

The great anastomosing artery, which ramifies

about the elbow-joint. The brachial artery then divides, about the bend of the arm, into the ulnar and radial urteries, which are ramified to the ends of the fingers.

The ulnar artery gives off,

1. Several recurrent branches,

2. The common interesseal, of which the dorsal ulnar, the palmaris profunda, the palmary arch, and the digitals, are branches.

The radial artery gives off,

The radial artery gives on,

1. The radial recurrent,

2. The superficialis vola, and then divides into the palmaris profunda, and the digitals.

b. The descending again gives off,

In the breast,

- 1 The bronchial, 2. The asophageal,
- The intercostals,
- The inferior diaphragmatic.

Within the abdomen

- The caline, which divides into three branches:

  1. The hepatic, from which are given off, before it
  - reaches the liver,
    a. The duodeno-gastric, which sends off the right
    gastro-epiploic and the pancreatico-duodenal,

β. The pylorica superior hepatica;
The coronaria ventriculi,
The splenic, which emits the great and small
pancreatics, the posterior gastric, the left gastroepiploic, and the casa brevia;

The superior mesenteric,

The emulgents, The spermatics

5. The inferior mesenteric, 6. The lumbar arteries,

of The tandar arteria,
T. The middle sacral.

c. The aorta then bifurcates into the LLIACS, each
of which divide into external and internal. The internal iliac, called also hypogastric, gives off,

The lateral sacrals,

The gluteal,
The ischinite,
The pudica, from which the external hamorrhoidal,
The pudica, and the arteria penis alise, the perineal, and the arteriæ penis arise. The obturatory.

The external iliac gives off, in the groin,

The epigastric,

2. The circum(lexia iliaca;
It then passes under Poupart's ligament, and is called the femoral artery; and sends off,

called the jemoral artery; and sends on;

1. The profunda,

2. The romus anastomoticus magnus, which runs
about the knee joint;

Having reached the ham, where it gives off some
small branches, it is termed the pophical. It then divides into the anterior and posterior tibial.
The tibialis antica gives off,

The recurrent.

- The recurrent,
  The internal malleolar,
  The external malleolar,

The tarsal,

The metatarsal,
The dorsalis externa halicis.

The posterior tibial sends off, The nutritia tibia,

Many small branches,

 Many small orannes,
 The internal plantar, from which an arch is formed, that gives off the digitals of the toes.
 ARTHANITA. (From apros, bread; because it is the food of swine.) The herb sow-bread. See Cyclamen Europeum.

ARTHRE MBOLUS. (From αρθρον, a joint, and εμ-βαλλω, to impel.) An instrument for reducing luxated

ARTHRI'TIC. (Arthriticus; from apopures, the

ARTHRITIC. (Arthriticus; from apθριτις, the gout.) Pertaining to the gout.

ARTHRITICA HERBA. The Ægopodium podugraria, and several other plants, were so called.

ARTHRITICS. (Arthritis; dids, fcm.; from apθρον, a joint: because it is commonly confined to the joints.) The gout. Dr. Cullen, in his Nosology gives it the name of podagra, because he considers the foot to be the seat of idiophatic gout. It is arranged in the class Exercise and colors the goar and considers and divided. class Pyrexia, and order phlegnasia, and is divided into four species, the regular, atonic, retrocedent, and misplaced. See Podagra.

into four species, the regular, atonic, retrocedent, and misplaced. See Podagra.

ARTHROCA'CE. (From αρβων, a joint, and κακη, a disease.) An ulcer of the cavity of the bone.

ARTHRODIA. (Arthrodia, α.f.; from αρβωω, to articulate.) A species of diarthross, or moveable connexion of bones, in which the head of one bone is received into the superficial cavity of another, so as to admit of motion in every direction, as the head of the humerus with the glenoid cavity of the scapula.

ARTHRODY NIA. (Arthrodynia, α.f.; from αρ, θρων, a joint, and οὐενη, pain.) Pain in a joint. It is one of the terminations of acute rheumatism. See Rhermatisms.

Rheun

ARTHROPI'O'SIS. (Arthropuosis, 18. f.; from aρθρον, a joint, and πυον, pus.) Arthropyosis. A collection of pus in a joint. It is however frequently applied to other affections. See Lumbur abscess. ARTHROSIA. (Arthrosis ir, itom anδρου. to articulate: whence arthrosis, arthrites.) The name of a genus of disease in Good's new classification, which combraces repumatism, gout, and white swelling. Soa embraces rheumatism, gout, and white swelling. See

ARTHRO'SIS. (From appears, to articulate, or join together.) Articulation.

ARTICHOKE. See Cinara scolymus.

Artichoke, French. See Cinara ecolymus.

Artichoke, Ierusalem. See Helianthus tuberosus. ARTICUI, A'R. (Articularis; from articulus, a int.) Belonging to a joint.

ARTICULARIS GORBUS. A name given to a disease which more must distely intests the articula, or joints. The morb is articularis is synonymous with the Greek word arthritis, and our gout.

ARTICULARIS VENA. A branch of the basilic vein is so called because it passes under the joint of the

ARTICULATION. (Articulatio; from articulus, a joint.) The skeleton is composed of a great number of bones, which are all so admirably constructed, and with so much affinity to each other, that the extremity of every hone is perfectly adjusted to the end of the bone with which it is connected: and this connexion is termed their articulation. Anatomists distinguish three kinds of arriculation; the first they name Diagnostical actions the context of the co throsis; the second, Synarthrosis; and the third, Amphiarthrosis; which see, under their respective

ARTICULA'TUS. Articulate; jointed. - A term applied to roots, stems, leaves, &c., when they are apparently formed of distinct pieces united as if one piece grew out of another, so as to form a jointed, but connected whole: in the Rathe articulate, radicals shoot out from each joint, as in the Oxales are toochta, wood sorrel. The Caales articulate is exemptified in the Cactus figellifermis and Lathyrus superstris; the Cactus opuntia and Cactus fiest indica have articulated. culate leaves. The Oxalis acctosella articulate leaf-

ARTICULUS. (From artus, a joint; from apθρον.)

A joint. See Articulation.
 Botanists apply this term to that part of the stalk of grasses which is intercepted, or lies between two the knot itself.

of grasses which is intercepted, or lies between two knots, and also to the knot itself.

ART'SCUS. (From apros, bread.) A troch; so called because it is made like a little loaf.

ARTO'CREAS. (From apros, bread, and κρασ, flesh.)

A nourishing food, made of bread and various meats, boiled together.—Gales.

ARTO'GALA. (From apros, bread, and γαλα, milk.)

A cooling food made of bread and milk. A poultice.

ARTO 'MELL. (From apros, bread, and γαλα, bread, bread, and while the production of the

A cooling food made of bread and milk. A poultice.

ARTO MELL (From apros, bread, and µɛλɨ, honey.)

A cataplasın made of bread and honey.— Gulen.

A'RUM. (Arum, i n.; from the Hebrew word jaron, which signifies a dart; so named because its leaves are shaped like a dart; or apa, injury.) 1. The name of a genus of plants in the Linnæan system. Class, Gynandria,—O'rder, Polyandria.

2. The pharmacopeial name of the common arum.

See Arum maculatum.

ARUM DRACUNCULUS. The systematic name of the plant called, in English, dragon's wort, and many-

plant called, in English, dragon's wort, and many-leaved arum; Draceneulus polyphyllus; Colubrina dracentia; Serpenteria gallorum; Eros de Sancta Maria; Gigarus serpentaria; Arum polyphyllum. The roots and leaves of this plant are extremely actimonious, more so than the Arum maculatum, with which it agrees in redictional virtues.

Arum Maculatum. The systematic name for common arum, or wake-robin; the arum of the pharmacopeias. Arum—acaule; folis hastatic, integerrimts; spadice clavato of Linnaus. Common arum or wake-robin. The root is the medicinal part of this plant, which when recent, is very acrimonious; and, upon being chewed, excites an intolerable of this plant, which when recent, is very acrimonus; and, upon being chewed, excites an intolerable sensation of burning and prickling in the tongue, which continues for several hours. When cut in cliess and applied to the skin, it has been known to produce blisters. This acrimony, however, is gradually lost by drying, and may be so far dissipated by the application of heat, as to leave the root a bland farinaceous aliment. In this state it has been made into a wholesome bread. It has also been prepared as starch. Its medicinal quality, therefore, resides wholly in the active volatile matter, and consequently the powdered root must lose much of its power, on being long kept. Arum is certainly a powerful stimulant, and, by promoting the secretions, may be advantage-ously employed in cachectic and chlorotic cases in rheumatic affections, and in various other complaints of phlegmatic and torpid constitutions; but more especially in a weakened or relaxed state of the stomach, occasioned by the prevalence of viscid mucus. If this root is given in powder, great care should be called by reason of their minuteness.) An intercutary

taken that it be young and newly dried, when it may he used in the dose of a scruple, or more, twice a day; but in rheumatisms, and other disorders requiring the full effect of this medicine, the root should be given in a recent state: and, to cover the insupportable puri-gency it discovers on the tongue, Dr. Lewis advises us to administer it in the form of enulsion, with gum-ara-bic and spermaceti, increasing the dose from ten grains to upwards of a scruple, three or four times a day. this way, it generally occasioned a sensation of slight warmth about the stomach, and afterward, in the remoter parts, manifestly promoted perspiration, and frequently produced a plentiful sweat. Several obstinate rheumatic pains were removed by this medicine. The root answers quite as well as garlic for cataplasms, to be applied on the feet in deliriums. The London to be applied on the feet in deliriums. The London College, in their Pharamacoperia, 1788, ordered a conserve, in the proportion of half a pound of the fresh root to a pound and a half of double relined sugar, beat together in a mortar, which appears to be one of the best forms of exhibiting arum, as its virtues are destroyed by drying, and are not extracted by any menstruum. It may be given to adults in doses of a drachm.

ARUNDINACEUS. (From arundo, a reed.) Arun-

dinaceous or reed-like.

ARUNDINACE, PLANTE. Arundinaceous plants. a name given to a class of plants by Ray, from their

ARUNDO. (Arundo, inis, f.; supposed to be derived from areo, because it soon becomes dry.) The

rived from a genus of plants in the Linnaan system.

Class Triandria; Order, Digynia.

Arundo bambos. The bamboo plant. The young shoots of this plant are prepared by the natives of both shoots of this plant are prepared by the hatives of both Indies with vinegar, garlic, pepper, &c. into excellent pickles, which promote the appetite and assist digestion. A substance called Tabasheer or Tabachir, which is a concretion of the liquor in the cavities of the cane, and extracted at certain seasons, is much esteemed as a medicine by the orientalists.

Arundo saccharifera. The name of the sugar-

See Saccharum officinale.

ARYTÆNO. Belonging to the arytænoid cartilage. Some muscles are so named because they are connected with this cartilage: they have also the terminal name of the part they go to; as eryteno-epi-

ARYTENO-EPIGLOTTIDEUS. A muscle of the epiglottis. Apyteno-Epiglottici of Winslow. It is composed of a number of libres running between the arytenoid cartilage and epiglottis. It pulls the side of the epiglottis towards the external opening of the glottis, and when both act, they pull it close upon the elottis.

ottis.

ARYTÆNOI'D. (Arytonoideus and Arytonoides;

funnel and edge, shape.) The name ARYTENOID CARTILLER. Cartilago arytenoidea.

ARYTENOID CARTILLER. Cartilago arytenoidea.

The name of two cartilages of the larynx. See La-

ARYTÆNOIDE'US. Applied to some muscles,

vessels, nerves, &c.
ARYTENOIDEUS MAJOR. See Arytenoideus trans-

ARYTENOIDEUS MINOR. See Arytenoideus obli-

ARYTENOIDEUS OBLIQUUS. A muscle of the glottis.

Arytenoideus minor of Douglas. It arises from the base of one arytenoid cartilage, and crossing its fellow, is inserted near the tip of the other arytemoid car-tilage. This muscle is occasionally wanting; but when present, and both muscles act, their use is to pull the arytemoid cartilages towards each other.

ARYTANOIDEUS TRANSVERSUS. An azygos or single muscle of the glottis. Arytanoideus major of Douglas. It arises from the side of one arytanoid cartilage from near its articulation with the cricoid to near its tip. The fibres run across, and are inserted in hear its up. The libres but across, and are inscribe in the same manner into the other arytemoid cartilage. Its use is to shut the glottis, by bringing the two arytemoid cartilages, with their ligaments, nearer to each

ASAPHA. (From a, neg. and capps, clear) defect in ulterance or pronunciation
ASARABACCA. Sec. Asurem Europoum.
ASARUM. (Asarum, A. I. from a, neg. and cae
pos, to adorn; because it was not admitted into the
ancient coronal wreaths.) I. The name of a genus of
Class. Dedocaying. plants in the Linnaan system. Class, Dodecandria; Order, Monogynia.

2. The pharmacopoial name of the asarabacca.

See Asarum Europaum

ASARUM EUROPAUM. The systematic name of the Asartem Etropeem. The systemate name of the asarabacet of the shops. Mardus montain a Mardus rustice; Asarum—folius reniformibus, obtuses, banes of Linneus. This plant is a native of England, but not very common. Its leaves are extremely accid, and not very common. Its leaves are extremely aerid, and are occasionally used, when powdered, as a sternutatory. For this purpose, the leaves, as being less cerid than the roots, are preferred, and in moderate doses, not exceeding a few grains, snuffed up the nose, for several evenings, produce a pretty large watery discharge, which continues for several days together, by which headache, toothache, ophthalmia, and some paralytic and soporific complaints have been effectually relieved.

Prior to the introduction of ipccaeuanha, the leaves and root of this plant were frequently employed on account of their emetic power: the dose of the dried leaves was 20 grains; of the dried roots 10 grains. As they were occasionally violent in their operation, they

have fallen into disuse.

Asarum hypocistis. A parasitical plant which grows in warm climates, from the roots of the Cistus. The juice, succus hypocistidis, is a mild astringent, of no particular smell nor flavour. It has fallen into

disuse.

ASBESTOS. Asbestus. A mineral of which there are five varieties, all more or less flexible and fibrous. I. Amianthus occurs in very long, fine, flexible, elastic fibres, of a white, greenish, or reddish colour. It is somewhat unctuous to the touch, has a silky or pearly lustre, and is slightly translucent. Sectile; tough;

sp. grav. from 1 to 2.3

The ancients manufactured cloth out of the fibres of asbestos, for the purpose, it is said, of wrapping up the bodies of the dead, when exposed on the funeral pile. Several moderns have likewise succeeded in making this cloth, the chief artifice of which seems to consist in the admixture of flax and a liberal use of oil; both which substances are afterward consumed by exposing the cloth for acertain time to a red heat. Although the cloth of asbestos, when soiled, is restored to its primitive whiteness by heating in the fire, it is found, nevertheless, by several authentic experiments, that its weight dimmishes by such treatment. The fibres of asbestos, exposed to the violent heat of the blow-pipe, exhibit slight indications of fusion; though the parts, instead of running together, moulder away, and part fall down, while the rest seem to disappear before the current of air. Ignition impairs the flexibi-lity of asbestos in a slight degree.

2. Common asbestos occurs in masses of fibres of a

2. Common asbestos occurs in masses of nores of a dull greenish colour, and of a somewhat pearly lustre. Fragments splintery. It is scarcely flexible, and greatly denser than amianthus. It is more abundant than amianthus, and is found usually in serpentine, as at Portsoy, the Isle of Anglesea, and the Lizard in Cornwall. It was found in the limestone of Glentitt, by Dr. M'Culloch, in a pasty state, but it soon hardened

by exposure to air.

Mountain Leather consists not of parallel fibres 3. Mountain Leather consists not of parallel fibres like the preceding, but interwoven and interlaced so as to become tough. When in very thin pieces it is called mountain paper. Its colour is vellowish-white, and its touch meagre. It is found at Wanlockhead, in Lanarkshire. Its specific gravity is uncertain.

4. Mountain Corky or Elustic Asbeetos, is, like the preceding, of an interlaced fibrous texture; is opaque, has a meagre feel and appearance, not unlike common cork, and like it, too, is somewhat elastic. It swims on water. He coloutes are white were and vellowish.

on water. Its colours are white, gray, and yellowish brown; receives an impression from the nail; very brown: receives an impression from the had, very touch; cracks when handled, and melts with difficulty before the blow pipe 5 Mountain Wood, or Leganform asbestos, is usually massive, of a brown colour, and having the aspect of

neons disorder, generated in the pores, like worms (wood Internal lustre glimmering. Soft, sectile, and with black heads.

Asa'rana. (From a, neg. and σαφης, clear) A sign specific metage; fusible into a black slag. Sp. grav 2.0. It is found in the Tyrol; Daubiny, and in Scotland, at Glentilt, Portsoy, and Kildrumle.

ASCAPORITES A species of onion.

ASCARIDES The plural of ascaris.

ASCARIS. (Ascaris, idis; from ascae, to move about; so called from its continued troublesome motion.) The name of a genus of intestinal worms. There are several species of this genus. Those which belong to the human body are:

1. Ascars vermicularis, the thread or maw worm, which is very small and slender, not exceeding half an inch in length; it inhabits the rectum.

2. Ascaris bumbricoides, the long and round worm, which is a feet in length, and about the breadth of a

goose-quill.

ASCE'NDENS. (From ad and scando, to ascend.)

Adscendens. Ascending. Applied to muscles, leaves, stalks, &c. from their direction; as musculus obliquus ascendens, folium ascendens, caulin ascendens, the leaves of the geranium vitifolium and stems of the hedysarum onobrychis, &c.

ASCENDENS OBLIQUUS. See Obliquus internus abdominus.

A'SCIA.

An axe or chisel. A simple bandage; so

ASCIDIATUS. (From ascidium,) Ascidiato or pitcherform: a term applied to a leaf and other parts of plants which are so formed; the folium ascidiatum is seen in the Neponthes Distillatoria, and in Sanassia.

ASCIDIUM. ASCIDIUM. (From ασκιδιον, & small bottle.) The pitcher. A term introduced by Willdenow into The pitcher. A term introduced by winderlow has botany to express a hollow foliaceous appendage, resembling a small pitcher. It is of rare occurrence, but has been found as a cadinar, foliar, and a peduncular or floral appendage.

The caulinar belongs to the Austalasian plant Ce-

phalotus folicularis.

2. The foliar speculiar to the genus Nepenthes.

3. The radius of a contract to the genus Nepenthes.

phatotus paintenance.

2. The foliar is peculiar to the genus Neperunes.

3. The peduncular on the Surubea quianensis.

ASCITES. (Ascites, z. m.; from acros, a sack, or bottle; so called from its bottle-like protuberancy.)

Dropsy of the belly. A tense, but scarcely elastic, swelling of the abdomen from accumulation of water.

Cullen ranks this genus of disease in the class Ca-Cullen ranks this genus of disease in the class Ca-chexiae, and order, Intumescentiae. He enumerates two species

1. Ascites abdominalis, when the water is in the cavity of the peritoneum, which is known by the equal swelling of the parietes of the abdomen.

2. Ascites saccatus, or encysted dropsy, in which the water is encysted, as in the ovarium: the fluctuation is here less evident, and the swelling is at first

Ascites is often preceded by loss of appetite, slug-Ascites is often preceded by loss of appetite, sluggishness, dynaess of the skin, oppression at the chest, cough, diminution of the natural discharge of urine, and costiveness. Shortly after the appearance of these symptoms, a protuberance is perceived in the hypogastrium, which extends gradually, and keeps on increasing, until the whole abdomen becomes at length uniformly swelled and tense. The distension and sense of weight, although considerable, vary somewhat according to the posture of the body, the weight being felt the most on that side on which the patient lies, while, at the same time, the distention becomes being fett the most on that side on which the patient lies, while, at the same time, the distention becomes somewhat less on the opposite side. In general, the practitioner may be sensible of the fluctuation of the water, by applying his left hand on one side of the abdomen, and then striking on the other side with his right. In some cases, it will be obvious to the ear. As the collection of water becomes more considerable, the difficulty of breathing is much increased, the countenance exhibits a pale and bloated appearance, an immoderate thirst, the skin is dry and parched, and the urine is very scanty, thick, high coloured, and deposits a lateritious sediment. With respect to the pulse, it is variable, being sometimes considerably quickened, and, at other times, slower than natural. The principal difficulty, which prevails in ascines, is the being able to distinguish, which certainty, when the water is in the cavity of the assomen, or when it is in the different states of encysted dropsy. To form a just judgment, we should attend to the following cir

cumstances.—When the preceding symptoms gave man species, suspicion of a general hydropic diathesis; when, at the same time, some degree of dropsy appears in other parts of the body; and when, from its first appearance, the swelling has been equally diffused over the whole belly, we may generally presume that the water is in the cavity of the abdomen. But when an ascites has the cavity of the abdomen. But when an ascites has not been preceded by any remarkable cachectic state of the system, and when, at its beginning, the tumour and tension had appeared in one part of the helly more than another, there is reason to suspect an encysted dropsy. Even when the tension and tumour of the helly have become general, yet, if the system or the body in general appear to be little affected; if the patient's strength be little impaired; if the appetite continue pretty entire, and the natural sleep be little interrupted; if the menese in females continue to flow as usual: if there be yet no ansarca, or, though it may have already taken place, if it be still confined to the lower extremities, and there be no leucophlegmatic lower extremities, and there be no leucophlegmatic paleness or sallow colour in the countenance; if there he no fever, nor so much thirst and scarcity of urine be no fever, nor so much thirst and scarcity of urine as occur in a more general affection: then according as more of these different circumstances take place, there will be the stronger grounds for supposing the ascites to be of the encysted kind. The encysted form ascites to be of the encysted kind. The encysted form of the disease searcely admits of a perfect cure, though its progress to a fatal termination is generally very slow; and the peritonneal dropsy is mostly very obstinate, depending usually on organic disease in the liver, or other abdominal viscera. The plan of treatment agrees very much with that of ansacrac; which see. The operation of paracentesis should only be performed where the distension is very great, and the respiration or other important functions impeded; and it will often be better not to draw off the whole of the fluid at once: great care must be taken, too, to keep fluid at once; great care must be taken, too, to keep up sufficient pressure by a broad bandage over the abup sufficient pressure by a broad bandage over the abdomen; for even fatal syncope has arisen from the neglect of this. The contraction of the muscles will be
promoted by friction. Cathartics are found more decidedly beneficial than in ansastra, where the bowels
will bear their liberal use. Diuretics too, are of great
importance in the treatment; and, among other means
of increasing the flow of urine, long-continued gentle
friction of the abdomen with oil has been sometimes. very successful, probably by promoting absorption in very successful, probably by promoting absorption in the first instance; the only use of the oil seems to be that the friction is thereby better borne. In cases where visceral obstructions have led to the effusion, these must be removed, before a cure can be accomplished: and for this purpose mercury is the remedy most to be depended upon, besides that in combination with squill, or digitalis, it will often prove powerfully diuretic. Tonic medicines, a nutritious diet, and, if the complaint appears giving way, such exercise as the patient can take, without fatigue, with other means of improving the general health, ought not to be neglected.

ASCLEPI'ADES, a celebrated physician, born at ASCLEPT ADES, a celebrated physician, born at Prusa, in Bithynia, who flourished somewhat before the time of Pompey. He originally taught rhetoric, but not meeting with success, applied himself to the study of medicine, in which he soon became famous from the novelty of his theory and practice. He supposes disease to arise from the motion of the particles poses disease to arise from the motion of the porticits of the blood and other fluids being obstructed by the straitness of the vessels, whence pain, fever, &c. ensued. He deprecated the use of violent remedies, as emetics and purgatives, but frequently employed clysters, when costiveness attended. In fevers, he chiefly relied on a complete abstinence from food or drink for relied on a complete abstinence from food or drink for three days or more; but when their violence abstinence allowed animal food and wine. In pleurisies, and other complaints attended with violent pain, he prescribed bleeding; but in those of a chronic nature, depended principally on abstinence, exercise, baths, and frictions. None of his works remain at present. He is said to have pledged his reputation on the preservation of his own health, which he retained to a great age, and died at length from a fall.

ASCLETIAS: (From Asclepias, ādis. f.; so named after its discoverer; or from Asclepias, ide god of medicine.) The same of agenus of plants in the Lineara system: Class, Pentandric; Order, Digypia:

ASCLETIAS SYRIACA. Syrian dog's bane. This plant is particularly so ossonous to dogs, and also to the hu-

is particularly poisonous to dogs, and also to the hu-

man species. Boiling appears to destroy the poison in the young shoots, which are then said to be esculent, and flavoured like asparagus.

ASCLEPIAS VINCETOXICUM. The systematic name ASCLEPIAS VINCETOXICUS. The systematic name for the vincetoxicum of the pharmacoperiss. Herminiaria; Asclepias. Swallow-wort; Tame poison. The root of this plant smells, when fresh, somewhat of valerian; chewed, it imparts at first a considerable sweetness, which is soon succeeded by an unpleasant subacrid bitterness. It is given in some countries in the cure of glandular obstructions.

Asc.L'From works, a bottle. The minence of the pubes at the years of maturity, so called from

its shape.

ASCYROIDEÆ. A name given by Scoipoli to a class of plants which resemble the Ascyrum, St. Peter's worth.

A'ser. A pustule like a millet seed.

A'SEGON. Asegen; Asogen. Dragon's blood. See

A SECON. Asegen; Asegen. Diagons burned.
Calamus rotang.
ASE'LLUS, GASPAR, of Cremona, born about the year 1580, taught anatomy at Paris with great reputation. In 1632, he discovered the lacteals in a dog opened soon after a meal, and noticed their valves, but supposed they went to the liver. These vessels, he candidly observes, had been mentioned by some of the cardiest medical writers, but not described, nor their function stated; and not being noticed by any modern anatomist previously, the discovery is properly attributed to him. His death took place four years after, subsequent to which his dissertation on the subject was published by his friends.

ASH. See Frazinus excelsior.

was published by his friends.

ASH. See Frazinus excelsior.

[Ashes. The residuum, after the incineration of wood. It is also applied to the alkali extracted plixiviation, under the names of Pot-ash, and Pearl-ash, both of which are included in the mercantile title

Ashes. A.]
Asher Balsamum. Baim of Gilead.
Asinus. The ass. A species of the zerus Equus.
Its milk is preferred to cow's and other kinds of milk,
the milk is preferred to a species of the stomach is weak. in phthisical cases, and where the stomach is weak; as containing less oleaginous particles, and being more easily converted into chyle. See Milk, Asses.

Asin', Num Lac. Asses' milk.

Asi'Ti. (From a, neg. and otros, food.) Asitia.

Those are so called who take no food, for want of

appetite. A'SJOGAM. (Indian.) A tree growing in Malabar and the East Indies, the juice of which is used against the colic.

Aso'des. (Frem αδω, to nauseate.) A nausea or loathing, or a fever with much sense of heat and nausea.—Aretœus

ASPADIA'LIS. A suppression of urine from an imperforated urethra.

perforated urethra. Aspalarthum. See Lignum aloes. ASPALATHUS. (From a, and  $\sigma n a \omega$ , because the thorns were not easily drawn out of the wounds they made.) The name of a genus of plants in the Linnean system. Class, Diadelphia; Order, Decan-

ASPALATHUS CANARIENSIS. The systematic name of the rose-wood tree, or lignum rhadium of the ancients. An essential oil is obtained from the roots,

cients. An essential oil is obtained from the roots, which is used principally as a perfume; but is an excellent cordial and carminative given internally. The best preparation is a fineture, made by macerating four ounces of the wood in a pint of rectified spirit.

ASPARAGIN. White transparent crystals, of a peculiar vegetable principle, which spontaneously form in asparagus juice which has been evaporated to the consistence of syrup. They are in the form of rhomboidal prisms, hard and britte having a cool and slightly nau-seous taste. They dissolve in hot water, but sparingly in cold water, and not at all in alkohol. On being heated, they swell and emit penetrating vapours, which affect the eyes and nose like wood-smoke. Their solution does not change vegetable blues, nor ist affected tion does not change vegetable blues; nor is it affected by hydrosulphuret of potassa, oxalate of ammonia, ace tate of lead, or infusion of galls. Lime disengages ammonia from it; though none is evolved by triturating it with potassa. The asparagus juice should be first heated to coagulate the albumen, then filtered and left to spontaneous evaporation for 15 or 20 days. Along

with the asparagin crystals, others in needles of little | during the term of 3000 or 4000 years, since it was Consistency appear, analogous to mannite, from which the first can be easily picked out.—Vauquelin and Robiquet. Annales do Chimie, vol. lv. and Nicholn's Journal, 15.
ASPA'RAGUS.

ASPA'RAGUS. (Asparagus, i. m. Ασπαραγος, a young shoot before it unfolds its leaves.) 1. The name of a genus of plants in the Linnaan system. Class, Hezandria; Order, Monogynia. Asparagus. 2. The pharmacopeial name of the sparage. See

Asparagus officinalis.
Asparagus officinalis. The systematic name of the asparagus, the root of which has been esteemed as a diuretic. It is mostly employed as a food, but it contains very little nourishment. A peculiar vegetable principle, called asparagin, has been found in this

Die principle, called asparagin, has been found in this plant. See Asparagin.

[ASPARAGUS STONE. This is one of the varieties of the phosphate of lime. Vauquelin found it to contain lime 54.28, phosphoric acid 45.72; by which analysis it appears to differ but little from Apatite, the other variety, which see. A.]

ASPA'SIA. (From α, for αμα, together, and σπαω, to draw.) A constrictive medicine for the pudendum nutifere. Capring.

uliebre. Capivac. ASPER. Rough.

ASPER. Rough. Applied to parts which are rough, as linea aspera, &c.
In the language of botany, scaber and asper are

used synonymously ASPER CAULIS. Caulis scaher. Scabrous stem; is when it is thickly covered with papille which are not visible, but can be felt when running the finger along

it; as in Galium aperine, Lithospermum arvense, et; as in traction operation of the inequality

Centairea nigra, &c.

ASPERA ARTERIA. (So called from the inequality
of its cartilages.) See Trachea.

ASPERIFOLIZE. (From asper, rough.) Roughleaved plants. The name of a class and of an order
of plants given by Boerhaave, Ray, Linnæus, &c.

ASPERULA. (A diminutive of asper, the seeds
being rough.) The name of a genus of plants in the
Linnæan system. Class, Tetrandria; Order, Mono-

ASPERULA ODORATA. The systematic name for the officinal matrisylva. Woodruff. It is a low umbelliferrous plant, growing wild in woods and copses, and flowering in May. It hath an agreeable odour, which is much improved by moderate drying; the taste is a little austere. It imparts its flavour to vinous liquors; and is commended as a cordial and deobstruent remedy.

ASPHALTI'TIS. 1. A kind of trefoil.

ASPHALTUAN: Asphaltus, This substance, like-Wise called Bitumen Judaicum, or Jews' Pitch, is a smooth, hard, brittle, black or brown substance, which breaks with a polish, melts easily when heated, and when pure burns without leaving any ashes. It is found in a soft or liquid state on the surface of the Dead sea, but by age grows dry and hard. The same kind of bitumen is likewise found in the earth in other hand of bitumen is incernic found in the earth in other parts of the world; in China; America, particularly in the island of Trinidad; and some parts of Europe, as the Carpathian hills, France, Neufchatel, &c.

According to Neumann, the asphaltum of the shops is a very different compound from the native bitumen;

is a very different compound from the native bitumen; and varies, of course, in its properties, according to the nature of the ingredients made use of in forming it. On this account, and probably from other reasons, the use of asphaltum, as an article of the materia medica, is totally laid aside.

The Egyptians used asphaltum in embalming, under the name of mumia mineralis, for which it is well adapted. It was used for mortar at Babylon.

This bitumen is day and solid and usually very

adapted. It was used for mortar at Babyton.

[This bitumen is dry and solid, and usually very brittle, but often too hard to receive an impression from the finger nail. In some varieties its fracture is remarked, and shining with a resinous more or less conchoidal, and shining with a resinous nore or less conchoidal, and shining with a resinous lustre; in others, it is earthy, or uneven, or nearly dull. The earthy variety is less hard than the others, and seems to be intermediate between Maltha and the harder kinds of Asphaltum.—Cl. Min.

The ancient bricks of Babylon, several of which I have lad the best opportunities to examine, have a portion of butumen adhering to them. This is black, and emits, by burming, a somewhat aromatic vapour. It appears to have lost none of its peculiar qualities, the state of the several content of the property of the several content of the several

first incorporated as a cement, in the walls and towers constructed by the ancient inhabitants of Shinaar.
The specimens I possess of modern bitumen from Bosrah, or its vicinity, are substantially the same with that used of old.

Asphaltum of St. Antonio, at the western extremity of Cuba, is compact, deep black, and capable of supporting a flame when heated and set on fire. That from Trinidad island is not so pure; but is stated to be much more abundant. Specimens from St. Stephens, near the Alabama river, were sent me by Mr. Magoffin.—Mitchill's Notes to Philips's Min. A.] ASPHO'DELUS. (Asphodelus, i. m. from acrus, a scrpent, and ōxiλos, fearful; because it destroys the venom of serpents or from σποτλολος, sales, because it was formerly sown upon the graves of the dead.)

1. The name of a genus of plants in the Linnean system. Class, Hexandria, Order, Monogymia.

2. The pharmacopaial name of the daflodil. See Asphodelus ramosus. Asphaltum of St. Antonio, at the western extremity

Asphodelus ramosus.

Asynometus ramosus. The systematic name for the officinal, or branched asphodel. Asphodelus: caulenudo, foliis enciformibus, carinatis, lavibus, of Linnæus. The plant was formerly supposed to be effi cacious in the cure of sordid ulcers. It is now wholly

tain asue. ASPHYXIA. (Asphyxia, e, f.; from a, priv. and  $\sigma\phi\nu f(c, a \text{ pulse}.)$  The state of the body, during life, in which the pulsation of the heart and arteries cannot be perceived. There are several species of asphyxia

be perceived. There are several species of asphyxia enumerated by different authors. See Syncope. Aspidisons. (From aσπις, a buckler.) The sphinoter muscle of the anus was formerly so called from its shape.—Celius Aurelianus.
[ASPINWALL, WILLIAM, M. D. was born in Brookline, Mass., on the 23d of May, (old style.) 1743. His ancestors emigrated from England about the year 1113 ancestors emigrated from England about the year 1630. He was fitted for College by the Rev. Amos Adams, minister of Roxbury, and was graduated at Harvard University, in 1764. It was the personal interest which he took in the revolutionary contest, acting upon a mind deeply imbued with a sense of acting upon a mind deeply imbued with a sense of his country's wrongs, that gave strength and tone to his sentiments in after life. Dr. Aspinwall's language on political subjects was bold and strong, his creed being that of a democratic republican. In the unhappy seenes of party excitement, he unwaveringly adhered to what he deemed original and fundamental princito what he deemed original and fundamental princi-ples; but he aimed to preserve a good conscience, and to do justice to the honest opinions, the pure motives, and undoubted integrity of his opponents. He was not a political persecutor; and, when he was in the councils of the State, resolutely declined acting with his coadjutors, who were disposed to drive from office incumbents, whose only fault was what they deemed political become political heresy

After the death of the eminent and distinguished Dr. Zabdiel Boylston, the first inoculator of small-pox in America, Dr. Aspinwall established himself in that in America, Dr. Aspinwall established himself in that undertaking, and erected hospitals for that purpose in Brookline. Perhaps no practitioner in the United States ever inoculated so many persons, or acquired such skill and celebrity in treating this malignant disease, as Dr. Aspinwall. Besides his practice in this disorder when it generally spread, he was allowed, after the year 1788, to keep a hospital open at all times, to which great numbers resorted, and from which they returned with warm expressions of satisfaction. He continued in the successful treatment of this disease, till the general introduction of vaccine inoculation. He had made ample accommodation for enlarged practice, and established what might have been justly deemed a sure foundation for proshave been justly deemed a sure foundation for pros-perity, when vaccine inoculation was first introduced. perity, when vaccine inoculation was first introduced. He well knew that if vaccination possessed the virtues ascribed to it, his schemes of fortune and usefulness arising from inoculation at his hospital, were ruined; that he should be involved in loss, and his anticipations of fortune would be blasted. But as an honest man and faithful physician, he deemed it his duty to inquire into the efficacy of the novel substitute. With the utmost alacrity, therefore, he gave the experiment a fair trial, promptly acknowledged its efficacy, and relinquished his own establishment. The foregoing is corroborated by the following statement, recently made by Dr. Waterhouse, in the Medical Intelligencer.

"The late Dr. Aspinwall, a man of great suggesty and uncommonly well grounded in the principles of his profession, gave evidence of it on the first sight of and theomhonly well grounded in the punciples of his profession, gave evidence of it on the first salt of a vaccine pustule. I had invited all the cheter physicians of Boston, and the vleinity of Cambridge, to see the first vaccine pustules ever raised to the new world. They gave them the ordinary inspection on the skin; all but Dr. Aspinwall, whose attention was rivetted on the pustule, its arcola, and editorescence. He came a second time, and viewed the inoculated part in every light, and reviewed it, and scenned loath to leave the sight of it. He seemed wrapped in serious thought, and said repeatedly—"This pustule is so like small-pox, and yet it is not small-pox, that should it, on scabbing, take out a portion of the true skin, so as to leave an indelible mark or pit behind, I shall be ready to conclude that it is a mild species of small-pox, hitherto unknown here." He had been in the liabit of examining the small-pox pimple and pustule through glasses, to know if it 'had taken,' and he remarked, that they were peculiar, unique, and unlike remarked, that they were peculiar, unique, and unlike any other eruption he ever saw; but that this kine-pock came the nearest to it. Some time after, I gave him a portion of the virus to make his own experiments, and observe the progress of its inoculation, and coincidence of the constitutional symptoms; when and concidence of the constitutional symptoms, when he observed, that its progress, febrile affection, and mode of scabbing, were very tike small-pox, and so of the indelible mark left on the arm, yet, throughout the whole visible affection, different. To crown the whole of his honourable conduct, he some time after took all those of my family whom I had vaccinated, into his small-pox hospital, the only licensed one in the state, and there tested them to his satisfaction, and one to the very verge of rigid experiment: and then hesaid to me and others—'This new inoculation of yours is no sham. As a man of humanity, Irripice in it; although it will take from me a handsome annual income.' His conduct throughout was so strongly marked with superior intelligence, generosity, and honour, as to excite my esteem and respect; and I accordingly dedicate this effusion of gratitude to the memory of the Hon. William Aspinwall, M. D.; a gentleman respectable in public life as a coursellor, and an honour to his profession as a physician.' he observed, that its progress, febrile affection, and

genteman respectation in profession as a comession, and an honour to his profession as a physician."—
Thack. Med. Biog. A.]
ASPLETNIUM. (Asplenium, ii. n.; from a, priv. ann, the spicen; because it was supposed to remove disorders of the spicen.) The name of a genus of plants in the Linnwan system. Class, Cryptogamia;

Order, Filices

ASPERIUM CETERACH. The systematic name of the herb spleenwort. Miltwaste. Scolopendria vera; Dorodilla. This small bushy plant, Asplenium—frondibus primatifidis, labis alternis confluentibus obtusis of Linnæus, grows upon old walls and rocks. It has an herbaccous, mucilaginous, roughish taste, and is recommended as a pectoral. In Spain it is given, with great success, in nephritic and calculous diseases.

ASPLENIUM RUTA MURARIA. The systematic name

Asplenium ruta muraria. The systematic for the ruta muraria of the pharmacopæias. supposed by some to possess specific virtues in the cure ulcers of the lungs, and is exhibited in the form of

ASPLENIUM SCOLOPENDRIUM. The systematic name ASPLEMBUM SCOLOFEMBRIUM. The systematic name for the scolopendrium of the pharmacopedias. Phillits: Lingua ceroina. Harts-tongue. This indigenous plant, Asplemium—frondbus simplicibus, cerdalo tingulatis, indegerminis; stipritios hirsuits of Lumans: grows on most shady banks, walls, &c. It has a sightly astringent and muchlaginous sweetish taste. When frest and rubbed, it imparts a disagreeable sincil. Harts-tongue, which is one of the five capillary technical information and the vision of the five capillary technical information and the strength used to strengthen the vision. herbs, was formerly much used to strengthen the viscea, restrain hemorrhages and alvine fluxes, and to open obstructions of the liver and spleen, and for the general purpose of demulcents and pectorals.

ASPERMENT TECHNOLARIS. The systematic name

general purposes of demuteents and pectotass.

Aspression Tecnologians. The systematic name
for the trichomanes of the pharmacoperias. Common
maiden-hair or spiceswort. Asplenium—froutishs
pinnatis, pinnis subrotonidis, crenutis of Linnaus.
This plant is admitted into the Edinburgh Pharmacoperia: the leaves have a mudaginous, sweetist, subastringent taste, without any particular flavour they
are esteemed useful in disonlers of the breast, being
supposed to promote the expectoration of longfil supposed to promote the expectoration of longh phlegm, and to open obstructions of the viscera 100

ASS See A. inus

Assana A shrub found on the coast of Guinea, the Assana A shrub found on the coast of Guine leaves or which are supposted to disperse lubous, ASSAFCETUDA See Feedla assaflatida. ASSARABACCA See Assarum European.

Assa'rium. A Roman measure of twelve ounces.
Assarting sis. Articulation.

Assartino sis. Afficiation.

ASSAPY. Essay. This operation consists in determining the quantity of valuable or precious metal contained in any mineral or metallic mixture, by analyzing a small part thereof. The practical difference between the analysis and the assay of an ore, consists in this: The analysis, if properly made, determines the nature and quantities of all the parts of the compound; whereas the object of the assay consists in ascertaining how much of the particular metal in question may be contained in a certain determinate quantity of the material under examination. Thus, in the assay of gold or silver; the baser metals are considered as of no value or consequence; and the problem to be resolved is simply, how much of each is contained in the ingot or piece of metal intended to be

ASSIMULA'TION. (Assimilatio, from ad, and similis, to make like to.) The conversion of the food into nutriment.

Assiste'ntes. (From ad, and sisto, to stand near.) A name of the prostate glands, so called because they lie near the bladder. (From ad, and sisto, to stand near.)

ARSO'DES. (From agaupat, to nauscate, or from assare, to burn.) Asodes. A continual fever, attended

with a loathing of food. with a loathing of 100d.

A'STACUS. (Astacus, i. m.; from a, neg. and yago, to distij; so called from the hardness and dryness of its shell.) The name of a genus of shell-fish. Astacus fluviaturs. The officinal crevis, or cray-fish. See Cancer astacus.

Astacus markinus. The lobster. See Cancer gam-

A'STAPSIS. (From ςαφις, uva passa.) A raisin.
ASTERA'NTIUM. (From αςηρ, a star.) The pellitory; so called from its star-like form. See Anthemis pyrcthrum.

ASTERICHM. (From the star-like appearance of the flowers.) The pellitory. See Anthemis pyrethrum.

ASTHE'NIA. (From a, priv. and σθενος, strength.) Extreme debility. The asthenic diseases form one great branch of the Brunonian arrangement.

ASTHENOLOGY. (Asthenologia, α. f.; from a, priv. and σθενος, strength, and λογος, a treatise.) The doctrine of diseases arising from debility. The disciples of the Brunonian school, as they denominate themselves, maintain peculiar opinions on this subject. A 'STHIMA. (Asthma, matis, neut.: from συρμάζο, to breathe with difficulty.) Difficult respiration, returning at intervals, with a sense of stricture across the breast, and in the lungs; a wheezing, land cough, at first, but more free towards the close of each paroxysm, with a discharge of menus, followed each paroxysm, with a discharge of mucus, followed by a remission. It is ranked by Cullen in the class Neurosca, and order Spasmi. There are, according to him, three species of asthma.—

1. Asthma spontaneum, when without any manifest

Asthma plethoricum, when it arises from plethora. Asthma exanthematicum, originating from the re-

pulsion of some aerid humour pulsion of some acria minimor.

Asthma rarely appears before the age of puberty, and seems to attack men more frequently than women, particularly those of a full habit, in whom it never talls, by frequent repetition, to occasion some degree of emaciation. In some instances, it arises from an hereditary predisposition, and in many others, it seems to depend upon a particular constitution of the lungs. to depend upon a particular constitution of the lungs. Dyspensia always prevails, and appears to be a very prominent feature in the predisposition. Its attacks are most frequent during the heats of summer, in the dog days, and in general commence about modught. On the evening preceding an attack of astimus, the spirits are often much affected, and the person experiences a sense of fainess about the stomach, with its study, drowsiness, and a pair in the head. On the approach of the succeeding evening, he perceives a sense of technics and stricture across the breast, and a sense of stratures in the lungs, impeding inspiration. The difficulty of breading continuing to increase for The difficulty of breathing continuing to increase for

some length of time, both inspiration and expiration are performed slowly, and with a wheezing noise; the speech becomes difficult and uneasy, a propensity to coughing succeeds, and the patient can no longer remain in a horizontal position, being as it were threat-ened with immediate suffication. These symptoms usually continue till towards the approach of morning, and then a remission commonly takes place; the ing, and then a remission commonly takes place; the breathing becomes less laborious and more full, and the petson speaks and coughs with greater case. If the cough is attended with an expectoration of mucus, he experiences much relief, and soon alls asleep. When he awakes in the morning, he still reels some degree of tightness across his breast, although his breathing is probably more free and easy, and he cannot bear the least motion, without rendering this more real managements and measure another can be consumed to the constraint and measure another can be consumed to be a supplied to the constraint and measure another can be consumed to be a supplied to the constraint and measure another can be consumed to be a supplied to the constraint and measure and the case has consumed to be a supplied to the constraint and not bear the least motion, without rendering this more chilenit and ancasy; nerther can be continue in bed, unless his lead and shoulders are raised to a considerable height. Towards evening, he again becomes drowsy, is much troubled with flatulency in the stomach, and perceives a return of the difficulty of breathing, which continues to increase gradually, till it becomes as violent as on the night before. After some nights passed in this way, the fits at length moderate, and suffer more considerable remissions, partrentarly when they are attended by a copious expec-toration in the mornings, and this continues from time to time throughout the day; and the disease going off at last, the patient enjoys his usual rest by night, with-out further disturbance. The pulse is not necessarily affected in this disease, though often quickened by the difficulty of breathing; and sometimes slight pyrexia attends. In plethoric habits, the countenance is flushed and torgid during the fit; but in others rather pale and shrunk in the former, too, some difficulty of breathing and wheezing usually remain in the interval; in others the recovery is more computer. (In this is ticularly when they are attended by a copious expecin others the recovery is more complete. On this is founded the common distinction of asthma into the humid, pituitous, or catarrhal, and the dry, spasmodic, or nervous forms. The exciting causes are various: accumulation of blood, or viscid mucus in the lungs, noxious vapours, a cold and foggy atmosphere, or a close hot air, the repulsion of eruptions, or other metastatic diseases, flatulence, accumulated fæces, viofent passions, organic diseases in the thoracic viscera, Sec. Sometimes the fits return at pretty regular periods; and it is generally difficult to obviate future attacks, when it has once occurred, but it often continues to recur for many years, and seldom proves fatal, except as inducing hydrothorax, phinisis, &c. The treatment must vary according to the form of the description of the des The treatment must vary according to the form of the disease. In young persons of a picthoric habit, with great dyspnea, a tlushed countenance, accelerated pulse, &c. the abstraction of blood will be found to afford marked relief; but under opposite circumstances, it might be highly injurious, and we should always avoid repeating it unnecessarily. In ambiguous cases, cupping may be preferred, or leeches to the chest, with blisters. Mild cathartics should also be employed; or where consiveness appears to induce the fits, those of a more active nature. Nauseating emetics are of considerable service, especially where the patient is distressed with viscid mucus, not only by promoting perspiration and expectoration, but also by their antispasmodic power, the return of a paroxysm may often be prevented by their timely use. Squill combined with ipecacunha is one of the best forms. Where the disease is of the purely spasmodic character, opium will be found the most powerful palliative remedy, especially if combined with getter the chest power. remedy, especially if combined with æther, though it unfortunately loses some of its power by repetition; the fettid gum resins are also useful, particularly where the firtid gum resins are also useful, particularly where the bowels are torpid; and other antispasmodies may be occasionally employed. The practice of smoking, or chewing tobacco, has sometimes appeared extremely beneficial; and a cup of strong coffee has often afforded speedy relief. Means should also be employed for strengthening the system; and where there appears a tendency to serous effusion, digitalis may be very useful. But by far the most important part of the treatment consists in obytating or removing the several exciting consists in obviating or removing the several exciting causes, whether operating on the lungs immediately, or through the medium of the prime vie, &c. Individual experience can alone ascertain what state of the atmosphere as to temperature, dryness, purity, &c. shall be most beneficial to asthmatics, though a good deal depends on habit in this respect, but a due regu-

lation of this, as well as of the diet, and other parts of regimen, will usually afford more permanent relief than any medicines we can employ.

A'STITES. (From ad, and sto, to stand near.) A name given by the ancients to the prostate clands, because they are situated near the bladder.

ASTRA GALUS. (Astragalus, i. m.; Aspayado, a cockle, or die; because it is shaped like the die used in ancient games.) I. The ankle-bone; a bone of the tarsus, upon which the tibia moves. Also called the sling-bone, or first bone of the loot. Baltiste us; aristrios; talus; quatrio; tetroros; cavicula; cavilla; diabebos; peza. It is placed posteriorly and superiorly in the tarsus, and is formed of two parts, one large, which is called its body, the other small, like a process. The part where these two unite is termed the neck.

neck.

2. The name of a genus of plants in the Linnean system. Class, Diadelphia; Order, Decandria.

Astragalus excapus. Stemless milk-vetch. The not of this plant, Astragalus acaulis excapus;—legu-membus buantis; folius villosis of Linnaus, is said to cure confirmed syphilis, especially when in the form

of nodes and nocturnal pains.

Astracalus Tragacantha. The former systematic name for the plant which affords the gum traga-

cantle. See Astragalus verus

canti. See Astragalus verus.

Astragalus verus. Goat's thorn. Milk-vetch.

Spina hiroi; Astragalus tragacanthu; Astragalus

aculcatus. We are indebted to a French traveller, of
the name of Olivier, for the discovery that the gum

tragacanth of commerce, is the produce of a species of

astragalus not before known. He describes it under the

name of astragalus verus, being different both from A. name of astragatus verus, being different both from M. tragacantha of Linnaws, and from the M. gummejera of Labillardiere. It grows in the North of Persia. Cum-tragacanth, or gong drugant, or dragon, (which is forced from this plant by the intensity of the solar rays, is concreted into irregular lumps or vernicular pieces, bent into a variety of shapes, and larger or pieces, bent into a variety of shapes, and larger or smaller proportions, according to the size of the wound from which it issues,) is brought chiefly from Turkey, in irregular lumps, or long vernicular pieces bent into a variety of shapes: the best sort is white, semi-trans-parent, dry, yet somewhat soft to the touch. Gum-tragacanth differs from all the other known

Gum-tragacanth differs from all the other known gums, in giving a thick consistence to a nuch larger quantity of water; and in being much more difficultly soluble, or rather dissolving only imperfectly. Put into water, it slowly imbibes a great quantity of the liquid, swells into a large volume, and forms a soft but not fluid mucilage; if more water be added, a fluid solution may be obtained by agitation but the liquor looks turbid and wheyish, and on standing, the precilage subsides the liquid water on the surface. liquor looks turbid and wheyish, and on standing, the mucilage subsides, the limpid water on the surface retaining little of the gum. Nor does the admixture of the preceding more soluble gums promote its union with the water, or render its dissolution more durable: when gum-tragacanth and gum-arabic are dissolved together in water, the tragacanth separates from the mixture more speedily than when dissolved by itself. Tragacanth is usually preferred to the other gums for making up troches, and other like purposes, and is supposed likewise to be the most effectual as a medicine: but on account of its imperfect solubility, is

ine: but on account of its imperfect solubility, is unfit for liquid forms. It is commonly given in powder, with the addition of other materials of similar intention; thus, to one part of gum-tragacanth are added one of gum-arabic, one of starch, and six of

sugar. According to Bucholtz, gum-tragacanth is composed of 57 parts of a matter similar to gum-arabic, and 48 parts of a peculiar substance, capable of swelling in

parts of a peculiar substance, capable of swelling in cold water without dissolving, and assuming the appearance of a thick jelly. It is soluble in boiling water, and then forms a mucilaginous solution.

The demulcent qualities of this gum are to be considered as similar to those of gum-arabic. It is seldom given alone, but frequently in combination with more powerful medicines, especially in the form of troches, for which it is peculiarly well dapted: it gives name to an officinal compound powder, and was an ingredient in the compound powder of ceruses.

ASTRA NTLA. (From ant poy, astrum, a star; so called from the star-like shape of its flowers.) The name [of a genus of plants in the Linnaan system. Class, Pentandria; Order, Dygmia.

ASTRANTIA MAJOR. Astrantia nulgaris.
Astrantia nigra. The herb samicle master-wort.

Astrantia nigra. The herb santile master-worl.

A rustic purge in the time of Gerard.

A 'stra.gr. (From agoar/lo, to corruscate.) Lightning. Galen rockons it among the remote causes of

ASTRICTUS. (From astringo, to bind.) When applied to the belly, it signifies costiveness; thus,

ASTRI'NGENT. (Astringens; from astringo, to constringe.) Adstringent. That which, when applied to the body, renders the solids denser and firmer, by to the body, fenders the solids denser and firmer, by contracting their fibres, independently of their living, or muscular power. Astringents thus serve to diminish excessive discharges; and by causing greater compression of the nervous fibrille, may lessen morbid sensibility or irritability. Hence they may tend indirectly to restore the strength, when impaired by these causes. The chief articles of this class are the acids, alum, lime-water, chalk, certain preparations of cop-per, zinc, iron, and lead; the gallic acid, which is commonly found united with the true astringent princommonly found united with the true astringent principle, was long mistaken for it. Seguin first distinguished them, and, from the use of this principle in tanning skins, has given it the name of tanuen. Their characteristic differences are, the gallic acid forms a black precipitate with iron; the astringent principle forms an insoluble compound with albumen.

forms an insoluble compound with albumen. ASTRONO'MY. ("stetronomia," from acpor, a star, and ropos, a law.) The knowledge of the heavenly bodies. Hippocrates ranks this and astrology among the necessary studies of a physician. ASTRUC, John, a learned physician, born in France, 1681. He studied and took his degrees at Montpelier, and became afterward a professor there. In 1729, he was appointed physician to the king of Poland, but soon returned to his native country, was made consulting physician to the French king, and professor of medicine at Paris, where he attained great celebrity. He was author of numerous medical and philosophical works, but especially one "on Vegreat celebrity. He was author of numerous medical and philosophical works, but especially one "on Venereal Diseases," which deservedly became extremely popular, and was translated into various modern languages. He lived to the advanced age of 82.

ATA XIA. (From a, neg, and rasow, to order.) Want of regularity in the symptoms of a disease, or of the functions of an animal body.

ATE CONIA. (From a, neg, and rikra, to bring forth.) Venereal impotency: inability to procreate children.

ATHAMANTA. (Athamanta, e. fem; so named from Athamas in Thessaly.) The name of a genus of plants in the Linnwan system. Class, Pentandria;

Order, Digynia

ATHAMANTA CRETENSIS. The systematic name for the daucus creticus of the pharmacopeias. Myrrhus annua. Candy carrot. The seeds of this plant, Athamanta—foliolis linearibus planis, hirsutis; peta-lis bipartitis; seminibus oblongis hirsutis, of Lin-us, are brought from the isle of Candy: they have an aromatic smell, and a slightly-biting taste; and are occasionally employed as carminatives, and divertice; undersuce of the niver. diuretics in diseases of the primæ viæ and urinary

passages.

ATHAMANTA OREOSELINUM. The systematic name for the officinal oreoselinum. Black mountain parsley. The root and seed of this plant, Athamanta—foliolic divarrentis of Linnaus, as well as the whole herb, were formerly used medicinally. Though formerly were formerly used medicinally. Though formerly in so high estimation as to obtain the epithet of polychresta, this plant is seldom used in the practice of the present day. An extract and tineture prepared from the root were said to be attendant, aperient, deobstruent, and lithoutriptic. The oil obtained by distillation from the seed was esteemed to allay the toothache; and the whole was recommended as an antiscorbutic and corroborant.

ATHAMANTICUM. See Æthusa meum.

ATHANA'SIA. (From a, priv. and Savaros, death; so called because its flowers do not wither easily.) I. The immortal plant. A name given to tansy; because when stuffed up the nose of a dead corpse, it is said to prevent putrefaction. See Tanacetum vulgure

2. It means also immortality.

3. The name of an antidote of Galen, and another of Oribasius.

4. It is the name also of a collyrium described by 4. It is the name also of a contyrinin described by Actius, and of many other compositions.

A'THARA. (From alpho, corn.) A panada, or pap for children, made of bruised corn.

ATHERO MA. (Atheroma, atis, n. Alipopa, pulse, pap.) An encysted tumour that contains a soft substance of the consistence of a poultice.

ATHRIX. (ASpit, debilis, weak.)

Weakness.

2. (From a, priv. and θριζ, a pair.) Baldness. ATHY'MIA. (From a, neg. and θυμος, courage.)

1. Pusillanimity. Despondency or melancholy

A'TLAS. (Atlas, antis, m.; from ATAaw, to sus-A TLAS. (Atlas, antis, m.; from Ar\u03c4ao, to sustain, because it sustains the head; or from the fable of Atlas, who was supposed to support the world upon his shoulders.) The name of the first vertebra. This vertebra differs very much from the others. See Vertebra. It has no spinous process which would prevent the neck from being bent backwards, but in its place it has a small eminence. The great foramen of this is much larger than that of any other vertebra. Its body, which is small and thin, is, nevertheless, firm and hard. It is sunewhat lifes a rine, and is disting. and hard. It is somewhat like a ring, and is distinand hard. It is somewhat like a ring, and is distinguished into its great arch, which serves in the place of its body, and its small posterior arch. The atlas is joined superiorly to the head by ginglymus; and inferiorly, to the second cervical vertebra, by means of the inferior oblique processes, and the odontoid process by trachely and the processes.

ATMOMETER. The name of an instrument to measure the quantity of exhalation from a humid sur-

face in a given time

lace in a given time. A TMOSPHERE. (Atmosphera, a. f.; from  $\alpha\tau\mu\sigma$ , vapour, and  $\sigma\phi\alpha\iota\rho a$ , a globe.) The elastic invisible fluid which surrounds the earth to an unknown height, and encloses it on all sides. Neither the properties nor the composition of the atmosphere, seem to have occupied much the attention of the ancients. Aristotle considered it as one of the four elements, situated totle considered it as one of the four elements, situated between the regions of water and five, and mingled with two exhalations, the dry and the moist; the first of which occasioned thunder, lightning, and wind; while the second produced rain, snow, and hail.

The opinions of the ancients were vague conjectures, until the matter was explained by the sagacity of Hales, and of those philosophers who followed his

Boyle proved beyond a doubt, that the atmosphere contained two distinct substances:—

1. An elastic fluid distinguished by the name of air.

2. Water in a state of vapour.

Besides these two bodies, it was supposed that the

atmosphere contained a great variety of other substances which were continually mixing with it from stance which were contained that the earth, and which often altered its properties, and rendered it noxious or fatal. Since the discovery of carbonic acid gas by Dr. Black, it has been ascertained that this elastic fluid always constitutes a part of the

The constituent parts of the atmosphere, therefore,

l. Air. 2. Water. 3. Carbonic acid gas. 4. Unknown bodies.

1. For the properties, composition, and account of the first, see  $\hat{A}ir$ .

2. Water.-That the atmosphere contains water, 2. Water.—I mit the authorphies contains which has been always known. The rain and dew which so often precipitate from it, the clouds and fogs with which it is often obscured, and which deposite moisture on all bodies exposed to them, have demonstrated its on all bodies exposed to deep may consistency existence in every age. Even when the atmosphere is perfectly transparent, water may be extracted from it in abundance by certain substances. Thus, if concentrated sulphuric acid be exposed to air, it gradually attracts so much moisture, that its weight is increased more than three times: it is converted into diluted more than three times: It is converted into diffused acid, from which the water may be separated by distillation. Substances which have the property of abstracting water from the atmosphere, have received the epithet of hygroscopic, because they point out the presence of that water. Sulphuric acid, the fixed alkalies, muritate of lime, nitrate of lime, and, in general, all delinuscent sails, necesses, this property. The ral, all deliquescent salts, possess this property. The greater number of animal and vegetable bodies likewise possessit. Many of them take water from moist air, but give it out again to the air when dry. These bodies

augment in bulk when they receive moisture, and diminish again when they part with it. Hence some of them have been employed as kygrometers, or measures of the quantity of moisture contained in the air around them. This they do by means of the increase or diminution of their length, occasioned by the addition or abstraction of moisture. This change of length is precisely marked by means of an index. The most ingenious and accurate hygrometers are those of Saussure and Deluc. In the first, the substance employed to mark the moisture is a human hair, which by its to mark the moisture is a human hair, which by its contractions and dilatations is made to turn round an contractions and dilatations is made to turn round an index. In the second, instead of a hair, a very fine thin slip of whalebone is employed. The scale is divided into 100°. The beginning of the scale indicates extreme dryness, the end of it indicates extreme moisture. It is graduated by placing it first in air made as dry as possible by means of salts, and afterward in air saturated with moisture. This gives the extremes of the scale, and the interval between them is divided into 100 equal parts.

The water, which constitutes a component part of The water, which constitutes a component part of the atmosphere, appears to be in the state of vapour, and chemically combined with air in the same manner as one gas is combined with another. As the quantity of the water contained in the atmosphere varies considerably, it is impossible to ascertain its amount with any degree of accuracy.

any degree of accuracy.

1 3. Carbonic acid gas.—The existence of carbonic gas as a constituent part of the atmosphere, was observed by Dr. Black immediately after he had ascertained the nature of that peculiar fluid. If we expose a pure alkali or alkaline earth to the atmosphere, it is gradually converted into a carbonate by the absorption of carbonic acid gas. This fact, which had been long known, rendered the inference that carbonic acid gas existed in the atmosphere unavoidable, as soon as the difference between a pure alkali and its carbonate had heen ascertained to depend upon that acid. Not only alkalies and alkaline earths absorb carbonic acid when exposed to the air, but several of the metallic oxydes also

Carbonic acid gas not only forms a constituent part of the atmosphere near the surface of the earth, but at the greatest heights which the industry of man has been able to penetrate. Saussure found it at the top been able to penetrate. Saussure found it at the top of Mount Blanc, the highest point of the old continent; a point covered with eternal snow, and not exposed to the influence of vegetables or animals. Lime-water, diluted with its own weight of distilled water, formed a pellicle on its surface after an hour and three-quarters exposure to the open air on that mountain; and slips of paper moistened with pure potash, acquired the property of effervescing with acids after being exposed an hour and a half in the same place. This was at a height no less than 15,665 feet above the level of the sea. Humboldt has more lately ascertained the existence of this gas in air, brought by Mr. Garnerin from a height not less than 4280 feet above the surface of the earth, to which height he had risen in an air-bal-loon. This fact is a sufficient proof that the presence of carbonic acid in air does not depend upon the vicinity of the earth.

Now, as carbonic acid gas is considerably heavier than air, it could not rise to great heights in the atmosphere unless it entered into combination with the air. sphere unless it entered into combination with the air.
We are warranted, therefore, to conclude, that carbonic acid is not merely mechanically mixed, but that it is chemically combined with the other constituent parts of the atmosphere. It is to the affinity which exists between carbonic acid and air that we are to ascribe the rapidity with which it disperses itself through the atmosphere, notwithstanding its great specific gravity. Fontana mixed 20,000 cubic inches of carbonic acid gas with the air of a close room, and yet half an hour after he could not discover the traces of carbonic acid, when exposed to the air, very soon loses the whole of the combined gas. And when a phial full of carbonic acid gas is left uncorked, the gas, as Bergman first ascertained, very soon disappears, and the phial is found filled with common air.

Bergman first ascertained, very soon disappears, and the phiat is found filled with common air.

The difficulty of separating this gas from air, has hitherto prevented the possibility of determining with accuracy the relative quantity of it in a given bulk of air. but from the experiments which have been made, we may conclude with some degree, of confidence, that

it is not very different from 0.01. From the experiments of Humbolds, it appears to vary from 0.005 to 0.01. This variation will by no means appear improbable, if we consider that immense quantities of carbonic acid gas must be constantly mixing with the atmosphere, as it is formed by the respiration of animals, by combustion, and several other processes which are going on continually. The quantity, indeed, which is daily formed by these processes is so great, that at first sight it appears assonishing that it does not increase rapidly. The consequence of such an increase would be fatal, as air containing 0.1 of carbonic acid extinguishes light, and is destructive to animals. But there is reason to conclude, that this gas is decomposed

extinguishes light, and is destructive to animals. But there is reason to conclude, that this gas is decomposed by vegetables as rapidly as it forms.

4. Bodies found in the atmosphere.—From what has been advanced, it appears that the atmosphere consists chiefly of three distinct elastic fluids united together by chemical affinity; namely, air, vapour, and carbonic acid gas; differing in their proportions at different times and in different places; the average monoriting of each is. proportion of each is,
98.6 air

1.0 carbonic acid 0.4 water 100.0

But besides these bodies, which may be considered as the constituent parts of the atmosphere, the existence of several other bodies has been suspected in it. It is not of several other bodies has been suspected in it. It is not meant in this place to include among those bodies electric matter, or the substance of clouds and fogs, and those other bodies, which are considered as the active agents in the phenomena of meteorology, but merely those foreign bodies which have been occasionally found or suspected in air. Concerning these bodies, however, very little satisfactory is known at present, as we are not in the possession of instruments sufficiently delicate to ascertain their presence. We sufficiently delicate to ascertain their presence. We can indeed detect several of them actually mixing with air, but what becomes of them afterward we are unable to say,

I. Hydrogen gas is said to have been found in air situated near the crater of volcanoes, and it is very possible that it may exist always in a very small proportion in the atmosphere, but this cannot be ascertained

tion in the atmosphere, but this cannot be ascertained till some method of detecting the presence of hydrogen combined with a great proportion of air be discovered.

2. Carburetted hydrogen gas is often emitted by marshes in considerable quantities during hot weather. But its presence has never been detected in air; so that in all probability it is again decomposed by some

unknown process.

unknown process.

3. Oxygen gas is emitted abundantly by plants during the day. There is some reason to conclude that this is in consequence of the property which plants have of absorbing and decomposing carbonic acid gas. Now as this carbonic acid gas is formed at the expense of the oxygen of the atmosphere, as this oxygen is again restored to the air by the decomposition of the acid, and as the nature of atmospheric air remains unattered, it is clear that there must be an equilibrium between these two processes; that is to say, all the carbonic acid formed by combustion must be again decomposed, and all the oxygen abstracted must be again restored. The oxygen gas which is thus continually returning to the air, by combining with it, makes its component the air, by combining with it, makes its component parts always to continue in the same ratio.

The smoke and other bodies which are continually carried into the air by evaporation, &c. are probably soon depoited again, and cannot therefore be considered with propriety as forming part of the atmo-

5. There is another set of bodies, which are occasionally combined with air, and which, on account of the powerful action which they produce on the human body, have attracted a great deal of attention. These

are known by the name of contagions.

That there is a difference between the atmosphere in That there is a difference between the atmosphere in different places, as far as respects its effects upon the human body, has been considered as an established point in all ages. Hence some places have been celeptated as healthy, and others avoided as pernicious, to the human constitution. It is well known that in pits and unines the air is often in such a state as to sufficient almost instantaneously those who attempt to 162. breathe it Some places are frequented by peculiar diseases. It is known that those who are much in the apartments of persons ill of certain mediathes, an extremely apt to catch the infection; and in prisons and other places, where crowds of people are contined together, when diseases once commence they are wont together, when diseases once commence they are wont to make dreadful havoe. In all these cases, it has been supposed that a certain noxious matter is dis-solved by the air, and that it is the action of this matter which produces the mischef.

This novious matter is, in many cases, readily distinguished by the peculiarly disagreeable smell which it communicates to the air. No doubt this matter differs according to the diseases which it communicates, and the substance from which it has originated. Morveau lately attempted to ascertain its nature; but he soon found the chemical tests butherto discovered altogether insufficient for that purpose. He has put it beyond a do bt, however, that this contagious matter is of a compound nature, and that it is destroyed altogether by certain agents. He exposed infected air to the action of various bodies, and he judged of the re-sult by the effect which these bodies had in destroying the fettid smell of the air. The following is the result

of his experiments:

of his experiments:

1. Odorous bodies, such as benzoin, aromatic plants, &cc. have no effect whatever.

2. Neither have the solutions of myrrh, benzoin, &cc. in alkohol, though agitated in infected air.

3. Pyroligneous acid is equally inert.

4. Compowder, when fired in infected air, displaces a portion of it; but what remains, still retains its feeful odour.

5. Sulphuric acid has no returns its field odour. 5 Sulphuric acid has no effect; simplumous acid weakens the odour, but does not destroy it. Distilled vinegar diminishes the odour, but its action is slow and incomplete. 7. Strong acctic acid acis instantly, and destroys the fetid odour of infected air completely. 8. The furnes of nitric acid, first employed by Dr. Carmichael Smith, are equally effections. 9. Muriatic acid gas, first pointed out as a proper agent by Morveau limiself, is equally ineffectial. 10. But the most powerful agent is oxynutriatic acid gas, first proposed by Mr. Cruickshanks, and now employed with the greatest success in the British navy and military hossitals. navy and military hospitals.

Thus there are four substances which have the

property of destroying contagious matter, and of puriproperty of destroying contagious matter, and of puri-fying the air; but accide acid cannot easily be obtained in sufficient quantity, and in a state of sufficient con-centration to be employed with advantage. Nitric acid is attended with inconvenience, because it is almost always contaminated with nitrous gas. Muriatic acid aways consummed with untrous ggs. Muriatic acid and oxymuriatic acid are not attended with these inconveniences; the last deserves the preference, because it acts with greater energy and rapidity. All that is necessary is to mix together two parts of salt with one part of the black oxyde of manganese, to these the rightness in a perceive seed in the contraction. place the, mixture in an open vessel in the infected chamber, and to pour upon it two parts of sulphuric acid. The fumes of oxymuriatic acid are immediately

exhaled, fill the chamber, and destroy the contagion.

Ato'chia. (From a, neg. and rokos, offspring; from rukra, to bring forth.)—1. Inability to bring forth children. 2. Difficult labour.

ATOMIC THEORY. In the chemical combination of bodies with each other, it is observed that some unite in all proportions; others in all proportions as far unite in an proportions; others in an proportions are as a certain point, beyond which combination no longer takes place; there are also many examples, in which bodies unite in one proportion only, and others in several proportions; and these proportions are definite, and in the intermediate ones no combination ensues. And it is remarkable, that when gue body enters into combination with another, in several difference in the combination with another, in several difference in the combination of the proportions are defining the combination of the proportions are defining the combination with another, in several difference in the combination of the proportions are defined to the combination with another, in several difference in the combination of the proportions are defined to the combination of the proportions are defined to t enters into combination with another, in several dif-ferent proportions, the numbers indicating the greater proportions are exact simple multiples of that denoting the smallest proportion. In other words, if the smallest portion in which B combines with A, be denoted by Its, A may combine with twice It of B, or with three times Its, and so on; but with no intermediate quan-tities. Examples of this kind have of late so much increased in number, that the law of simple multiples hids fair to become universal with respect at least to chemical community. chemical compounds, the proportions of which are definite. Mr. Dalton has founded what may be termed the atomic theory of the chemical constitution of bodies. Till this theory was proposed, we had no adequate explanation of the uniformity of the propor-

tions of chemical compounds, or of the nature of the loss of chemical compounds, of or the fature of the cause which renders combination in other proportion-impossible. The following is a brief flustration of the theory. Though we appear, when we often the chemical minor of bodies, to operate on masses, yet it is consistent with the most faturant view of the constitution of bodies, to believe, that it is only between their ultimate particles, or atoms, that combination takes place. By the term atoms, it has been already stated, place. By the term atoms, it has been already stated, we are to understand the smallest parts of which bodies are composed. An atom, therefore, must be mechanically indivisible, and of course a fraction of an atom cannot exist, and is a contradiction in terms. Whether the atoms of different bodies be of the same size, or of different sizes, we have no sufficient evidence. The probability is, that the atoms of different bodies are of unequal sizes; but it cannot be determined whether there sizes have a conduct presenting. dence. - The probability is, that the atoms of different bodies are of unequal sizes; but it cannot be deter-nined whether then sizes bear any regular proportion to their relative weights. We are equally ignorant of their shape; but it is probable, though not essential to the theory, that they are spherical. This, however, requires a little qualification. The atoms of all bodies, probably consist of a solid corpuscle, forming a nucleus, and of an atmosphere of head, by which that corpused is surreunded, for absolute contact is never supposed to take place between the atoms of bodies. The figure of a single atom may therefore be supposed to be sphea single atom may therefore be supposed to be spherical. But in compound atoms, consisting of a single central atom surrounded by other atoms of a different kind, it is obvious that the figure (contemplating the kind, it is obvious that the neuro communicating the solid corpuscies only) cannot be spherical; yet if we include the atmosphere of heat, the figure of a com-pound atom may be spherical, or some shape approach-ing to a sphere. Taking for granted that combination takes place between the atoms of bodies only. Mr. Dalton has deduced from the relative weights in which bodies unite, the relative weights of their ultimate parbodies unite, the control tiefer of any two elementary bodies exists, he assumes, unless the contrary can be proved, that its elements are united atom to atom; single combinations of this sort he calls binary. But if several compounds can be obtained from the same elements, they combine, he supposes, in proportions expressed by some simple multiple of the number of atoms. The following table exhibits a view of these combinations

Atom of A+1 atom of B=1 atom of C, binary.
 Atom of A+2 atoms of R=1 atom of D, ternary.
 Atoms of A+1 atom of B=1 atom of E, ternary.
 Atom of A+3 atoms of B=1 atom of F, quaternary.
 Atoms of A+1 atom of B=1 atom of G, quaternary.

A different classification of atoms has been proposed by Berzelius, viz. into 1. Elementary atoms. 2. Compound atoms. The compound atoms he divides again into three different species; namely, 1st, Atoms formed of only two elementary substances, united or compound atoms of the first order. 2dily, Atoms composed of more than two elementary substances, and these, as they are only found in organic bodies, or bodies obtained by the destruction of organic matter, he calls of specific atoms. 2dily Atoms Council at the proposed by the destruction of organic matter, he calls ordanical orders. Sally, Atoms formed by the union of two or more compound atoms: as, for example, the salts. These he calls compound atoms of the second order. If elementary atoms or different kinds were of the same size, the greatest number of atoms of it that could be combined with an atom of B would be 12; for could be combined with an atom of B would be 12, for this is the greatest number of spherical bodies that can be arranged in contact with a sphere of the same diameter. But this equality of size, though adopted by Betzelius, is not necessary to the hypothesis of Mr. Dalton, and is, indeed, supposed by him not to exist. As an illustration of the mode in which the weight

of the atoms of bodies is determined, let us suppose that any two elementary substances, A and B, form a binary compound, and that they have been proved ex perimentally to unite in the proportion by weight, of five to the former, to four of the latter, then since (according to the hypothesis) they unite particle to particle, those numbers will express the relative weight of their atoms. But besides combining atom to atom singly, I atom of A may combine with 2 of B, or with singly, 1 and to a A may combine with 2 of A, or with 3, 1, &c. When such a series of compounds exists, the relative projection of their elements ought necessarily on analysis to be proved to be 5 of A to 4.

of B, or 5 to (1+4=) 8 or 5 to (1+4+4=) 12. &c., or contrarwise, 4 of B to 5 of A, or 4 to (5+5=) 10 or 4 to (5+5=) 15. Between these there ought to be no (5+5+5=) 15. Between these there ought to be no mermediate compounds, and the existence of any such (as 5 of A to 6 of B, or 4 of B to 7) of A) would, it clearly established, militate against the hypothesis. To verify these numbers, it may be proper to examine the combinations of A and B with some third substance, for example, with C. Let us suppose that A and C form a binary compound, in which analysis discovers 5 parts of A, and 3 of C. Then if C and B are also capable of forming a binary compound, the relative proportion of its elements ought to be 4 of B to 3 of C, for these numbers denote the relative weights of their atoms. Now this is precisely the method by which Mr. Dalton has deduced the relative weights of oxygen, hydrogen, and niprogen, the first two from the ovigen, hydrogen, and nitrogen, the first two from the known composition of water, and the last two from the proportion of the elements of ammonia. Extend-ng the comparison to a variety of other bodies, he has obtained a scale of the relative weights of their atoms. la several instances additional evidence is acquired of In several misances admironal evidence is acquired in the accuracy of the weight assigned to an element, by our obtaining the same number from an investigation of several of its compounds. For example, 1 In water, the hydrogen is to the exagen as 1 to 8. 2. In obtaining gas, the hydrogen is to the carbon as

3. In carbonic acid, the oxygen is to the carbon as

Whether, therefore, we determine the weight of the atom of carbon from the proportion in which it combines with hydrogen, or with oxygen, we arive at the range number 6, an agreement which, as it occurs in carrious other instances, can scarcely be an accidental comcidence. In similar manner, 8 is deducible, as representing the atom of oxygen, both from the combination of that base with hydrogen, and with carbon, and I is referred to be the relative weight of the atom of hydrogen, from the two principal compounds into which it enters. In selecting the body which should be assumed as unity, Mr. Dalton has been induced to its on hydrogen, because it is that body which unites with others in the smallest proportion. Thus in water, we have I of hydrogen, by weight, to 8 of oxygen; in ammonia, I of hydrogen to 14 of nitrogen; in carburetted hydrogen, I of hydrogen to 6 of carbon; and in subplorested hydrogen, I of hydrogen to 16 of sulphur. Taking for granted that all these bodies are binary compounds, we have the following scale of numbers expressive of the relative weights of the atoms of their elements: hydrogen, from the two principal compounds into elements

the third 100,) chiefly with a view to facilitate the esti-mation of its numerous compounds with other bodies. This perhaps is to be regretted, even though the change may be in some respects eligible, because it is extremely desirable that chemical writers should enextremely desirable that chemical writers should em-ploy a universal standard of comparison for the weights of the atoms of bodies. It is easy, however, to reduce the number to Mr. Dalton's by the rule of proportion. Thus, as 8, Mr. Dalton's number for oxy-gen, corrected by the latest experiments, is to 1, his number for hydrogen, so is 10, Dr. Wallaston's number for oxygen, 1.25 the number for hydrogen. Str H. Davy has assumed with Mr. Dalton, the atom of hydrogen has assumed with Mr. Dalton, the atom of hydrogen as unity; but that philosopher and Berzeins also have modified the theory, by taking for granted that water is a compound of one proportion (atom) of oxygen and two proportions (atoms) of hydregen. This is founded on the fact that two measures of hydrogen gas and one of oxygen gas are necessary to form water; and on the supposition that equal measures of different gases comain equal numbers of atoms. And as in water the hydrogen is to the oxygen by weight as 1 to 8, two atoms or volumes of hydrogen must, on this hy pothesis, weigh I, and I atom or volume of hydrogen 8, or if we denote a single atom of hydrogen by I, we must express an atom of oxygen by 16. It is object tionable, however, to this modification of the atomic

theory, that it contradicts a fundamental proposition of Mr. Dalton, the consistency of which with mechanical principles he has fully shown, namely, that that compound of any two elements which is with most difficulty decomposed, must be presumed, unless the contrary can be proved, to be a binary one. It is easy to determine, in the manner already explained, the reto determine, in the manner afready explained, the relative weights of the atoms of two elementary bodies which unite only in one proportion; but when one body unites in different proportions with another, it is necessary in order to ascertain the weight of its atom, that we should know the smallest proportion in which the former combines with the latter. Thus, if we have a body A, 100 parts of which by weight combine with not less than 32 of oxygen, the relative weight of its atom, will be to that of oxygen as 100 to 32, or reducing these numbers to their lowest terms, as 25 to 3; and the number 25 will therefore express the relative weight of the atom of A. But if, in the progress of science, it should be found that 100 parts of A are capable of uniting with 16 parts of oxygen, then the relative weight of the atom of A must be doubled; for as 100 is to 16, so is 50 to 8. This example will serve to explain the changes that laye been sometimes made in is to 16, so is 50 to 8. This example will serve to explain the changes that have been sometimes made in assigning the weights of the atoms of certain bodies, changes which it must be observed always consist either in a multiplication or division of the original weight by some simple number. There are, it must be acknowledged, a few cases in which one body combines with another in different proportions; and yet the greater proportions are not multiples of the less by ung entire proportions are not multiples of the less by may entire number. For example, we have two oxydes of mon, the first of which consists of 100 iron and about 30 oxygen; the second of 100 iron and about 45 oxygen. But the numbers 30 and 45 are to each other as I to 1½. It will, however, render these numbers 1 and 1½ consistent with the law of simple multiples; if and 1½ consistent with the law of simple multiples; if we multiply each of them by 2, it will change them to 2 and 3; and if we suppose that there is an oxyde of iron, though it has not yet been obtained experiment ally, consisting of 100 iron and 15 oxygen; for the multiplication of this last number by 2 and 3 will then give us the known oxydes of iron. In some cases where we have the apparent anomaly of one atom et one substance united with 1½ of another, it has been proposed by Dr. Thomson to remove the difficulty by nuttiplying both numbers by 2, and by assuming that in such compounds we have two atoms of the one combined with 3 atoms of the other. Such combinations, it is true, are exceptions to a law deduced by Berzefins, that in all inorganic compounds one of the Berzelius, that in all inorganic compounds one of the constituents is in the state of a single atom; but they are in no respect inconsistent with the views of Mr. are in no respect inconsistent with the views of Bar. Dalton, and are indeed expressly admitted by him to be compatible with this hypothesis, as well as confirmed by experience. Thus, it will appear in the sequel, that some of the compounds of oxygen with nitrogen are constituted in this way. Several objections of the property of the compounds of the property of the compounds of the property of tions have been proposed to the theory of Mr. Dalton of these it is only necessary to notice the most important. It has been contended that we have no evidence when one combination only of two elements exists, that it must be a binary one, and that we might equally well suppose it to be a compound of 2 atoms of the one body with one atom of the other. In answer to one body with one atom of the other. In answer to this objection, we may urge the probability, that when two elementary bodies A and B unite, the most energetic combination will be that in which one atom of A is combined with one atom of B; for an additional atom of B will introduce a new force, diminishing the attraction of these elements for each other, namely, the western translet of the atoms of B, and this rethe mutual repulsion of the atoms of B; and this repulsion will be greater in proportion as we increase the number of the atoms of B. 2dly, It has been said, that when more than one compound of two elements compound, and which the ternary. For example, that we might suppose carbonic acid to be a compound of we might suppose carbonic add to be a compound of an atom of charcoal, and an atom of oxygen; and car-bonic oxyde of an atom of oxygen, with two atoms of charcoal. To this objection, however, it is a satisfac-tory answer that such a constitution of carbonic acad-and curbonic oxyde would be directly contradictory of and catholic oxyde volume a day of a law of chemical combination: namely, that it is attended, in most cases, with an increase of specific gravity. It would be absird, therefore, to suppose carbonic acid, which is the heavier body, to be only

once compounded, and carbonic oxyde, which is the lighter, to be twice compounded. Moreover, it is universally observed, that of chemical compounds, the most simple are the most difficult to be decomposed; and this being the case with carbonic oxyde, we may and this being the case with carbonic oxyde, we may naturally suppose it to be more simple than carbonic acid. 3dly, It has been remarked, that instead of supposing water to consist of an atom of oxygen united with an atom of hydrogen, and that the atom of the former is 7½ times heavier than that of the latter, we former is 7½ times heavier than that of the latter, we might with equal probability conclude, that in water we have 7½ times more atoms in number of oxygen than of hydrogen. But this, if admitted, would involve the absurdity that in a mixture of hydrogen and oxygen gases so contrived that the ultimate atoms of each should be equal in number, 7 atoms of oxygen would desert all the proximate atoms of hydrogen in order to unite with one at a distance, for which they must have naturally a less affinity. must have naturally a less affinity.

ATONIC. Atonicus. Having a diminution of

strength.

A'TONY. (Atonia, from a, neg. and τεινω, Weakness, or a defect of muscular to extend.)

ATRABI'LIS. (Atrabilis, from atra, black, and bilis, bile.) 1. Black bile. 2. Melancholy.

ATRABILIAR® CAPSUL®. (From atra, black, and bilis.) See Renal glands.
ATRACHELUS. (From a, priv. and τραχηχος,

Atrace's E. See Clematis vitalba.

Atrace's E. See Clematis vitalba.

Atrace's Atrace's Atrace and τιτραω, to perforate.) ATRA'SIA. (From a, neg. and τιτραω, to pertorate.)

Atresia. 1. Imperforate.

2. A disease where the natural openings, as the anus

or vagina, have not their usual orifice.

ATRETA'RUM. (From a, neg. and τραω, to perforetained in the vagina.

A'TRICES. (From a, priv. and \$\rho\_{\text{tot}}\), bair.) Small tubercles about the anus upon which hairs will not

grow .- Vaselius.

A'TRICI. Small sinuses in the rectum, which do not reach so far up as to perforate into its

A'TRIPLEX. (Atriplex, icis. f.; said to be named from its dark colour, whence it was called Atrum olus.) The name of a genus of plants in the Linnaan

olus.) The name of a genus of plants in the Linnman system. Class, Polygamia; Order, Monacia.

Arriplex fetida. See Chenopodium vulvaria.

Atriplex sativa. See Atriplex sativa.

Atriplex sativa. The systematic name for the atriplex hortensis of the pharmacopaias. Orache, the herb and seed of this plant, Atriplex—caule erecto herbacco, folius triangularibus, of Linnaus, have been exhibited medicinally as antiscorbutics, but the practice of the present day appears to have totally rejected them.

them.

ATROPA. (Atropa, æ. f., from Atropas, the goddess of destiny: so called from its fatal effects.) The name of a genus of plants in the Linuxan system. Class, Pentundria; Order, Monogynia.

Atropa belladona. The systematic name for the belladona of the planmacopenias. Solanum melonocerasus; Solanum bethale. Deadly nightshade or dwale. Atropa—caule herbacco; foliis ovatis integers of Linuxeus. This plant has been long known as a strong poison of the narcotic kind, and the berries have turnished many instances of their fatal effects. as a strong poison of the narcotic kind, and the berries have furnished many instances of their fatal effects, particularly upon children that have been tempted to eat them. The activity of this plant depends on a principle sui generis called Atropia. (See Atropia) The leaves were first used internally, to discuss scirrhous and cancerous tumours; and from the good effects attending their use, physicians were induced to employ them internally, for the same disorders; and there are a considerable number of well-authenticated facts, which prove them a very serviceable and imfacts, which prove them a very serviceable and important remedy. The dose, at first, should be small; and gradually and cautiously increased. Five grains are considered a powerful dose, and apt to promote distinguish of sight, weiting the

dimness of sight, vertigo, &cc.
Atropa Mandradora. The systematic name for the plant which affords the radix mandragora of the pharmacopoeias. Mandrake. The boiled root is employed in the form of poultice, to discuss indolent tu-

mours.

ATROTHIA. (Atrophia, c. f.; from c, neg. and τρεφια, to nourish) Marasmus. Atrophy. Nervous consumption. This disease is marked by a gradual wasting of the body, unaccompanied either by a difficulty of breathing, cough, or any evident fever, but usually attended with a loss of appetite and impaired digestion. It is arranged by Cullen in the class Cachezias, and order Marcores. There are four species:—

1. When it takes place from too copious evacuations, it is termed attention, impairtorus, and takes nutri-

it is termed atrophia inantiorum; and tabes nutri-cum;—sudatoria;—d sanguifuxu, &cc. 2. When from famine, atrophia famelicorum. 3. When from corrupted nutriment, atrophia casa-

And when from an interruption in the digestive

organs, atrophia debilium

The atrophy of children is called paidatrophia. The causes which commonly give rise to atrophy, are a poor diet, unwholesome air, excess in venery, fluor albus, severe evacuations, continuing to give suck too long, a free use of spirituous liquors, mental uneasiness, and worms; but it frequently comes on without any evident cause. Along with the loss of appetite and impaired digestion, there is a diminution of strength, the face is pale and bloated, the natural heat of the body is somewhat diminished, and the lower extremities are edematous. Atrophy, arise from whatever cause it may, is usually very difficult to cure, and not unfrequently terminates in dropsy.

A'TROPIA. A poisonous vegetable principle, probably alkaline, recently extracted from the Atropa belladonna, or deadly nightshade, by Brandes. He boiled two pounds of dried leaves of atropa belladonna in a sufficient quantity of water, pressed the decoction The atrophy of children is called paidatrophia. The

boiled two pounds of dried leaves of atropa belladonna in a sufficient quantity of water, pressed the decoction out, and boiled the remaining leaves again in water The decoctions were mixed, and some sulphuric acid was added, in order to throw down the albumen and similar bodies; the solution is thus rendered thinner, and passes more readily through the filter. The decoetion was then supersaturated with potassa, by which he obtained a precipitate that, when washed with pure water and dried, weighed 89 grains. It consisted of smal, crystals, from which by solution in acids, and precipitation by alkalies, the new alkaline

acids, and precipitation by alkalies, the new alkaline substance, atropia, was obtained in a state of purity. The external appearance of atropia varies considerably, according to the different methods by which it is obtained. When precipitated from the decoction of the herb by solution of potassa, it appears in the form of very small short crystals, constituting a sandy powder. When thrown down by ammonia from an aqueous solution of its salts, it appears in flakee like wax, if the solution is much diluted; if concentrated, it is gelations like precipitated alumina: when objects. wax, it the solution is much diluted; it concentrated, it is gelatinous like precipitated alumina: when obtained by the cooling of a hot solution in alkohol, it crystallizes in long, acciular, transparent, brilliant crystals, often exceeding one inch in length, which are sometimes feathery, at other times star-like in appearance, and sometimes they are single crystals. Atropia, ance, and sometimes they are single crystalis. Atropa, however, is obtained in such a crystaline state only when rendered perfectly pure by repeated solution in muriatic acid, and precipitation by ammonia. When pure, it has no taste. Cold water has hardly any effect upon dried atropia, but it dissolves a small quantity when it is recently precipitated; and boiling water dissolves still more. Cold alkohol dissolves but a midissolves still more. Cold alkohol dissolves but a mi-nute portion of atropia; but when boiling, it readily dissolves it. Ether and oil of turpentine, even when boiling, have little effect on atropia. Sulphate of atropia crystallizes in rhomboidal tables and prisms with square bases. It is soluble in four or five parts of cold water. It seems to efforesee in the

air, when freed as much as possible from adhering sulphuric acid, by pressure between the folds of blotting paper.

Water, .....24.55

This analysis would make the prime equivalent of atropia so low as 5.3, oxygen being 1. Muriate of atropia appears in heautiful white brilliant crystals, which are either cubes or square plates similar to the muriate of daturia. He makes the composition of this salt to be,

This analysis was so conducted as to be entitled to This analysis was so conducted as to be entitled to little attention. Nitric, acetic, and oxalic acids dissolve atropia, and form acicular satts, all soluble in water and alkohol. Mr. Brandes was obliged to discontinue his experiments on the properties of this alkali. The violent headaches, pains in the back, and giddiness, with frequent nausea, which the vapour of atropia occasioned while he was working on it, had such a bad effect on his weak health, that he has entirely abstained from any further experiments. He once tasted a small quantity of sulphate of atropia. The taste was not bitter, but merely saline; but

he once tasted a small quantity of sulphate of atro-pia. The taste was not bitter, but merely saline; but there soon followed violent headache, shaking in the limbs, alternate sensations of heat and cold, oppression of the chest, and difficulty in breathing, and diminished circulation of the blood. The violence of these symp-toms ceased in half an hour. Even the vapour of the different salts of atropia produces giddiness. When exposed for a long time to the vapours of a solution of mitrate, phosphate, or sulphate of atropia the pupil of the eye is dilated. This happened frequently to him, and when he tasted the salt of atropia, it occurred him, and when he taked the sair of atropia, it occurred to such a degree, that it remained so for twelve hours, and the different degrees of light had no influence.—
Schweigger's Journal, xxviii. 1.
We may observe on the above, that it is highly improbable that atropia should have a saturating power,

probable that atropia should have a saturating power, intermediate between potassa and soda.

ATTE NUANT. (Attenuan; from attenue, to make thin.) An attenuan to dilnent is that which possesses the power of imparting to the blood a more thin and more fluid consistence than it had, previous to its exhibition; such are, water, whey, and all aque-

ous fluids.

ATTO'LLENS. (Attollens; from attollo, to lift
up. Lifting up: a term applied to some muscles, the office of which is to lift up the parts they are affixed to.

onnee of which is to fit up the parts they are amixed to.

Attollers awriculæ of Albinus and Douglas; Superior
awris of Winslow; and Attollers awriculam of Cowper. It arises thin, broad, and tendinous, from the
tendon of the occipito-frontalis, from which it is
almost inseparable, where it covers the aponeurosis of the temporal muscle: and is inserted into the upper part of the ear, opposite to the antihelex. Its use is to draw the ear upwards, and to make the parts into

to draw the ear upwards, and to make the parts into which it is inserted, tense.

Attollens occuli. One of the muscles which pulls up the eye.—See Rulus superior occuli.

Attolius Debugs. (From attone, to surprise; so called because the person falls down suddenly.) Attonius suppor. The apoplexy and epilepsy.

ATTRACTION. (Attractio; from attraho, to attract.) Affinity. The terms attraction, or affinity, and repulsion, in the language of modern plintosophers, are employed merely as the expression of the general facts, that the masses or particles of matter have a tendency to approach and unite to, or to recede from one another, under certain circumstances. The term attraction is used synonymously with affinity. See attraction is used synonymously with affinity. See

Affinity.

All bodies have a tendency or power to attract each other more or less, and it is this power which is called

Attraction is mutual: it extends to indefinite dis-Attraction is mutual: it extends to intermine dis-tances. All bodies whatever, as well as their compo-nent elementary particles, are endued with it. It is not annihilated, at how great a distance soever, we suppose them to be placed from each other; neither does it disappear though they be arranged ever so near each other.

The nature of this reciprocal attraction, or at least the cause which produces it, is altogether unknown to us. Whether it be inherent in all matter, or whether it be the consequence of some other agent, are ques-tions beyond the reach of human understanding; but

its existence is nevertheless certain

"The instances of attraction which are exhibited by the phenomena around us, are exceedingly numerous, and continually present themselves to our observation. The effect of gravity, which causes the weight of bodies, is so universal, that we can scarcely form an idea

now the universe could subsist without it. Other attractions, such as those of magnetism and electricity, are likewise observable; and every experiment in chemistry tends to show, that bodies are composed of various principles or substances, which adhere to each other with various degrees of force, and may be separated by known methods. It is a question among philosophers, whether all the attractions which obtain belosophers, whether all the attractions which obtain between bodies be referrible to one general cause modified by circumstances, or whether various original and distinct causes act upon the particles of bodies at one and the same time. The philosophers, at the beginning of the present century, were disposed to consider the several attractions as essentially different, because the laws of their action differ from each other; but the wadders agneed disposed to generalize this subject, and moderns appear disposed to generalize this subject, and to consider all the attractions which exist between boto consider all the attractions which exist between bo-dies, or at least those which are permanent, as dejend-ing upon one and the same cause, whatever it may be, which regulates at once the motions of the immense bodies that circulate through the celestial spaces, and those minute particles that are transferred from one combination to another in the operations of chemistry. The earlier philosophers observed, for example, that the attraction of gravitation acts upon bodies with a force which is inversely as the squares of the distances; and from mathematical deduction they have inferred, that the law of attraction between the particles themthat the law of attraction between the partners selves follows the same ratio; but when their observa-tions were applied to bodies very near each other, or in contact, an adhesion took place, which is found to be much greater than could be deduced from that law applied to the centres of gravity. Hence they con-cluded, that the cohesive attraction is governed by a much higher ratio, and probably the cubes of the dismuch mgher ratio, and probably the cubes of the distances. The moderns, on the contrary, have remarked, that these deductions are too general, because, for the most part, drawn from the consideration of spherical bodies, which admit of no contact but such as is indefinitely small, and exert the same powers on each other, whichever side may be obverted. They remark, likewise, that the consequence depending on the sum of the attractions in bodies not spherical, and at mi-nute distances from each other, will not follow the inverted ratio of the square of the distance taken from any point assumed as the centre of gravity, admitting the particles to be governed by that law; but that it will greatly differ, according to the sides of the solid which are presented to each other, and their respective distances; insomuch that the attractions of certain particles indefinitely near each other will be indefinitely increased, though the ratio of the powers acting upon the remoter particles may continue nearly the That the parts of bodies do attract each other, is

evident from that adhesion which produces solidity, and requires a certain force to overcome it. For the and requires a certain force to overcome it. For the sake of perspicuity, the various effects of attraction have been considered as different kinds of allinity or powers. That power which physical writers call the attraction of cohesion, is generally called the attraction of aggregation by chemists. Aggregation is considered as the adhesion of parts of the same kind. Thus a number of pieces of brimstone, united by fusion, form an aggregate, the parts of which may be separated again by mechanical means. These parts have been called integrant parts; that is to say, the minutest parts into which a body can be divided, either really or by the imagination, so as not to change its really or by the imagination, so as not to change its nature, are called integrant parts Thus, if sulphur and an alkali be combined together, and form fiver of sulphur, we may conceive the mass to be divided and subdivided to an extreme degree, until at length the mass consists of merely a particle of brimstone and a particle of alkali. This then is an integrant part; and if it be divided further, the effect which chemists call decomposition will take place; and the particles, consisting no longe, of liver of sulphur, but of sulphur alone, and of alkali sione, will be what chemists call component parts or principles.

The union of bodies in a gross way is called mixture. Thus sand and alkali may be mixed together. But when the very minute parts of a body unite with those of another so intimately as to form a body which has properties different from those of cities of them. and an alkali be combined together, and form liver of

has properties different from those of either of them, the union is called combination or composition. Thus, if sand and an alkali be exposed to a strong heat,

the minute parts of the mixture combine and form | and resulting, when it is a compound only, and would

If two solid bodies, disposed to combine together, be brought into contact with each other, the particles which touch will combine, and form a compound; and if the temperature at which this new compound assumes the fluid form be higher than the temperature the experiment, the process will go no farther, be of the experiment, the process will go no larther, because this new compound, being interposed between the two bodies, will prevent their farther access to each other; but if, on the contray, the freezing point of the compound be lower than this comperature, liquefaction will ensure and the Jurie particles be me at liberty to arrange themselves according to the law of their attractions therefore the contractions the same at their attractions, the process will go on, and the whole mass, will gradually be converted into a new compound, in the fluid state. An instance of this may be pound, in the fluid state. An issuance of this more be exhibited by mixing common suit and perfectly dry pounded ice together. The crystals of the sait alone will not liquely unless very much heated: the crystals of the water, that is to say, the ice, will not injurely unless heated as high as thirty-two degrees of Fabreniett; and we have, of course, supposed the temperature of the experiment to be lower than this, because our water is in the solid state. Now it is a well-known fact, that bring, or the saturated solution of searsalt in water, cannot be frozen unless it be cooled thirty civil degrees lower than the freezing upon of the cannot be those than the cooled thirty civil degrees lower than the freezing upon of the cannot be those than the program of the cooled thirty civil degrees lower than the freezing upon of thirty eight degrees lower than the freezing point of pure water. It follows then, that if the temperature of the experiment be higher than this, the first combi-nations of salt and ice will produce a fluid brine, and the combination will proceed until the temperature of the mass has gradually sunk as low as the freezing point of brine; after which it would cease if it were not that surrounding bodies continually tend to raise

not that surrounding bedies continually tend to raise the temperature. And accordingly it is found by experiment, that if the ice and the salt be previously cooled below the temperature of freezing brine, the combination and liquefaction will not take place.

The instances in which solid bodies thus combine tagether not being very numerous, and the theirly which ensuss immediately after the commencement of this kind of experiment, have induced several elemists to consider fluidity in one or both of the bedies applied to each other, to be a necessary circumstance, no order that they may produce chemical action money.

appired to each other, to see a necessary circumstance, in order that they may produce chemical action upon each order. Corpora non agant risis sint fluida. If one of two bodies appired to each other be fluid at the temperature of the experiment, its parts will successively unite with the parts of the solid, which will by that means be suspended in the fluid, and disappear. Such a fluid is called a solvent or menstruum

and the solid body is said to be dissolved.
Some substances unito together in all proportions. In this way the acids unite with water. But there are likewise many substances which cannot be dissolved in a fluid, at a settled temperature, in any quantity beyond a certain portion. Thus, water will dissolve only about one third of its weight of common salt: and if more salt be added, it will remain solid. A fluid which holds in solution as much of any substance as it can dissolve, is said to be saturated with it. But saturation with one substance is so far from preventing a fluid from dissolving another body, that it very frequently bappens, that the solvent power of the compound ex-ceeds that of the original fluid itself. Chemists likecodes that of the original fluid itself. Chemists like-wise use the word saturation in another sense; in which it denotes such a union of two bodies as pro-duces a compound th: most remote in its properties from the properties of the component parts themselves. In combinations where one of the principles predomi-nate, the one is said to be supersaturated, and the other principle is said to be subsaturated.

Heat in general increases the subsaturations of the de-

Heat in general increases the solvent power of fluids,

Dott in general increases the solvent power of fluids, probably by preventing part of the dissolved substance from congenting or assuming the solid form.

It often happens, that bodies which have no tendency to unite are made to combine together by means of a third, which is then called the medium. Thus water and fat this are made to unite by the medium of an alkali, in the proceduration called them.

not take place with the elements of that compound

It very frequently happens, on the contrary, that the tendency of two bodies to unite, or remain in com-bination together, is weakened or destroyed by the ad-dition of a third. Thus alkohol unites with water in such a manner as to separate most salts from it. A striking instance of this is seen in a saturated or strong solution of nitre in water. If to this there be added an equal measure of alkohol, the greater part of the nitre instantly falls down. Thus magnesia is separated from a solution of Epsom salt, by the addition of an attent, which combines with the sulphuric acid, and separates the earth. The principle which falls down is said to be precipitated, and in many instances is culled a precipitate. Some modern chanists use the term precipitation in a more extended, and rather torced sense; for they apply it to all substances thus separated. In this enunciation, therefore, they would say, that potassa precipitates soda from a solution of common salt, though no visible separation or precipitation takes place; for the soda, when disengaged from its acid, is still suspended in the water by reason of

From a great number of facts of this nature, it is From a great number of facts of this nature, it is clearly assertained, not as a probable hypothesis, but as simple matter of fact, that some bodies have a stronger tendency to unite than others; and that the union of any substance with another will exclude, or separate, a third substance, which might have been previously united with one of them; excepting only in those cases wherein the new compound has a tendency to unite with that third substance, and form a triple compound. This preference of uniting, which a given substance is found to exhibit with coveral to other compound. This preference of untung, which a given substance is found to exhibit with regard to other bodies, is by an easy metaphor called elective attraction, and is subject to a variety of cases, according to the number and the powers of the principles which are respectively presented to each other. The cases which have been most frequently observed by chemists those called simple elective attractions, and double elective attractions.

When a simple substance is presented or applied to when a simple some of two principles, and unites with one of these two principles so as to separate or exclude the other, this effect is said to be pro-

duced by simple elective attraction.

It may be doubted whether any of our operations been carried to this degree of simplicity. the chemical principles we are acquainted with are simple only with respect to our power of decomposing them; and the daily discoveries of our contemporaries tend to decompose those substances, which chemists a few years ago considered as simple. Without insist-ing, however, upon this difficulty, we may observe, that water is concerned in all the operations which are called humid, and beyond a doubt modifies all the effects of such bodies as are suspended in it; and the variations of temperature, whether arising from an actual igneous fluid, or from a mere modification of action greens among a more amount amount the parts of bodies, also tend greatly to disturb the effects of elective attraction. These causes render it difficult to point out an example of simple elective attraction, which may in strictness be reckoned as

Double electine attraction takes place when two Double electine attraction takes place when two bodies, each consisting of two principles, are presented to each other, and mutually exchange a principle of each; by which means two new bodies, or compounds, are produced of a different nature from the original compounds.

Under the same limitations as were pointed out in the control of the control o

speaking of simple elective attraction, we may offer instances of double elective attraction. Let oxyde of mercury be dissolved to saturation in the nitric acid, the water will then contain nitrate of mercury. Again, let potassa be dissolved to saturation in the sulphuric acid, and the result will be a solution of sulpharic acid, and the result will be a solution of sulphate of potassa. If mercury were added to the latter solution, it would indeed tend to unite with the acid, but, would produce no decomposition; because the elective attraction of the acid to the alkali is the strongest. So like-wise, if the nitric acid alone be added to it, its tendency to unite with the alkali strong as it is well. and fat his are made to unite by the medium of an alkali, in the coubination called sap. Some writers, produce no decomposition; because the elective attraction of the acid but, would be acid to the akali is the strongest. So likewise the more properly styles it received affinity. Its likewise detenguishes affinity into clementary, when it is between the elementary parts of bodies; of mercury be added to the solution of sulphate of policies. wise, if the little acts and the alkali, strong as it is, will not effect any change, because the alkali is already in combination with a stronger acid. But if the fitrate

tassa, a change of principles will take place; the sulphuric acid will quit the alkali, and unite with the mercury, while the nitric acid combines with the mercury, while the nitric acid combines with the alkali; and these two new salts, namely, nitrate of potassa, and sulphate of mercury, may be obtained separately by crystallization. The most remarkable circumstance in this process, is that the joint effects of the attractions of the sulphuric acid to mercury, and the nitric acid to alkali, prove to be stronger than the sum of the attractions between the sulphuric acid and the alkali, and between the nitrous acid and the mercury; for if the sum of these two last had not been weaker, the original combinations would not have been broken.

Mr. Kirwan, who first, in the year 1782, considered this subject with that attention it deserves, called the this subject with that attention it deserves, called the affinities which tend to preserve the original combinations, the quiescent affineries. He distinguished the affinities or attractions which tend to produce a change of principles, by the name of the divident affineries. Some eminent chemists are disposed to consider as effects of double affinities, those changes of principles

only which would not have taken place without the assistance of a fourth principle. Thus, the mutual only which would not have taken place without the assistance of a fourth principle. Thus, the mutual decomposition of sulphate of soda and nitrate of potassa, in which the alkalies are changed, and sulphate of potassa and nitrate of soda are produced, is not considered by them as an instance of double decomposition; because the nitre would have been decomposed by simple elective attraction, upon the addition

of the acid only

There are various circumstances which modify the effects of elective attraction, and have from time to time misled chemists in their deductions. The chief of these is the temperature, which, acting differently upon the several parts of compounded bodies, seldom fails to alter, and frequently reverses the effects of the affinities. Thus, if alkohol be added to a solution of nitrate of potassa, it unites with the water, and precipitates the salt at a common temperature. But if the temperature be raised, the alkohol rises on account of its volatility, and the salt is again dissolved. Thus again, if sulphuric acid be added, in a common temperature, to a combination of phosphoric acid and lime, it will decompose the salt, and disengage the phosphoric acid; but if this same mixture of these principles be exposed to a considerable heat, the sulphuric acid will have its attraction to the lime so much time misled chemists in their deductions. phuric acid will have its attraction to the lime so much phuric acid will have its attraction to the lime so much diminished, that it will rise, and give place again to the phosphorie, which will combine with the lime. Again, mercury kept in a degree of heat very nearly equal to volatilizing it will absorb oxygen, and become converted into the red exyde formerly called precipitate per sc; but if the heat be augmented still more, the oxygen will assume the elastic state, and fly off, leaving the mercury in its original state. Numberless instances of the like nature continually present themselves to the observation of chemists, which are sufficient to establish the conclusion, that the elective attractions are not constant but at one and the same

Many philosophers are of opinion, that the variations produced by change of temperature arise from the elective attraction of the matter of heat itself. But there are no decisive experiments either in confirma-

tion or refutation of this hypothesis.

If we except the operation of heat, which really If we except the operation of neat, which really produces a change in the elective attractions, we shall find, that most of the other difficulties attending this subject arise from the imperfect state of chemical science. If to a compound of two principles a third be added, the effect of this must necessarily be different according to its quality, and likewise according to the state of saturation of the two principles of the compounded body. If the third principle which is added pointiest nous. It the third principle which is added he in excess, it may dissolve and suspend the compound which may be newly formed, and likewise that which might have been precipitated. The intertallicisolations, decomposed by the addition of an alkah, afford no precipitate in various cases when the alkah is in exprecipitate in various cases when the anical is in ex-cess; because this excess dissolves the precipitate, which would else have fallen down. If, on the other hand, one of the two principles of the compound body be in excess, the addition of a third substance may combine with that excess, and leave a neutral sub-stance, exhibiting very different properties from the former. Thus, if cream of fartar, which is a salt of

difficult solubility, consisting of potassa united to an excess of the and of tartar, he dissolved in water, and chalk be added, the excess unites with part of the lime of the chalk, and forms a scarcely soluble salt, and the neutral compound, which remains after the privation of this excess of acid, is a very soluble salt, and the means of the excess of acid, is a very soluble salt, and the first the control of the excess of acid, is a very soluble salt, and the first the excess of acid, is a very soluble. privation of this excess of acid, is a very soluble sali-greatly differing in taste and properties from the eccui-of tartar. The metals and the acids likewise afford various phenomena, according to their degree of oxy dation. A determinate oxydation is in general neces-sary for the solution of metals in acids; and the acids themselves act very differently, accordingly as they are more or less aciditied. Thus, the natious acid gives place to acids which are weaker than the aiting acid, the arthurpure acid divises blacent acids arealy inference. pade to acids which are weaker than the nitric and, the subjunctions and gives place to acids greatly infener in attractive, power or affinity to the subjunctic acid The deception arising from effects of this nature is in a great measure produced by the want of discrimination on the part of chemical philosophers; it being evident that the properties of any compound substance depend as much upon the proportion of its ingredients, as upon their respective nature

The presence and quantity of water is probably of more consequence than is yet supposed. Thus, bismuth is dissolved in nitrous acid, but falls when the

mutit is dissolved in introus acid, out tails when the water is much in quantity.

The power of double elective attractions, too, is disturbed by this circumstance: If muriate of lime he added to a solution of carbonate of soda, they are both decomposed, and the results are muriate of soda and carbonate of lime. But if lime and muriate of soda be mixed with just water sufficient to make them into a paste, and this be exposed to the action of car-

into a paste, and time be exposed to the action of car-bonic acid gas, a saline efflorescence, consisting of carbonate of soda, will be formed on the surface, and the bottom of the vessel will be occupied by muriate of time in a state of deliquescence. Berthollet made a great number of experiments, from which he deduced the following law:—that in elective attractions the power exerted is not in the ratio of the efficity, single but in a ratio compounded of the attractions the power exerted is not in the ratio of the affinity simple, but in a ratio compounded of the force of affinity and the quantity of the agent; so that quantity may compensate for weaker affinity. Thus an acid which has a weaker affinity than another for a given base, if it be employed in a certain quantity, is capable of taking part of that base from the acid which has a stronger affinity for it; so that the base with the stringer affinity for it; so that the will be divided between them in the compound ratio of their affinity and quantity. This division of one substance between two others, for which it has differsubstance networks that the state place, according to him, when three such are present under circumstances in which they can mutually act on each other. And hence it is, that the force of affinity acts most powerfully when two substances first come into contact, and continues to decrease in power as either approaches the point of saturation. For the same reason it is so difficult to separate the last portions of any substance adhering to another. Hence, if the doctrine laid down by M. Berthollet be true, to its utmost extent, it must be impossible ever to free a compound completely from any one of its constituent parts by the agency of elective attraction; so that all our best established analyses are more or less inaccurate.

The solubility or insolubility of principles, at the temperature of any experiment, has likewise tended to mislead chemists, who have deduced consequences from the first effects of their experiments. It is evident, that many separations may ensue without precipitation; because this circumstance does not place unless the separated principle be insoluble, or nearly so. The soda cannot be precipitated from a solution of sulphate of soda, by the addition of potassa, because of its great solubility; but, on the contrary, the new compound itself, or sulphate of potassa, which is much less soluble, may fall down, if there he not enough of water present to suspend it. No certain knowledge can therefore be derived from the appearance or the want of precipitation, unless the products ance or the want of precipitation, cross say products be carefully examined. In some instances all the products remain suspended; and in others, they all fall down, as may be instanced in the decomposition of down, as may be tusineed in the decomposition of sulphate of non by line. Here the acid mates with the line and forms sulphate of line, which is searcely at all soluble, and the all less sofuble oxyde of non, which was discussed, talks down along with it

Many instances put a nt themselves, in which decom-

position does not take place, but a sort of equilibrium of affinity is perceived. Thus, soda, added to the supertartrate of potassa, forms a triple sait by combining with its excess of acid. So likewise ammonia combines with a portion of the acid of muriate of mercury, and forms the triple compound formerly dis-tinguished by the barbarous name of "sal alembroth."

tinguished by the barbarous name of "sal alembroth."
Attraction, double elective. See Affinity, double.
Ana Nee. (From avarva, to dry.) A dry disease, proceeding from a fermentation in the stomach, described by Hippocrates de Morbis.
Ana Per. The same.
Ana Per. The same.
Ana Per. (From avarva, to be proud.) The neck, which in the posture of pride, is made stiff and erect.
AUDITORY. (Auditorius; from audio, to hear.)
Relonging to the propa of hearing, as auditory nerve. Belonging to the organ of hearing; as auditory nerve,

Auditory nerve. See Portio mollis

Auditory passage. See Ear, and Meatus auditorius internu

AUGITE. Pyroxene of Hauy. A green, brown, or black mineral, found crystallized, and in grains in vol-canic rocks in basaltes. It consists of silica, lime, oxyde of iron, magnesia, alumina, and manganese.

oxyde of iron, magnesia, alumina, and manganese. [It occurs in crystals, amorphous, in romded fragments, or in grains. The Augite has a foliated structure in two directions, parallel to the sides of the primitive form. It is header than hornblende or olivine, scratches glass, and gives sparks with steel. Its specific gravity varies from 3.10 to 3.47.

It is fused with difficulty by the blow-pipe; but in small fragments melts into an enamel, which, in the coloured varieties, is black. Its greater hardness, the results of mechanical division, and its difficult fusibility, will in general be sufficient to distinguish it from hornblende, which it often resembles. It cannot easily be confounded with schort. It has two varieties. I. Common Augite. 2. Coccolite.—Cl. Min. A.] Augustum. An epithet formerly given to several

Augu's Tum. An epithet formerly given to several

compound medicines

Ault'scos. (From avlos, a pipe.) A catheter, or

clyster-pipe. (Aulos, a pipe.) A catheter, canula, or

clyster-pipe. AU'RA. (Aura, x. f.; from  $a\omega$ , to breathe.) Any subtile vapour or exhaltation.

AURA EPILEPTICA. A sensation which is felt by epileptic patients, as if a blast of cold air ascended from

the lower parts towards the heart and head.

AURA SEMINIS. The extremely subtile and vivifying portion of the semen virile, that ascends through the Fallopian tubes, to impregnate the ovum in the ovarium.

AURA VITALISE So Van Helmont calls the vital

AURA'NTIUM. (Aurantium, i. n.; so called, ab aureo colore, from its golden colour, or from Arantium,

aureo colore, from its golden colour, or Irom Arcantium, at town of Achaia.) Theorange. See Citrus aurantium. AURANTIUM CURASSAVENTE. The CURASSOA, or CURASSOA apple, or orange. The fruit so called seems to be the immature oranges, that by some accident have been checked in their growth. They are a grateful aromatic bitter, of a flavour very different from that ful aromatic bitter, of a flavour very different from that of the peel of the ripe fruit, and without any acid; what little tartness they have when fresh, is lost in drying. Infused in wine, or brandy, they afford a good pitter for the stomach. They are used to promote the discharge in issues, whence their name of issue peas, and to give the flavour of hops to becr.

AURANTH DACCE. See Citrus aurantium.

AURANTH CORTEX. See Citrus aurantium.

Aurichalcum. Brass.

AURI'CULA. (Auricula, c. f. dim. of auris, the ar.)

1. An auricle or little ear.

car.) 1. An auricle or little ear.
2. The external ear, upon which are several eminences and depressions; as the heliz, antiheliz, tragus, untitragus, concha auricula, scapha, and lobulus. See

3. Applied to some parts which resemble a little ear,

as the auricles of the heart.

4. In botany, applied to parts of plants, which re-semble an ear in figure, as Auricula juda, and Auricula muris, &c.

AURICULA JUDE. See Petiza auricula.

AURICULA MURIS. See Hieracium.

AURICULE CORDIS. The auricles of the beart. Meart.

AURICULARIS. (Auricularis; from aurie, the ear.) Pertaining to the ear.
AURICULARIS DIGITUS. The little finger; so called

because people generally put it into the ear, when the

hearing is obstructed. AURICULATUS. Auricled. A leaf is said to be so, when furnished at its base with a pair of leaflets, properly distinct, but occasionally liable to be joined to it, as in Citrus aurantium.

Auri'ga. (Auriga, a wagoner.) A bandage for the sides is so called because it is made like the traces of a

wagon horse.- Galen.

AURITGO. (.4b aureo colore; from its yellow olour.) The jaundice. See Icterus
AURIPI'GMENTUM. (From aurum, gold, and

comm.) The januatee. See Interns
AURIPICMENTUM. (From aurum, gold, and
pigmentum, paint; so called from its colour and its use
to painters.) Yellow orpinent. See Arsente.
AU RIS. (Intris, is. I., from auru, air, as being the
medium of hearing.) The ear, or organ of hearing

AURISCA LPIUM. (From auris, the car, and scalpo, toscrape.) An instrument for cleansing the car. AURUGO. The jaundice. See Aurigo. AURUM. 1. Gold.

2. This term was applied to many substances by alchemists and chemists, which resembled gold in

colour or virtues

AURUM FULMINANS. The precipitate formed by

putting ammonia into a solution of gold.

Avrum graphicum. An ore of gold.

Aurum horizontale. Oil of cinnamon and sugar.

AURUM HORIZONTALE. On Of Chinamon and Signi-AURUM LEPROSUM. Antimony.

AURUM MUSICUM. Mosaic gold. "A combination of tin and sulphur, which is thus made; Melt twelve ounces of tin, and add to it three ounces of mercuny; triturate this amalgam with seven ounces of sulphur, and three of muriate of ammonia. Put the powder into a mattress, bedded rather deep in sand, and keep if for several hours in a gentle heat; which is afterward to be raised, and continued for several hours longer. If the heat have been moderate, and not continued too long, the golden coloured scaly porous mass, and the property of the property of the continued too long, the golden coloured scaly porous mass, and the property of the property o called aurum musicum, will be found at the bottom of the vessel; but if it have been too strong, the aurum musicum fuses to a black mass of a striated texture. This process is thus explained: as the heat increases, the tin, by stronger affinity, seizes and combines with the muriatic acid of the muriate of ammonia; while the alkali of that salt, combining with a portion of the sulphur, life off in the form of a sulphuret. The combination of tin and muriatic acid sublimes; and is found adhering to the sides of the mattress. The mercury, which served to divide the tin, combines with part of the sulphur, and forms cinnabar, which also sublimes; and the remaining sulphur, with the remaining tin, forms the aurum musicum which occupies the lower part of the vessel. It must be admitted, however, that this explanation does not indicate the reasons why such an indirect and complicated process should be required to form a simple combination of tin This process is thus evplained: as the heat increases should be required to form a simple combination of tin and sulphur.

and suppur.

Aurum musivum has no taste, though some specimens exhibit a sulphureous smell. It is not soluble in water, acids, or alkaline solutions. But in the dry way it forms a yellow sulphuret, soluble in water. It deflagrates with nitre. Bergman mentions a native aurum musivum from Siberia, containing tin, sulphur, and a small proportion of copper.

and a small proportion of copper.

This substance is used as a pigment for giving a golden colour to small statue or plaster figures. It is likewise said to be mixed with melted glass to limitation.

tate lapis lazulii.

Aurum potabile. Gold dissolved and mixed with oil of rosemary, to be drunk. Autum Farkon. (From auros, the same, and  $n\mu\epsilon\rho a$ , a day.) A medicine which gives relief, or is to be ad ministered the same day.

AUTOCRATETA. The healing power of nature.

-Hippocrates.

[AUTOMALITE. This mineral substance is otherwise called Gahnite. It is always crystallized in wise called Galantie. It is always crystallized in small, but very regular octactrons, which are some-times double, like those of spinelle. Its colour is deep green, or greenish black, and its tragments are trans lucent. It scratches quartz, and has an uneven or conchoidal fracture. Its specific gravity varies from 4.26 to 4.69. It is not a conductor of electricity,

Before the blow-pipe it is infusible, but with borax, Before the blow-jape it is infusible, but with lorax, according to Eckeberg, it gives a green glass, while hot, which becomes colourless when cold. It contains Alumine 60, oxide of zine 24.25, oxide of iron 9.25, silex, 4.75=9825. According to Vauquelin, Alumine 42., oxide of zine 28., oxide of iron 5., silex 4., sulphur 17., insoluble residue 4. It has been found at a mine of Fahlun, in Sweden, in a rock abounding in talc.—72. Min. A.1 -Cl. Min. A.] AUTO'PSIA.

(From auros, himself, and οπ7ομαι,

to see.) Ocular evidence.

wheat.) Bread made with the meal of wheat, from which the bran has not been removed.—Gaten.

AUXILIARY. Assisting. This term is applied to the means which co-operate in curing diseases, and to parts which assist others in performing certain functions. The pyramidales were called auxiliary

AVANTURINE. A variety of quartz rock con-taining mica spangles. It is found in Spain and Scot-

AVELLA'NA. (From Abella, or Avella, a town in Campania, where they grow.) The specific name of

the hazel-nut. See Corylus avellana.

AVELLANA CATHARTICA. A purgative seed or nut, from Barbadoes, the produce of the Jatropha curcas.

See Jatropha curcas.

See Jatropha curcas.

AVELLANA MEXICANA. Cocoa and chocolate nut.

AVELLANA FURGATRIX. Garden spurge.

AVE NA. (Avena, e. f.; from avec, to covet; because cattle are so fond of it.) The oat. 1. The name of a genus of plants in the Linnwan system. Class, Triandria; Order, Digynia.

2. The pharmacopoial name of the oat.

AVENA SATIVA. The systematic name for the avena of the pharmacopoias. It is the seed which is commonly used, and called the oat. There are two kinds of oats: the black and the white. They have similar

of oats: the black and the white. They have similar virtues, but the black are chiefly sown for horses. They are less farinaceous, and less nourishing, than rice, or wheat; yet afford sufficient nourishment, of rice, or wheat; yet afford sufficient nourishment, of casy digestion, to such asfeed constantly on them. In Scotland, and some of the northern counties of England, oats form the chief bread of the inhabitants. They are much used in Germany; but, in Norway, oat bread is a luxury among the common people. Gruels, made with the flour, or meal, called oatmeal, digest easily, have a soft mucilaginous quality, by which they obtund acrimony, and are used for common drink and food in fevers, inflammatory disorders, coughs, hoarseness, roughness, and exulceration of the fautees; and water gruels answer all the purposes of Hippocrates's ptisan. Externally, poultiese, with oatfinites; and water gruels answer all the purposes of Hippocrates's ptisan. Externally, poultices, with oatmeal, vinegar, and a very little oil, are good for sprains and bruises. Stimulant poultices, with the grounds of strong beer, mixed up with oaumeal, are made for tunours, &c. of a gangrenous tendency.

Avenage. A Molucca tree, of a caustic quality.

AVENS. (Avens, entis; from aves, to desire.) I. The specific name of a species of dipsosis in Good's Nosology: immoderate thirst.

2. The name of a plant. See Geum.

AVENUS. Veinless. Without a vein. A term applied by botanists to a leaf which is without what they call a vein; as if Clusic adba.

they call a vein; as in Clusia alba.

AVENZOAB. A native of Seville, in Spain, who flourished about the beginning of the twelfth century; he was made physician to the king, and is said, but on imperfect evidence, to have attained the uncommon age of 135. He prepared his own medicines, and pracused surgery, as well as physic. His principal work was a compendium of the practice of medicine, called, "Al Theiser," containing some diseases not elsewhere described, and numerous cases candidly related. He was called the Experimenter, from his careful investigation of the powers of medicines by actual trial

AVERROES. An eminest philosopher and physician, born about the middle of the 12th century, at Corduba, in Spain. He studied medicine under Avencoronos, in spain. He suntee meater where Aven-zoar, but does not appear to have been much engaged in the practice of it, his life exhibiting the most extra-ordinary vicessitudes of honours bestowed upon him as a magistrate, and persecutions, which he under-went for religion. He appears to have first observed, that the small pox occurs but once in the same person. His principal medical work, called the "Universal," is

a compendium of physic, mostly collected from other authors. He died about the year 1206. AVICENNA. A celebrated philosopher and phy-sician, born in Chorasan, in the year 260. He studied sician, born in Chorasan, in the year 980. He sudded at Bagdat, obtained a degree, and began to practise at 18: and he soon attained great wealth and honour in the court of the catiph. But during the latter part of his life, residing at Ispahan, after several years spent in travelling, he impaired his constitution by intemperance, and died of a dysentery in his 58th year. His chief work on medicine, called "Canon Medicine," though mostly borrowed from the Greek or other preceding writers, and in a very diffuse style, acquired great reputation, and was taught in the European colleges till near the middle of the 17th century.

AVICE'NNIA. (Named after the celebrated physician of that name.) The name of a genus of plants in the Linnæan system. Class, Didynamia; Order, Jagiospermia.

Angiospermia

AVICENNIA TOMENTOSA. The systematic name for AVICENNIA TOMENTOSA. The systematic name for the Avicennia—foliis cordato ovalis, subtus tomentosis, of Linnæus, which affords the Malacca bean, or Anacardium orientale of the pharmacopeias. The fruit, or nut, so called, is of a shining black colour, heart-shaped, compressed, and about the size of the thumbnail. It is now deservedly forgot in this country.

nail. It is now deservedly forgot in this country.

Avigato Pears. See Learus persea.

Aul-shaped. See Leaf.

AWN. See Arista.

AXE-STONE. A species of nephrite, and a subspecies of jade, from which it differs in not being of so light a green, and in having a somewhat slaty texture.

[The fracture of this mineral is more or less splintery and glimmering. The structure of large specimens is a little slaty. Its hardness is less than that of nephrite; it is more easily broken, and offen fells that tabular

a little slaty. Its hardness is less than that of nephrite; it is more easily broken, and often falls into tabular fragments. It is usually translucent, sometimes at the edges only. Its colour varies from a dark or leek green, to grass and olive green, or even greenish gray. It occurs amorphous, sometimes in rolled fragments. It is less easily fusible than nephrite or Sausurite, and melts with efferverscence into a black enamel. It often appears to be nearly allied to serpentine. This mineral has been found obiefly in South America, New Zealand, and the islands of the South sea. It receives a tolerable polish; and is employed by the natives of the aforesaid islands for making hatchets, and other instruments; and hence its name—Cleav. and other instruments; and hence its name. - Cleav.

Min. A.]

AXI'LLA. (Axilla, a. f. 'Atzil, Heb. Scaliger deduces it from ago, to act; in this manner, ago, azo. axa, axula, axilla.)

1. In anatomy, the cavity under the upper part of the arm, called the arm-pit.

2. In botany, the angle formed by the branch and stem of a plant, or by the leaf with either.

AXILLARIS. (From axilla, the arm-pit.) Axillary.

1. Of, or belonging to the axilla, or arm-pit.

2. In botany, leaves, &c. are said to be axillary which proceed from the angles formed by the stem and hranch.

AXILLARIS. See Axillary.
AXILLARIS GEMMA. Axillary gem. The gem which comes out of the axilla of a plant. It is this which bears the fruit AXILLARY. (Axillaris; from axilla, the arm-

PARLIDARY. (Azultaris; from axilla, the armpit.) Of or belonging to the axilla, or arm-pit.

AXILLARY ARTERIES. Arteria axillares. The axillary arteries are continuations of the subclavians, and give off, each of them, in the axilla, four mammary arteries, the subscapular, and the posterior and anterior circumflex arteries, which ramify about the loster.

Nervis axillares. AXILLARY NERVES. nerve. A branch of the brachial plexus, and some-times of the radial nerve. It runs outwards and back-wards, around the neck of the humerus, and is lost in the muscles of the scapula.

the muscles of the scapula.

ANILARY VEINS. Venœ axillares. The axillary veins receive the blood from the veins of the arm, and evacuate it into the subclavian vein.

AXINITE. Thumerstone. A massive or crystalized mineral, the crystals of which resemble an axe in the form and sharpness of their edges. It is found in beds at Thum, in Saxony, and in Cornwal.

[This mineral is somettines in tabular masses, but most commonly in crystals, which are easily second.

most commonly in crystals, which are easily recognised. The general form of these crystals is a very

oblique romb, or rather four sided prism, so flattened, chipque tomb, or rather four-sided prism, so flattened, that some of its edges become thin and sharp, like the edge of an axe. The primitive form is a four-sided prism, whose bases are parallelegiants with angles of 1019-30 and 789-30. The integrant particles are oblique traingular prisms. M. Haity has described five second ary forms

Before the blow pipe it easily melts with chillition,

Retore the blow pape it easily melts with challition, and a dark gasy encomel, which with borax becomes olive green. It contains, according to Vanquelin, silex 44, alumine 18, lime 19, iron 14, manganese 4,=99.

Aximite is a sate mineral. It is found in primative works, more particularly in fissures or veins which traverse them. In Dauphiny, it is associated with quartz, feldspar, epidote, and asbestus. In the Pyreness with quartz and limestone. In Norway, near Arendal, with feldspar and epidote; and near Konsberg it exists in limestone with mica, quartz, &c. It occurs in lamellar masses near Tham in Saxony, whence the name Thumerstone—(t. Mrn. A.]

A'XIS. (From ago, to act.) The second vertebra See Dontains.

AXU'NGIA. (Azungia, a. f.; from axis, an axle-tree, and unguo, to anoint.) Hog's lard. Axungia curata. Purified hog's lard.

ANUSSIA DE MUNIMA. Marrow.
A'ZAC. (Arabian.) Gum anunoniac.
AZA'GOR. Verdigris.

AZALÆA. (From αζαλεος, dry, from its growing in a dry soil.) The name of a genus of plants in the Linnwan system. Class, Pentandria; Order, Mono-

AZALEA PONTICA. The Pontic azalea.

AZALEA PONTICA. The Pontic azalea.

AZALEA Native cinnabar. Vermilion.

AZOTE. A fine kind of camphire.

AZOTE. (From a, priv. and ξεω, to live; because is unfit for 'espiration'.) Azot. See Nitrogen.

A. atanc. The chloride of azote Anthur. 1 m. Grand Arabe, character of See Netrogen. Arabe, deutroude of See Netrogen Arabe, answay orabe of See Netrogen debite, deal repairing to the Secondary Azote, gassams oxyde of. Sec Narogen. Azote, addite of. Sec Narogen. Azote, pretoxyde of. Sec Narogen. A'zorn. An. An imaginary universal remedy

Azurestone. See Lapis lazuli.

discressione. See Lapus research.

Assert span, presunctive. See Assertite
AZURITE. Prismatic azure span. Lazahte a
AZURITE. Azure span. Lazahte a
Azure and a fine blue colour, composed
of alumina, magnesia, silica, oxyde of iron, and lime.
It occurs in Vorau, in Suria, and the bishopric of

Aze RIUM. Quicksilver, sulphur, and sal-ammoniac.

A zveres. (From a, pinv. and coyog, a yolc.) The os sphenoides was so called, because it has no fellows. A ZVGOS. (From a, pinv. and cyoog, a yoke, because it has no fellow.) Several single muscles, veins, bones, &c. are so called.

AZYOOS PROCESSUS. AZYOOS PROCESSES. A process of the ospheroides. AZYOOS UVILE. A muscle of the uvula. Palatestaphilmus of Douglas. Staphilmus, or Epistaphilmus of Winslow. It arises at one extremity of the suture which joins the palate bones, runs down the whole length of the velum and uvula, resembling an earth-worm, and adhering to the tendons of the circumflexi. It is inserted into the tip of the uvula. Its use is to raise the uvula upwards and forwards, and to shorten it. to shorten it.

to shorten it.

Azyoos vera. Azyoos vein. Vena sine pari.

This vein is situated in the right cavity of the thorax, upon the dorsal vertebra. It receives the blood from the vertebral, intercostal, bronchial, pericardiac, and diaphragmatic veins, and evacuates it into the vena cava superior.

BABUZICA RIUS. (Babwytkaano; \*\*com fabako, to speak inarticulately.) The incubre, or night-mare: so called, because, in it, the person is apt to make an inarticulate or confused noise.

an inarticulate or confused noise. BACCA. (Bacca, a.f., a berry.) A pulpy pericarpium, or seed-vessel, enclosing several naked seeds, connected by a slender membrane, and dispersed through the pulp. It is distinguished by its figure into, 1. Bucca rotunda, round; as in Ribes rubrum, the currant, and Grossularia, the gooseberry.

Bacca oblonga, oblong; as in Barbaria vulgaris, common barberry.

3. Bacca dicocca, double, as in Jasminum.
4. Bacca recutita, circumcised like the prominent glans penis, without the prepuce; as in Taxus

From the substances it is denominated,

 Bacca succosa, juicy; as in Ribes rubrum.
 Bacca corticosa, covered with a hard bark; as in Garcinia mangostana.

3. Bacca exsicea, dry; as in Hedera helix.

Bacca unilocularis, with one; as in the Actau and Cactus.

Bacca bilocularis, with two; as in Lonicera.

Bacca trilocularis, with three; as in Asparagus Bacca quadrilocularis, with four; as Caris qua-

Bacca quinquelocularis, with five; as in Me-

6. Bacca multilocularis, with many; as in Nymphoa

From the number of the seeds into.

1. Bucca manasperma, with one only; as in Daphne, Viscum, and Viburnum.

2. Bucha dispersion, with two seeds; as Barbarou enigones, and Coffee grahien

Bacca trisporma, with three . 35 in Sambucus, and Juniperis.

4. Bacca quadresperma, with four, as in Ligus-trum, and Ilex.
5. Bacca polysperma, with many seeds; as in Ar-butus unedo, Ribes, and Chardenia.
The Bacca is also distinguished into simple and

compound, when it is composed of several berries, which are called acini; as in Rubus fruticosus.

Bacca Bermudensis. The Bermuda berry. See

Sapindus saponaria.
BACCA JUNIPERI. The juniper berry. See Juniperus communis

BACCA LAURI. The laurel berry. Sec Laurus nobilis.

BACCA MONSPELIENSIS. See Inula dysenterica.
BACCA NORLANDICA. The shrubby strawberry. See Rubus arcticus.

BACCA PISCATORIA. So named because fish are caught with them. See Menispormum cocculus.

BACCA'LLA. (From baccharum copia, because it abounds in berries.) The bay, or laurel-tree. See Laurus nobilis.

BA'CCHARIS. (From bacchus, wine; from its fragrance resembling that liquor.) See Inula dyscn-

BACCIFERUS. (From bacca, a berry, and fero, BACCIPEROSS. (to bear.) Berry bearing, Plants are so called which

to bear.) Berry bearing.

Bacciffers: Plants are so called which have a berry or pulpy pericarpium.

BA CCHIA. (From bacchus, wine; because it generally proceeds from hard drinking and intemperance.) A name given by Linnaus to the pimpled face, which results from free living.

BACCIUS, Andrew, a native of Ancons, practised medicinear Rome, wards the and of the lith control.

medicine at Rome towards the end of the 16th century, He appears. and became physic an to Pope Sixtus V. to have had great industry and learning from his numerous publications, of which the chief, "De Ther mis." gives an extensive examination of natural

Ba'ccull. 1. Is used, by some writers, for a parti- | shanks, he became, on the death of his uncle, joint cular kind of lozenges, shaped into little short rol 2. Hildanus likewise uses it for an instrument in

Bucker's Pills. Pilulæ tonicæ Buckeri. A celebrated medicine in France, employed for the cure of dropsies. Their principal ingedient is the extract of melampodium, or black helibore.

Ba'cona. The Banana.

BACTISHUA, GEOROE, was a celebrated physician of Chorasan, distinguished also for his literary attainments. He was successful in curing the reigning each.

ments. He was successful in curing the reigning caments. He was successful in curing the reigning caliph of a complaint of the stomach, which brought him into great honour; he translated several of the ancient medical authors into the Arabian language; and many of his observations are recorded by Rhazes and other succeeding physicians. His son, Gabriel, was in equal estimation with the famous Haroun Al Raschild, whom he cured of apoplexy by blood-letting, in opposition to the opinion of the other physicians.

BADL'64. A kind of sponge usually sold in Russia, the powder of which is said to take away the livid marks of blows and bruises within a few hours. It is only described by Bauxbaum, and its nature is not

only described by Bauxbaum, and its nature is not

properly understood.

Badian semen. The seed of a tree which grows in China, and smells like aniseed. The Chinese, and Dutch, in imitation of them, sometimes use the badian

to give their tea an aromatic taste.

BADE ZA AQUA. See Balk voders.

BADEANUM SEMEN. Indian anissed.

BADEANU SEMEN. Indian name for a species of cap-

BA'DZCHER. An antidote.

BA'DZCHER. An antidote.

BA'OS. Baios. In Hippocrates it means few; but in P. Ægineta, it is an epithet for a poultice.

BAGLIVI, GEORGE, born at Ragusa in 1668, after graduating at Padua, and improving himself greatly by travellingsthroughout Italy, was made professor of medicine and anatomy at Rome. In 1696, he published an excellent work on the practice of physic, condemning the exclusive attachment to theory, and earnestly recommending the Hippocratic method of observation; which, he maintained, assisted by the modern improvements in anatomy and physiology, would tend greatly to the advancement of medicine. He has left also several other tracts, though he died at the early ago of thirty-eight.

the naster also several once the set of the early age of thirty-eight.

BAGNIGGE WELLS. A saline mineral spring, near Clerkenvell, in London, resembling the Epson water. In most constitutions, three half-pints is con-

water. In most constitutions, three nair pints is considered a full dose for purging.

BA'GNIO. (From bagno, Italian.) A bathing or sweating-house.

BA'HEI COYOLLI. Ray takes it to be the Arccu, or

BA'HEL SCHULLI. An Indian tree. See Genista spinosa indica.

BAHOBAL. See Adansonia.

BAIRALITE. The asbestiform species of tremolite.

[It is a variety of tremolite which Kirwan named Baikalite, because it was first found near lake Baikal in Siberia, in foliated limestone.—In Chinese Tartapy

it occurs in dolomite.

It is found in groups of acieular prisms, sometimes very long, and sometimes radiating from a centre. Its colour is greenish, often with a shade of yellow; and its lustre sometimes silky. According to Kirwan, its spec. grav. is only 2.90, and it melts into a dark green glass. It contains silex 44, lime 20, magnesia 30, oxyde of Iron 6.—See Cl. Min. A.]

of iron 6.—See Cl. Min. A.]

BAILLIE, MATTIEW, born in Scotlaud, in the year

1760. His mother was sister of the two celebrated

Hunters, Dr. William and Mr. John; his father, a clergyman. In the early part of his education he enjoyed

great advantages. After studying at Glasgow, where

his father was Professor of Divnity, he was sent to

one of the exhibitions of that university at Baliol Col
lean Order where he noted his degrees in physic, by one of the exhibitions of that university at Ballot College, Oxford, where he took his degrees in physic, by which he became a Fellow of the College of Physicians in Loudon, and was soon after elected Fellow of the Royal Society. At an early period he came to Loudon and was an immate with his uncle, Dr. William Hunter, at that time lecturing to a numerous class of pupils, and who had the superintendence of his education. After demonstrating in the dissecting room with the celebrated and learned Mr. Cruickroom with the celebrated and learned Mr. Cruicklecturer with him, and continued to lecture until 1799

or the ballie's practice as a physician was for several years extremely small, and he often complained of the little he had to do; indeed, at one time, he thought of leaving the ametropolis. In the year 1787, he was elected physician to St. George's Hospital; and he now began to find his practice increase. About this

period he married.

began to min ms practice increase. About this period he married.

Dr. Denman, the celebrated accoucheur of the day, had two daughters; Mr. Croft, afterward Sir Richard, married one, Dr. Baillie, the other. The confidence which the two first obtained in the higher circles of society, was great and extensive; and they lost no opportunity of requiring the opinion and attendance of their relation. Dr. Baillie's pupils had now gone yearly to every part of England, and the Indies, and were not merely enforcing the principles and doctrines of their master, whose lectures they had heard delivered with such lucid order, and clearness of expression, as to convey information in the most simple and intelligible manner; but were sending their patients from the most distant parts to profit by his advice and experience. Two other circumstances soon occurred, which at once placed Dr. Baillie in a practice before unheard of. His uncle's, and his own great friend, Dr. Pitcairn, who was in great practice, was, from ill health, obliged to leave England for a more temperate climate, and he previously introduced him from ill health, obliged to leave England for a more temperate climate, and he previously introduced him to all his patients; and Dr. Warren, who had enjoyed the greater part of the practice of the nobility, was suddenly out off. There was no practitioner left whose opportunities had fitted him to take the lead, and thus a field was opened for aspiring genius, ability, skill, and perseverance, which Dr. Ballle soon occupied, and from which he reaped an abundant harvest for more than twenty warse.

vest for more than twenty years.

Before he discontinued his lectures in 1799, he pub-Before he discontinued his rectures in 1799, he pub-lished an octave volume, on Morbid Anatomy, in which is compressed more accurate and, more useful information than is to be found in the elaborate works of Bonetus, Morgagni, and Lieutaud. This was fol-lowed by a large work, consisting of a series of splen-did engravings to illustrate Morbid Anatomy. He also gave a description of the gravid uterus, and many important contributions to the transactions and medical

collections of the time

Dr. Baillie presented his collection of specimens of

Dr. Baline presented his concetton of specimens of morbid parts to the college of physicians, with a sum of money to be expended in keeping them in order.

The professional and moral character of this great physician cannot be too highly appreciated. To his brethren, among whom he might, from his extensive and peculiar practice, have exercised a high and reserved deportment, he was humble, attentive, communication and provided in the second chiral least head to the communication of the second chiral least head to the communication of the second chiral least head to th nicative, and kind; and he never permitted the caprice of a patient or friends to interfere with the conduct of, or injure a practitioner, when unjustly

In the exercise of his practice, he displayed a discri-minating and profound knowledge; happy in the con-ception of the cause of symptoms, he distinguished diseases from those with which they might have been

diseases from those with which they might have been confounded, and pointed out their probable progress and termination; and in delivering his opinion, he expressed himself with clearness, decision, and candour. His moral character was adorned by the strictest virtues, and amplest charities. He died in the year 1823, in the sixty-third year of his age, from a gradual decay of the powers of nature, continuing to practise until about a year before his death, leaving a wife, a second deputier, and exister. Miss Leaving a Rillie, who son, a daughter, and a sister, Miss Joanna Baillie, who

son, a daughter, and a sister, Miss Joanna Baillie, who has acquired a degree of eminence surpassed by none of her sex in any age. A few of his private professional friends have directed a simple tablet and bust from the chisel of Chantry, to be placed in Westminster Abbey, to perpetuate his high and honourable professional obstracter, and his many private virtues. BAHLLOE, Getta-ceme de, commonly called Battonies, was born in 1548 at Paris, where he graduated, and attained considerable eminence. He was very active in the contest for precedence between the physicians and surgeons, which was at length decided in favour of the former. His writings are numerous, though not now much esteemed; but he appears to have been the first, who properly discriminated between gout and rheumatism.

tween gout and rheumatism.

The plaintain-tree BA'LA.

BALÆ NA. (Βαλαινα; from βαλλω, to cast, from

BALLE NA. (Bahaiya, 100m fasho, 10 cast, from its power in casting up water.) The name of a genus of animals. Class, Mammaha; Order, Cree. [Ballera Mystrektus. The systematic and Linnean range for the common or right whate, which is pursued in the icy and Greenland seas, on the coast of prean name to the pursue of the pursue of the coast of Brazil, and in the Pacific Ocean, supplying, when taken, plubber and whalebone. The blubber is the fat out from the hody of the whale, and being afterward tried, produces common whale or lamp oil. The whalebone is a horny substance projecting from the jaws, and does not partake of the nature of home. The can's are split into numerous fibres, and the animal uses them as a filtering machine. The right whale lives upon the small worms and molluscous animals which abound in the ocean. When it feeds, it opens the mouth, and swims forward, and when it has cotten the mouth, and swims forward, and when it has cotten the mouth, and swims forward, and when it has cotten the mouth, and swims forward, and when it has cotten the mouth, and swims forward, and when it has cotten to the content of the country in the country in the country is a mouth. the mouth, and swims forward, and when it has col-lected a large quantity of these vermes, the mouth is closed, and the water is forced through the fibrous ends of the whalebone, while the smail animals are retained within and swallowed.—See Scoresby's North.

Whale Fishery. A.]

BALENA MACROCEPHALA. The systematic name of

a species of whale.

(This is the cacholet or large-headed whale, the true [1] His Sittle cannoted or large-headed whate, the tries epermaceti-whate, principally taken in the Pacific ocean. It is called macroscephalus, from μακρος, large, and κρέφλη, the head, because the head constitutes two-birds of the animal. The blubber or fat is stripped off this as it is from the right-whate, and affords abundant oil. There is however a cavity in the skull

ped off this as it is from the right-whale, and altous abundant oil. There is however a cavity in the skull of the marcrocephalus containing a large quantity of pure oil cattled head-matter, which alfonds the best of spermaceti. In the natural state it is so liquid that it can be dipped out withra bucket. A.]

Balais ruby. See Sepinelle.

BALANCE. "The beginning and end of every exact chemical process consists in weighing. With imperfect instruments this operation will be tedious and inaccurate; but with a good balance, the result will be satisfactory; and much time, which is so precious in experimental researches, will be saved. The balance is a lever, the axis of motion of which is formed with an edge like that of a knife; and the two dishes at its extremities are hung upon edges of the same kind. These edges are first made sharp, and then rounded with a fine hone, or a piece of buff leather. The excellence of the instrument depends, in a great measure, on the regular form of this rounded part. When the lever is considered as a mere line, the two outer edges are called points of suspension, and the inner the fulcrum. The points of suspension, and the inner the fulcrum. and the inner the fulcrum. The points of suspension are supposed to be at equal distances from the fulcrum,

are supposed to be at equal distances from the futerum, and to be pressed with equal weights when boaded.

1. If the futerum be placed in the centre of gravity of the beam, and the three edges lie all in the same right line, the balance with have no tendency to one position more than another, but will rest in any position it may be placed in, whether the scales be on or off, empty or loaded.

2. If the centre of gravity of the beam, when level, he immediately above the futerum, it will overset by

be immediately above the fulcrum, it will overset by the smallest action; that is, the end which is lowest will descend: and it will do this with more switness, the higher the centre of gravity, and the less the points of suspension are loaded.

3. But if the centre of gravity of the beam be imme diately below the futerum, the beam will not rest in any position but when level; and, if disturbed from this position, and then left a fiberty, it will vibrate, and at last come to rest on the level. Its vibrations will be quicker, and ne horizontal tendency stronger, the lower the centre of gravity, and the less the weights

upon the points of suspension.

4. If the fulcrum be below the line joining the points of suspension, and these be loaded, the beam will overset, unless prevented by the weight of the beam tending to produce a horizontal position. In this last case, small weights will equilibrate; a certain exact weight will rest in any position of the beam and all greater weights will cause the beam to overset.

Many scales are often made this way, and will over-

centre of gravity of the beam be nearly in the fulcrum, all the vibrations of the loaded beam will be made in times nearly equal, unless the weights be very small, when they will be slower. The vibrations of balances are quicker, and the horizontal tendency stronger, the higher the fulcrum.

6. It the arms of a balance be unequal, the weights in equipoise will be unequal in the same proportion. It is a severe check upon a workman to keep the arms equal, while he is making the other adjustments in a

equal, while its maxing incorrect adjustments in strong and inflexible beam.

7. The equality of the arms of a balance is of use, in scientific pursuits, chiefly in making weights by bisection. A balance with unequal arms will weigh as accurately as another of the same workmanship. with equal arms, provided the standard weight itself be first counterpoised, then taken out of the scale, and the thing to be weighed be put into the scale, and adjusted against the counterpoise; or when proportional quantities only are considered, as in chemical and in other philosophical experiments, the bodies and preother philosophical experiments, the bodies and products under examination may be weighted against the weights, taking care always to put the weights into the same scale. For then, though the bodies may not be really equal to the weights, yet their proportions among each other may be the same as if they had been reconstitute. accurately so.

accurately so.

8. But though the quality of the arms may be well dispensed with, yet it is indispensably necessary that their relative lengths, whatever they may be, should continue invariable. For this purpose, it is necessary, either that the three edges be all truly parallel, or that the points of suspension and support should be always in the same part of the edge. This last requisite is the proper simulations of the edge.

in the same part of the edge. This last requisite is in the same part of the edge. This last requisite is the most easily obtained.

The balances made in London are usually construct-ed in such a manner, that the bearing parts form notches in the other parts of the edges; so that the scales being set to vibrate, all the parts naturally fall into the same bearing. The balances made in the country have the fulcrum edge straight, and confined to one constant bearing by two side plates. But the points of suspension are referred to notches in the cdges, like the London balances. The balances here mentioned, which come from the country, are enclosed in a small iron papamed box; and are to be met with at Birmingham and Sheffield ware-houses, though less-frequently than some years ago; because a pocket contrivance for weighing guiness and half-guineas has got possession of the market. They are, in general, well made and adjusted, turn with the twentich of a grain when empty, and will sensibly show the tenth of a grain, with an ounce in each scale. Their price is from five shillings to half a guinea; but those which are under seven shillings, have not their edges hardened, and consequently are not durable. This may to one constant bearing by two side plates. But the ened, and consequently are not durable. be ascertained by the purchaser, by passing the point of a penknife across the small piece which goes through one of the end boxes: if it make any mark or impres-

sion, the part is soft.

9. If a beam be adjusted so as to have no tendency to any one position, and the scales be equally loaded; then, if a small weight be added in one of the scales. then, it a small weight be added in one of the scales, that balance will turn, and the points of suspension will move with an accelerated motion, similar to that of falling bodies, but as much slower, in proportion, very nearly, as the added weight is less than the whole weight horne by the fulcium.

The stronger the tendency to a horizontal posi-10. The stronger the tendency to a horizontal posi-tion in any batance, or the quicker its vibrations, the greater additional weight will be required to cause it to turn, or incline to any given angle. No balance, therefore, can turn so quick as the motion deduced. Such a balance as is there described, if it were to turn with the ten-diousandth part of the weight, would move at quickest ten thousand times slower than fail-ing bodies; that is, the dish containing the weight, instead of falling through sixteen feet in a second of time, would fall through only two hundred parts of an inch, and it would require four seconds to move through inch, and it would require four seconds to move through create weight will rest in any position of the beam; and all greater weights will cause the beam to overset with any considerable load.

5. If the fulcrum be above the line joining the points of suspension, the beam will come to the horizontal position, unless prevented by its own weight. If the line is doubtful; but the quicker angular motion, greater strength, and less weight of a short balance, are certainly advantages

11. Very deficate balances are not only useful in nice experiments, but are likewise much more expe-ditious than others in common weighing. If a pair of scales with a certain load be barely sensible to onetenth of a grain, it will require a considerable time to ascertain the weight to that degree of accuracy, because the turn must be observed several times over, and is very small. But if no greater accuracy were required, and seales were used which would turn with the hundredth of a grain, a tenth of a grain, more or less, would make so great a difference in the turn, that it would be seen immediately.

12. If a balance be found to turn with a certain addition, and is not moved by any smaller weight, a greater sensibility may be given to that balance, by producing a trenulous motion in its parts. Thus, if the edge of a blunt saw, a tile, or other similar instruneem, be drawn along any part of the case or support of a balance, it will produce a jarring, which will diminish the friction on the moving parts so much, that the turn will be evident with one-third or onefourth of the addition that would else have been required. In this way, a beam which would barely turn by the addition of one-tenth of a grain, will turn with one thirtieth or fortieth of a grain, will turn

13. A balance, the horizontal tendency of which

depends only on its own weight, will turn with the same addition, whatever may be the load; except so

same addition, whatever may be the loan, except so far as a greater load will produce a greater friction.

14. But a balance, the horizontal tendency of which depends only on the elevation of the fulcrum, will be less sensible the greater the load; and the addition requisite to produce an equal turn will be in proportion to the dead itself. tion to the load itself.

tion to the load itself.

15. In order to regulate the horizontal tendency in some beams, the fulcrum is placed below the points of suspension, and a sliding weight is put upon the cock or index, by means of which the centre of gravity, may be raised or depressed. This is a useful con-

trivance

Weights are made by a subdivision of a standard weight. If the weight be continually halved, it will produce the common pile, which is the smallest number for weighing between its extremes, without placing any weight in the scale with the body under examination. Granulated lead is a very convenient substance to be used in this operation of halving, which, however, is very tedious. The readiest way to subdivide small weights, consists in weighing a certain quantity of small wire, and alterward cutting it into such parts, by measure, as are desired; or the wire may be wrapped close round two pins, and then end sander with a kirtle. By this means it will be divided into a great number of equal lengths, or small rings. The wire ought to be so thin, as that one of these rings may be the contents of the services of the services. barely produce a sensible effect on the beam. If any quantity (as, for example, a grain) of these rings be weighed, and the number then reckoned, the grain may be subdivided in any proportion, by dividing that number, and making the weights equal to as many of therings as the quotient of the division denotes. Then, the tings as the quotient of the division denotes. Then, if 750 of the tings amounted to a grain, and it were required to divide the grain decimally, downwards, 9 10ths would be equal to 675 rings, 8-10ths would be equal to 600 rings, 7-10ths to 525 rings, &c. Small weights may be made of thin leaf brass. Jewellers' foil is a good material for weights below 1 10th of a grain section. grain, as low as to 1 100th of a grain; and all lower quantities may be either estimated by the position of the index, or shown by actually counting the rings of

wire, the value of which has been determined.

17. In philosophical experiments, it will be found very convenient to admit no more than one dimension of weight. The grain is of that magnitude as to descree the preference. With regard to the number of weights the chemists ought to be provided with, writers have differed according to their habits and views. Mathematicians have computed the least possible number, with which all weights within certain limits might be ascertained; but their determination is of little use. Because, with so small a number, it must often happen, that the seales will be heavily loaded with weights on each side, put in with a view only to determine the difference between them. It is not the least possible number of weights which it is necessary

an operator should buy to effect his purpose, that we ought to inquire after, but the most convenient number for ascertaining his inquiries with accuracy and expe-The error of adjustment is the least possible, dition. The error of adjustment is the least possible, when only one weight is in the scale; that is, a single weight of five grains is twice as likely to be true, as two weights, one of three, and the other of two two weights, one of three, and the other of two grains, put into the dish to supply the place of the sin-gle five; because each of these last has its own proba-bility of error in adjustment. But since it is as inconmany of error in adjustment. But since it is as inconsistent with convenience to provide a single weight, as it would be to have a single character for every number ; and as we have nine characters, which we use in her small as we have nine characters, which we use in rotation, to express higher values according to their position, it will be found very serviceable to make the set of weights correspond with our numerical system. This directs us to the set of weights as follows: 1000 grains, 900 g. 800 g. 700 g. 600 g. 500 g. 400 g. 300, 200 g. 100 g. 90 g. 80 g. 70 g. 60 g. 50 g. 40 g. 30 g. 20 g. 10 g. 9 g. 8 g. 7 g. 6 g. 5 g. 4 g. 3 g. 2 g. 1 g. 5+10 g. 8+10 g. 7+10 g. 6+10 g. 5+10 g. 4+10 g. 3+10 g. 2+10 g. 9+10 g. 8+10 g. 7+10 g. 6+10 g. 5+100 g. 4+100 g. 3+100 g. 2+100 g. 3+100 scales as there are figures in the number expressing the weights in grains. Thus 742.5 grains will be weighted by the weights 700, 40,2, and 5-10ths."—Ure's Chemical Dictionary.

BALANI'NUM OLEUM. Oil of the ben-nut.

BALANICA MALEUR. OF the Ben-nu.

BALANICA MALEUR. (From Balavos, a nut, and suscavos, a chesnut; so called from its tuberous root.)

The earth-nut. See Bunium bulbocastanum.

BA-LANOS. (From balabocastanum.

BA-LANOS. (From palabo, to cast; breause it sheds its fruit upon the ground.) Balanus. 1. An

acom

2. The oak tree. See Quercus robur.
3. Theophrastus uses it sometimes to express any

glandiferous tree.

4. From the similitude of form, this word is used to express suppositories and pessaries, Bahavos signifying a nut.

5. A name of the glans penis.

Bulas ruby. See Spinelle.

BALAU'STIUM. (From βαλιος, various, and αυω, BALAUSTIUM. (From pariety of its colours, and its becoming soon day; or from \( \beta Aggar \omega\_0\) (by germinate.) Balaustia. A large rose-like flower, of a red

nate.) Balaustia. A large rose-like flower, of a red colour, the produce of the plant from which we obtain the granate. See Pranca granatum.

BALBUTIES. (From Babagosto stammer; or from balbel, Heb. to stammer.) A defect of speech; properly, that sort of stammering where the patient sometimes heightates, and immediately after, speaks precipitately. It is the Psellismus balbutiens of Cullen.

pratery. It is the recrusives barbatrens of Culten. Bullmanney. See Ethasia mean. Bullmanney. See Ethasia incut mitrate of lime. BALISMUS. (Βαλλεσμος; from βαλλέζω, tripudio, pedihus planda.). The specific name of a disease in Good's genus Synclonus for shaking palsy. See Chorea

and Tremur.
BALISPA. (From βαλλο, to cast.) The astragulus, a bone of the foot, was formerly called os baliste, because the ancients used to cast it from their sings.
BALIAOON. (Ballon, or balon, French.) 1. A large glass receiver in the form of a hollow globe.

For certain chemical operations balloons are made with two necks, placed opposite to each other; one to receive the neck of a retort, and the other to enter the neck of a second balloon : this apparatus is called enfo neck of decome monopolic in insequences is came of me bedded balloons. Their use is to increase the whole space of the receiver, because any number of these may be adjusted to each other. The only one of these vessels which is generally used, is a small oblong balloon with two necks, which is to be luted to the retort, and to the receiver, or great balloon; it serves to remove this receiver from the body of the furnace, and

move this receiver from the body of the furnace, and to hinder it from being too much heated.

2. A spherical bag filled with a gas of a small specific gravity, or with heated air, by the buoyancy of which it is raised into the atmosphere.

B.M.L.O'TE. (From βαλλο, to send forth, and our or of the ear; because it sends forth flowers like ears.)

Rathous The, name of a genus of plants. Class, Didynamia; Order, Cymnospermia.

BATHOUS NIGEA. Stinking horehound. A nettle-like plant, used, when boiled, by the country people against senry and cutaneous cruptions.

against scurvy and cutaneous cruptions.

BALM. See Melissa.

BALM. See Metissa.

Balm of Gilead. See Dracocephalum.

Balm of Mecca. See Amyris gleadensis.

Balm, Turkey. See Dracocephalum.

BALMEUM. (Balnoum, ein. Balavetov, a bath.)

bath, or bathing-house. See Bath.

A bath, or bathing-house.

A bath, or bathing-house. See Baik.

Balneum Annale. The wrapping any part of an animal just killed, round the body, or a limb.

Balneum arens. A sand-bath for chemical purposes. See Bath.

Balneum Calidum. A hot-bath. See Bath.

BALNEUM CALIDUM. A hot-bath. See Bath.
BALNEUM FRIGIDUM. A cold-bath. See Bath.
BALNEUM MARIÆ. Balneum maris. A waşın wa-

ter bath. See Bath BALNEUM MEDICATUM. A bath impregnated with

BALMEUM SICCUM. Balneum cinersum. A dry bath, either with ashes, sand, or iron filings.
BALMEUM SULPHUREUM. A sulphurous bath.
BALMEUM TEPIDUM. A tepid bath. See Bath.
BALMEUM VAPORIS. A vapour bath.
BA'LSAM. (Balsamum; from baal samen, Hebrew.) The term balsam was anciently applied to any strong-scented, natural vegetable resin of about the fluidity of treacle, inflammable, nat, miscible, with any strong-scented, natural vegetable resin of about the fluidity of treacle, inflammable, not miscible with water, without addition, and supposed to be possessed of many medical virtues. All the turpentines, the Peruvian balsam, copaiba balsam, &c. are examples of natural balsams. Besides, many medicines compounded of various resins, or oils, and brought to this consistence, obtained the name of balsam. Latterly, however, chemists have restricted this term to vegeta. however, chemists have restricted this term to vegeta-ble juices, either liquid, or which spontaneously be-come concrete, consisting of a substance of a resinous nature, combined with henzoic acid, or which are capable of affording benzoic acid, by being heated alone, or with water. They are insoluble in water, but readily dissolve in alkohol and ather. The liquid balsams are copaiva, opo-balsam, Peru, styrax, Tolu; the concrete are benzoin, dragon's blood, and storax. Balsam apple, male. The fruit of the elaterium.

Balsam apple, mate. The fruit of the claterium. See Momordica elaterium.
Balsam, artificial. Compound medicines are thus termed which are made of a balsamic consistence and fragrance. They are generally composed of expressed tragrance. They are generally composed of expressed or ethereal oils, resins, and other solid bodies, which give them the consistence of butter. The basis, or body of them, is expressed oil of nutmeg, and frequently wax, butter, &c. They are usually tinged with cinnabar and saffron.

with cinnabar and saffron.

Balsam of Canada. See Pinus Balsamea.

Balsam of Canada. See Dracocephalum.

Balsam of Copavba. See Copaifera officinalis.

Balsam natural. A resin which has not yet assumed the concrete form, but still continues in a fluid state, is so called, as Common turpentine, balsamum copaiva, peruvianum, tolutanum, &c.

Balsam, Peruvian. See Myroxylon Peruiferum.

Balsam of sulphur. See Balsamum sulphuris.

Balsam of Tolu. See Toluifera balsamum.

Balsam ATUR'EV. See Dracoccphalum.

BALSAMATIO. (From balsamum, a balsam.)

The embalming of dead bodies.

The embalming of dead bodies.

Balsa'mea. (From balsamum, balsam.) The balm of Gilead fir; so called from its odour. See Pinus balsamea.

BALSAMELE'ON. (From balsamum, balsam, and ελαιον, oil.) Balm of Gilead, or true balsamum. Judaicum.

BALSA'MIC: (Balsamica, sc. medicamenta; from BALSA'MIC: (Balsamica, sc. medicamenta; from Atem generally applied to sub-larguage, which pos-BANGUAY, balsam.) A term generally applied to substances of a smooth and oily consistence, which possess emollient, sweet, and generally aromatic qualities. Hoffman calls those medicines by this name, which are hot and acrid, and also the natural halsams, stimulating gums, &c. by which the vital heat is increased.

Dr. Cullen speaks of them under the joint title of balsamajae at resimosa, considering that turpentine is the
basis of all baleams.

(From balsamum, balsam, and

Dasis of all Dalsams.

BALSAMIYERA. (From balsamum, balsam, and fero, to bear.) Balsam berry.

BALSAMIYERA BRAZILIENSIS. The copaiba tree.

See Considera officinatis.

BALSAMIFERA INDICANA: Peruvian balsam tree.

See Murraylan menujakum.

Peruvian balsam tree. Bee Myrozylon peruiferum:
Batsamita ræminea. See Achillea ageratum.
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BALSAMITA LUTEA. See Polygonum persicaria. BALSAMITA MAJOR. See Tangcetum balsamita. BALSAMITA MAJOR. See Tanacetum balsami BALSAMITA MAS. See Tanacetum balsamita.

Baisamita mas. See Transectum balsamita.
Baisamita minor. Sweet maudiin.
BA'LSAMUM. (From brad samen, the Hebrew for
the prince of cists.) A Baissim. See Balsam.
Balsamum ægyptiacum. See Amyres geleadensis.
Baisamum albinum. See Amyres geleadensis.
Baisamum americanum. See Myrosylon perui-

BALSAMUM ANODYNUM. A preparation made from tacamahacea, distilled with turpentine and soap liniment; and tincture of opium, but there were a great number of balsams sold under this name formerly.

Balsamum archi. A preparation composed of

gum-elemi and suet.

BALSAMUM ASIATICUM. See Amyris gileadensis. BALSAMUM BRAZILIENSE. See Pinus balsamea. BALSAMUM CANADENSE. See Pinus balsamea.

BALSAMUM CEPHALICUM. A distillation from oils, nutmegs, cloves, amber, &cc.

BALSAMUM COMMENDATORIS. A composition of

Storan, benzoe, myrrh, aloes.

Balsamum copaide. See Copaifera officinalis.

Balsamum embryonum. A preparation of anisced, fallen into disuse

BALSAMUM GENUINUM ANTIQUORUM. See Amyris wileadensis.

BALSAMUM GILEADENSE. See Amyris gileadensis. BALSAMUM GUAIACINUM. Balsam of Peru and spirits of wine.

BALSANUM GUIDONIS. The same as balsamun anodynum.

BALSAMUM HUNGARICUM. A balsam prepared from

BAISANUM HUNGARICUM. A baisam prepared from a coniferous tree on the Carpathian mountains.

BAISAMUM JUDAICUM. See Jimpris gileadensis.

BAISAMUM LUCATELLI. (Lucatelli, 30 called from its inventor Lucatellus.) A preparation made of oil, turpentine, wax, and red saunders; now disused; formerly exhibited in coughs of long standing.

BAISAMUM MAS. The herb costmary. See Tana-

cetum balsamita.

Balsamum e mecca. Sec Amyris gilcadensis. Balsamum mexicanum. Sec Myroxylon perui-

BALSAMUM NOVUM. A new balsam from a red fruit in the West Indies

BALSAMUM ODORIFERUM. A preparation of oil, wax, and any essential oil.

BALSAMUM PERSICUM.

BALSAMUM PERSICUM.
Storax, benzoe, myrrh, and aloes.
Storax, benzoe, myrrh, and aloes.

fegum.

BALSAMUM RACKASIRA. This balsam, which is inodorous when cold, but of a smell approaching to that
of Tolu balsam when heated, is brought from India in
gourd-shells. It is slightly bitter to the taste, and adheres to the teeth, on chewing. It is supposed to be one of the factitious balsams, and is scarcely ever prescribed in this country.

BALSANUM SAMECH. A factitious balsam, composed of tartar, and spirits of wine.

BALSANUM SAPONACEUM. A name given to the preparation very similar to the compound soap lini-

BALSAMUM SATURNI. The remedy so named is propared by dissolving the acetate of lead in oil of turpentine, by digesting the mixture till it acquires a red colour. This is found to be a good remedy for cleansing foul ulcers; but it is not acknowledged in our dispensatories

BALSAMUM STYRACIS BENZOINI. See Styrax benzoin BALSAMUM SUCCINI. Oil of amber.

BALSAMUM SULPHURIS. A solution of sulphur in oil. BALSAMUM SULPHURIS ANISATUM. Terebinthinated balsam of sulphur, and oil of aniseed.

BALSAMUM SULPHURIS BARBADENSE. Sulphur boiled with Barbadoes tar.

BALSAMUM SULPHURIS CRASSUM. Thick balsam of

BALSAMUM SULPHURIS SIMPLEX. Sulphur boiled with oil.

BALSAMUM SULPHURIS TEREBINTHINATUM. is made by digesting the sulphur with oil of turpentine; it is now confined to veterinary medicine.

Balsamum syriacum. See Amyris gileadensis.

BALSAMUM TOLUTANUM. See Toluifera balsamum

BALSANUM TRAUMATICUM. Vulnerary balsam. A form of medicine intended to supply the place of the tincture commonly called Friar's balsam, so famous for curing old ulcers. The London College have named it Tinctura Benzoini composita.

BALSAMUM WRIVERSALE. The unguentum saturninum of old pharmacopæias. See Ceratum plumbi compositum.

BALSAMUM VERUM. See Amyris gileadensis.
BALSAMUM VIRIDE. Linseed-oil, turpentine, and BALSAMUM VIRIDE.

verdigris mixed together.

BALBAMON VIEIDE. Linseed-oil, infrentine, and verdigirs mixed together.

BALBAMUM VITÆ HOFFMANNI. Beaume de vie. An artificial balsam, so named from its inventor, and composed of a great variety of the warmest and most grateful essential oils, such as nutmegs, cloves, lavender, &c., with balsam of Peru, dissolved in highly rectified spirit of wine; but it is now greatly abridged in the number of ingredients, and but little used.

BALZOI'NUM. The gum-benjamin.

BAMBA'LIO. (From \$\beta \text{pum-benjamin}\$.

BAMBOO. (An Indian root.) See \$\beta \text{prundo bambos}\$.

BAMBER. The name of a plant common in Egypt, the husk of which they dress with meat, and, from its agreeable flavour, make great use of it in their ragouts.

BANA'RBOR. The coffee-tree.

BANA'NA. An Indian word. See \$\begin{align\*}
Mananni'BA. See \text{Banana}\$.

BANANEI'RA. See Banana. BA'NCIA. The wild parsnip. BANDAGE. Deligatio. BANDACE. Deligatio. Fascia. An apparatus consisting of one or several pieces of linen, or flamel, and intended for covering or surrounding parts of the body for surgical purposes. Bandages are either simple or compound. The chief of the simple are the circular, the spiral, the uniting, the retaining, the expellent, and the creeping. The compound bandages used in surgery, are the T bandage, the suspensory one, the capistrum, the eighteen-tail bandage, and others, to be met with in surgical treaties.

the capisitum, the eighteen-tail bandage, and others, to be met with in surgical treatises.

Bandu'ra. A plant which grows in Ceylon, the root of which is said to be astringent.

Bandu'r. Bange. A species of opiate in great use throughout the East, for its intoxicating qualities. It is the leaf of a kind of wild hemp, growing in the countries of the Levant, and made into powder, pills, or conserves. or conserves

The wild parsnip. BA'NICA. See Epidendrum vanilla. See Epidendrum vanilla. BANI'LAS. BANI'LIA.

BAN'IAL See Epidendrum vancilla.
BAO'BAB. See Adamsonia digitata.
BA'PTISTE RIUM. (From \$\text{Farma}\$, to infimerge.)
A bath, or repository of water, to wash the body.
BAPTISTENUM. (From \$\text{Farma}\$, to dye.) A species of wild mustard, so called from its reddish colour.
BA'RBA. (From barbarus, because wild nations are usually unshaven.) 1. The beard of man.
2. In botany a species of pubescence, or down, with which the surface of some plants are covered sometimes in patches; as in the leaves of the Mesembryan-themum barbatum. themum barbatum

3. Some vegetables have the specific name of barba, the ramifications of which are bushy, like a beard, as

the ramineations of which are busny, like a beard, as Barba, jours, &cc.

Barba, Jours, &cc.

Barba Arrons. See Arum maculatum.

Barba Adonis. See Spirea ulmaria.

Barba Hirci. See Tragopogon.

Barba Jovis. Jupiter's beard. This name is given to several plants, as the silver bush; the Sompervioum majus; and of a species of antilyllis.

Barbadoes. The name of an island in the West, from which we obtain a mineral tar, and several medicinal polaris. ral medičinal plants.

medicinat pana.

Barbadoes cherry. See Matpargue.

Barbadoes nut. See Jatropha curcas.

Barbadoes nut. See Petroleum barbadense, the use

Limited to its external appli-

Barbadoes nat. See Jatropha curcus.
Barbadoes tar. See Petroleum barbadonse, the use of which in medicine is limited to its external application, at times, in paralytic cases.
Barbarra. (From St. Barbary, who is said to have found its virtues.) See Erysimum barbarra.
Barbarro's Se Pitluta. Barbarossa's pill. An ancient composition of quicksilver, rhubarb, diagridium, musts, amber, &c. It was the first internal mercurial medicine which obtained any real credit.
Barbarum. The name of a plaster in Scribonius Largus.

BARBATINA. A Persian vermifuge seed. BARBA'TUS. (From barba, a beard.) Bearded; applied to a leaf which has a hairy or beard-like pu-bescence; as Mesembryanthemum barbatum, and Spa-

nanthe paniculata.

BA'RBEL. Barbo. An oblong fish, resembling the pike, the cating of the roe of which often brings on the cholera.

on the choiera.

BARBERRY. See Berberis.

BARBERRY. See Berberis.

BARBEYRAC, CHARLES. A French physician of the 17th century, who graduated and settled at Montpelier, where he acquired great celebrity. He died in 1699, at the age of about 70, having published little, except a good account of the discases of the chest and except a good account of the diseases of the orient-stougach in femates. Mr. Locke, who became intimate with him abroad, considered him very similar in his manners and opinions to Sydenham. His practice is said to have been distinguished for simplicity and

BARBO'TA. The barbut. A small river-fish. It is remarkable for the size of its liver, which is esteemed

the most delicate part of it.

[BARD, Dr. John. Dr. Bard was of French descent. His ancestors preferring their faith to their country, became exites under the provisions of the revocation of the edict of Nautes. Dr. Bard first settled in his profession in Philadelphia, but after practising in that city about five or six years, he was induced to remove to New-York in the year 1746. By the urbanity of his manners, his professional talents, and the charms of his conversation, which was enlivened by an uncommon flow of cheerfulness, enriched by sound sense, and adorned by a large fund of anecdote, he so effectually recommended himself to the notice and friendship of the most respectable families, that he was almost immediately introduced into a valuable scene of business, and very soon arrived at the first rank of professional eminence, which he retained through a long life of more than fourscore years. He died in March, 1799, leaving a son who afterward celipsed his lather in his professional career.—See Thack. Med. [BARD, DR. JOHN. Dr. Bard was of French descent. father in his professional career .- See Thach. Med.

Biog. A.]
[BARD, SAMUEL, M.D. LL.D. was the son of Dr. John Bard, and was born in Philadelphia, April 1, 1742. He acquired his classical education at Kings, the state of New York. He 1742. He acquired his classical education at Kings, now Columbia College, in the city of New-York. He spent five years abroad, and acquired his medical education principally in Edinburgh, where he received his degree of Doctor in Medicine in May, 1765. He commenced practice in New-York, but the events of the revolution prevented his success until the close of the war in 1783, after which he rose in professional eminence until he retired from practice in 1798. After his return from Europe, he was instrumental in establishing the medical feather which was anneyed to Columbia. ing the medical faculty which was annexed to Colum hia College, his alma mater, and he was appointed the first professor of the practice of physic. The estahas College, his afma mater, and he was appointed the first professor of the practice of physic. The establishment of the New-York hospital was effected principally by his exertions, and he was for many years one of the physicians to the institution. He was author of several medical essays, but the principal work of his is a system of midwifery, published after he retired from practice. Princeton College in New Jersey conferred upon him the degree of (LL.D.) Doctor of Laws, on account of the high reputation of his professional skill, learning, and abilities.—See

Thach. Med. Biog. A.]
BARDA'NA: (From bardus, foolish; because silly

BARDA'NA' (From bardus, foolish; because silly people are apt to throw them on the garments of passengers, having the property of sticking to whatever they touch.) Burdock. See Arctium lappa.

BARE'GE. The small village of Barege, celebrated for its thermal waters, is situated on the French side of the Pyrenees, about half way between the Mediterranean and the Bay of Biscay. The hot springs are four in number. They have all the same component parts, but differ somewhat in their temperature, and in the quantity of sulphur, the hottest being most strongly penetrated with this active ingredient. The coolest of these waters raises Eatmenheit's hermometer to 73 deg.; the hottest to 120 deg. Barege waters are remarkable for a very simpolt, soapy feel; they render the skin very supple and plinthe, and dissolve perfectly well soap and animal lymph; and are resorted to as a bath in resolving tumours of various kinds, rigidities, and contractions of the tendons, stiffness of the joints, left by rheumatic and gouty com-

plaints, and are highly serviceable in cutaneous erup tions. Internally taken, this water gives considerable relief in disorders of the stomach, especially attended with acidity and heart burn, in obstinate colles, jaun dice, and in gravel, and other affections of the urmary

BARI'LLA. See Barilla.
BARI'LLA. Barillor; Bariglia The term given in commerce to the impure soda imported from Span and the Levant. It is made by burning to ashes dif ond the Levant. It is made by burning to asnessari ferent plants that grow on the sea-solore, chiedly of the genus salsola, and is brought to us in bard porous masses, of a speckled brown colour. Kelp, which is made in this country by burning sea weeds, and is called British bardla, is much more impure.

Barilla is much used in the arts on account of the

soda it contains

"Carbonate of soda is chiefly obtained by the com-"Carbonate of soda is chiefly obtained by the com-bustion of marine plants, the ashes of which afford, by lixiviation, the impure alkali valled soda. Two kuds of rough soda occur in the market; hardla and kelp; besides which some native carbonate of soda is also imported. Barilla is the semitised ashes of the saleola soda, which is largely cultivated upon the Mediterranean shores of Spain, in the vicinity of Alicant. Kelp censists of the ashes of sea-weeds which are collected upon the sea coast and burned in kina, or merely in excavations made in the ground Which are collected upon the sea coast and burned in kilins, or merely in excavations made in the ground and surrounded by stones. It seldom contains more than five per cent, of carbonated alkali, and about 24 tons of sea-weed are required to produce one ton of kelp. The best produce is from the bardest fuel, such as the servatus, digitatus, nodowns, and west in losus. The rough alkali is contaminated by common

such as the servatus, digitatus, nodosus, and vesign losus. The rough alkali is contaminated by common salt, and impurities, from which it may be separated by solution in a small portion of water, filtrating the solution, and evaporating it at a low heat; the common salt may be skimmed off as its crystals form upon the surface."—See Webster's Man. of Chem. A.]

BARIUM. (From barytes, from which it is obtained) The metallic basis of the earth barytes, so named by Sir Humphrey Davy, who discovered it.

"Take pure barytes, make it into a paste with water, and put this on a plate of platinum. Make a cavity in the middle of the barytes, into which a cloimle of mercury is to be placed. Touch the globule with the negative wire, and the platinum with the positive wire, of a voltaic battery of about 100 pairs of plates in good action. In a short time an amalgam will be formed, consisting of mercury and barmm. This smalgam must be introduced into a fittle bent tube, made of glass free from lead, scaled at one end, which being filled with the vapour of naphtha, is then to be heamed; and less free from lead, scaled at one end, which being filled with the vapour of naphtha, is then to be heamed; and lies. The nearest will still over, while the barium will remain.

This must be accepted a dark gray colour, with a byte of the surface of dark gray colour, with a byte of the colour still a barty byte of the colour still a barty will be found and the surface of dark gray colour, with a byte of the colour still a barty byte of the colour still barium will remain.

This metal is of a dark gray colour, with a lastro This mean is of a dark gray colour, with a firster inferior to that of east iron. It is fusible at a red best. Its density is superior to that of sulphuric acid; for though surrounded with globules of gas, it sinks immediately in that liquid. When exposed to air, it in drately in that figure. When exposed to air, it in stantly becomes covered with a crust of baryles, and when gently beated in air, burhs with a deep red light. It effervesces violently in water, converting this

light. It effervesces violently in water, converting this liquid into a solution of barytes."

BARK. A term very frequently employed to signify, by way of eminence, Peruvian bark. See Cin.

Bark, Carribgan. See Cinchona Carribaa Bark, Jamuica. See Cinchona Carribaa. Bark, Peruvian. See Cinchona. Back, red. See Cinchona oblongifolia Back, red. See Canhona oblongifolia.
Bark, nellow. See Canhona condition.
Barkley. See Hordeam.
Barlen, caustic. See Cecadilla.
Barlen, caustic. See Cecadilla.
Barlen, pearl. See Hordeam.
BARM. See Beamentum corenisia.
BARNET. A town near London, where there is a mineral water; of a purging kind, of a similar quality to that of Epsom, and about half its strength.
[BAROLITE. The name given by Kirwan to the carbonate of barytes. A.]
BAROMETER. (From Baooc, weight, and paroox, measure.) An instrument to determine the weight of

measure.) An instrument to determine the weight of the air; it is commonly called a weather glass. Barolyte. A carbonate of barytes

BARO'NES Small worms; called also Nepones.
BAROS. (Bapos) Gravity. I. Hippocrates uses this word to express by it, an uneasy weight in any

It is also the Indian name for a species of camphire, which is distilled from the roots of the true cin-

(BAROSELENITE. Kirwan's name for the sul-

phate of barytes. A.]
BARRAS. Galipot. The resinous incrustation on the wounds made in fir-trees

the wounds made in fir-trees.

Barren Flower. See Flos.

BA RRENNPSS. See Sterility.

BA RRINNPSS. See Sterility.

BA RRINNPSS. Thomas, was born at Copenhagen in folio. After studying in various parts of Europe, particularly Padua, and graduating at Basil, he became professor of anatomy in his native city in which office he greatly distinguished himself, as well as in many other branches of learning. He was the first who described the lymphatics with accuracy, though some of these vessels, as well as the lacteads and thoracic duct, had been before discovered by other anatomists. Besides many learned works which he published, several others were unfortunately destroyed by fire in 1670; and he particularly regretted which he published, several others were unfortunately destroyed by fire in 1670; and he particularly regretted a dissertation on the accient practice of midwhiery, of which an outline was afterward published by his son Caspar. Of those which remain, the most estermed are, his epistolary correspondence with the most celebrated of his cotemporaries: his collection of cases where fectuses have been discharged by preternatural outlets; and the "Medical and Philosophical Transactions of Copenhagen," enriched by the communications of many correspondents. This last work was in tour volumes, published within the ten years preceding his death, which happened 1670; and a fifth was afterward added by his son.

Bartfuldina' Asses GLANDULE. See Sublinerual BARTHOLINIA'NÆ GLANDULÆ. See Sublingual

(BARTLETT, Josian, M. D. Dr. Bartlett was born in Amesbury in Massachusetts in 1729, and after ac quiring his profession commenced practice in the town quiring his profession commenced practice in the town of Kingston in New-Hampshire, where he had acquired considerable reputation before the commencement of the American revolution, in which he took an active and decided part in favour of his country... "From his integrity and decision of character, Dr. Bartlett was soon designated as a magistrate. and sustained various offices from the lowest to the highest. In 1775 he was chosen a delegate to the con-tinental congress. He attended in that honourable assembly, and when the vote for American Indepen-dence was taken, Dr. Bartlett's name was first called,

dence was taken. Dr. Bartlett's name was first called, as representing the most ensetty proxime, and he holdly answered in the affirmative." After the revolution he was elected governor of 'the state of New-Hampshire under the new form of government.

"His mind was quick and penetratine, his memory teracions, his judgment sound and prespective, his natural temper was open, humane, and compassionate. In all his dealings he was scrupton-sh just, and faithful in the performance of all his engagements. These ful in the performance of all his engagements. These shining talents accompanied with distinguished probity, early in his recommended him to the esteem and confidence of his fellow citizens. But few persons by their own merit, without the influence of family or party connexions, have risen from one degree of honour to another as he did; and fewer still have brean the instances in which a succession of honourable and important offices, investeen held, by any man with been

the instances rawhich a succession of honourable and important offices, have been held by any man with less envy, or executed with more general approbation."—See Phach, Med. Bing. A.]

See Phach, Med. Bing. A.]

[BARTON, BENJAMI SAITH, M. D. Dr. Barton was born at Lancaster in Pennsylvania in 1766. In 1786 he went to Great Britain, and possecuted his medical studies at Edinburgh and London. He afterward visited Gettingen, and there obtained the degree of doctor in medicine. On returning to Phitadelphia, in 1789, he established himself as a physician in that city, and his superior talents and education soon procured him competent employment. He was that year appointed Professor of Natural History and Botany in the College of Phitadelphia, and continued in the office on the incorporation of the college with the university. the configuration of the college with the university, on 1791. He was appointed Professor of Materia Medica on the resignation of Dr. Griffiths, and on the death of Dr. Rush, succeeded him in the department

The published, "Elements of Zoology and Booking," Elements of Botany, or Outlines of the Natural History of Vegetables," "Collections for an Essay towards a Materia Medica of the United States;" besides aumerous essays and communications contributed to the "Medical and Physical Journal."—See Thacher's

Med. Biog. A.]

BARYCOI'A. (From βαρυς, heavy, and ακουω, to hear.) Deafness, or difficulty of hearing.

BARYCOCOCALONE (From βαρυς, heavy, and κοκκα-

BARYOCO CEALONS (From βαρυς, heavy, and κοκκαλος, a nut; because it gives a deep sound.) A name for the stramomium.

BARYPHO'NIA. (From βαρυς, dull, and φωνη, the voice.) A difficulty of speaking.

BARYTE. See Heavy spar.

BARYTES. (From βαρυς, heavy; so called because it is very ponderous.) Cauk; Calk; Terra ponderosa; Baryta. Ponderous earth; Heavy earth. United with the sulphuric acid, it forms the mineral called sulphate of barytes, or baroselenite. When united to carbonic acid, it is called aFrated barytes, or carbonate of barytes. See Heavy spar.

Barytes, is a compound of barium and oxygen. Oxygen combines with two portions of barium, forming. I.

Barytes, is a compound of barium and oxygen. Oxygen combines with two portions of barium, forming, 1.

Barytes. 2. Deutoxyde of barium.

1. Barytes, or protoxyde of barium. "is best obtained by igniting, in a covered crucible, the pure crystallized nitrate of barytes. It is procured in the state of hydrate, by adding caughtic potassa or soda to a solution of the muriate of intrate. And barytes, slightly coloured with charcoal, may be obtained by strongly igniting the galbonate and chargoal mixed together in igniting the carbonate and charcoal miss of strongy in the powder. Barytes obtained from the ignited nitrate is of a whitish gray colour; more caustic than strontites, or perhaps even lime. It renders the syrup of violets green, and the infusion of tumeric red. Its specific gravity by Fourcroy is 4. When water in small quantity is poured on the dry carth, it stakes like quicklime, but perhaps with evolution of more heat. When swallowed it acts as a violent poison. It is destitute of smell.

When pure barytes is exposed, in a porcelain tube, When pure barytes is exposed, in a porceian tube, at a heat verging on ignition, to a stream of dry oxy gen gas, it absorbs the gas rapidly, and passes to the state of dentoxyde of barium. But when it is calcined in contact with atmospheric air, we obtain at first this dentoxyde and carbonate of barytes; the former of which passes very slowly into the latter, by absorption

of carbonic acid from the atmosphere.

of carbonic acid from the atmosphere.

2. The deutacyde of baction is of a greenish-gray zolour, it is caustic, renders the syrup of violets green, and is not decomposable by heat or light. The voltaic oile reduces it. Exposed at a moderate heat to carbonic acid, it absorbs it, emitting oxygen, and becoming authonate of bacytes. The deutoxyde is probably decomposed by sulphmetted hydrogen at ordinary temperatures. Aided by beat, almost all combustible bodnes, as well as many metals, decompose it. The action of hydrogen is accompanied with remarkable phenomena. phenomena.

Water at 50° F. dissolves one-twentieth of its weight Water at 50° r. aissoives one-twententor as weight of buryles, and at 212° about one half of its weight. It is coloudess, acrid, and caustic. It acts powerfully on the vegetable purples and yellows. Exposed to the air, it attracts curbonic acid, and the dissolved baryles is converted into carbonate, which falls down in inso-

table crusts

Sulphur combines with baryles, when they are mixed together, and heated in a crucible. The same compound is more economically obtained by igniting a pound is more economically obtained by igniting a mixture of sulplate of barytes and charcoal in fine powder. This sulphuret is of a reddish yellow colour, and when dry without smell. When this substance is put into hot water, a powerful action is manifested. The water is decomposed, and two new products are formed, namely, hydrosulphuret, and hydroguetted sulphuret of barytes. The first crystallizes as the liquid cools, the second remains dissolved. The hydrosulphuret is a compound of 9.75 of barytes with 2.125 constitution of the mixture of the mixture of the compound of 9.75 of barytes with 2.125 constitution of the mixture o sulphuretted hydrogen. Its crystals should be quickly suppurerted hydrogen. Its crystals should be quickly separated by filtration, and dried by pressure between the folds of porous paper. They are white scales, have a silky lustre, are soluble in water, and yield a zolution having a greenish tinge. Its taste is actid, bulphureous, and when mixed with the hydroguretted

of the Theory and Practice of Medicine. He died in Sulphuret, eminently corrosive. It rapidly attracts December, 1815.

He published, "Elements of Zoology and Botany," Sulphate of barytes. The hydroguretted sulpharet is a sulphuret, eminently corrosive. It rapidly auracts oxygen from the atmosphere, and is converted into the sulphate of barytes. The hydroguretted sulphuret is a compound of 9.75 barytes with 4.125 bisulphuretted hydrogen: but contaminated with sulphite and hyposulphite in unknown-proportions. The dry sulphuret consists probably of 2 sulphur + 9.75 barytes. The nydrogen: out contaminated with sulpine and nypo-sulpinie in unknown proportions. The dry sulphuret consists probably of 2 sulphur + 9.75 barytes. The readlest way of obtaining barytes water is to boil the solution of the sulphuret with deutoxyde of copper, which seizes the sulphur, while the hydrogen flies off, and the barytes remains dissolved.

and the barytes remains dissolved. Phosphuret of barytes may be easily formed by exposing the constituents together to heat in a glass tube. Their reciprocal action is so intense as to cause ignition. Like phosphuret of lime, it decomposes water, and causes the disengagement of phosphuretted hydrogen gas, which spontaneously inflames with contact of air. When sulphur is made to act on the deutoxyde of barytes, sulphuric acid is formed, which unites to a portion of the earth into a sulphate.

The salts of barytes are white, and more or less transparent. All the soluble sulphate cause in the soluble salts of barytes a precipitate insoluble in nitric acid. They are all poisonous except the sulphate; and hence the proper counter-poison is dilute sulphuric acid for the carbonate, and sulphate of sola for the

acid for the carbonate, and sulphate of soda for the soluble salts of barytes."

soluble salts of barytes."

Pure barytes has a much stronger affinity than any other body for sulphuric acid; it turns blue tincture of cabbage green. It is entirely infusible by heat alone, but melts when mixed with various earths. Its specific gravity is 4.000. It changes quickly in the air, swells, becomes soft, and falls into a white powder, with the acquisition of about one-fifth of its weight. This staking is much more active and speedy than that of lime. It combines with phosphorus, which compound decomposes water rapidly. It unites to sulphur by the dry and humid way. It has a powerful attraction for water, which it absorbs with a hissing noise, and consolidates it strongly. It is soluble in twenty and consolidates it strongly. It is soluble in twenty times its weight of cold, and twice its weight of boiling water. Its crystals are long four-sided prisms of a satin-like appearance. It is a deadly poisson to animals

Other Methods of obtaining Barytes.—1. Take na-tive carbonate of barytes; reduce it to a fine powder, and dissolve it in a sufficient quantity of diluted nitric acid; evaporate this solution till a pellicle appears, and then suffer it to crystallize in a shallow basin. The salt obtained is nitrate of bayytes; expose this nitrate of bayytes to the action of heat in a china cup, or silver crucible, and keep it in a dull red heat for at least one hour; then suffer the vessel to cool, and transfer the greenish solid contents, which are pure barytes, into a well-stopped bottle. When dissolved in a small quantity of distilled water, and evaporated, it may be ob-

inty of distinct water, and evaporated, it may be obtained in a beautiful crystalline form.

In this process the nitric acid, added to the native carbonate of barytes, unites to the barytes, and expels the carbonic acid, and forms nitrate of barytes; on exposing this nitrate to heat, it parts with its nitric acid, which becomes decomposed into its constituents,

leaving the barytes behind.

2. Pure barytes may likewise be obtained from its stiphate. For this purpose, boil powdered sulphate of barytes in a solution of twice or three times its weight of carbonate of potassa, in a Florence flash, for about two hours; filter the solution, and expose what remains on the filter to the action of a violent

In this case, the sulphuric acid of the barytes unites to the potassa, and the carbonic acid of the latter to the polassa, and the carbonic acid of the back-joints to the burytes; hence sulphate of polassa and carbonate of burytes are obtained. The former is in solution, and passes through the filter; the latter is insoluble, and remains behind. From this artificial carbonate of burytes, the carbonic acid is driven off

by heat. BARYTE MURIAS. Terra ponderosa salita. The muriate of barytes'is a very acrid and poisonous preparation. In small doses it proves sudorific, diuretic, deoistruent, and alterative; in an over-dose, emetic, and violently purgative. The late Dr. Crawford found and violently purgative. The late Dr. Crawford found it very serviceable in all diseases connected with scrofula; and the Germans have employed it with great success in some diseases of the skin and viscera, and obstinate ulcers. The dose of the saturated solution in

distilled water, is from five to fifteen drops for children.

distilled water, is from five to fifteen drops for children, and from fifteen to twenty for adults.

Basaal. (Indian.) The name of an Indian tree. A decoction of its leaves, with ginger, in water, is used as a gargle in disorders of the fauces. The kernels of the fruit kill worms.—Ray's Hist.

BASA/LTES. (In the Æthiopic tongue, this word means iron, which is the colour of the stone.) A heavy and hard kind of stone, found standing up in the form of regular angular columns, composed of a number of joints, one placed upon and nicely fitted to another as if formed by the hands of a skillful architect. It is found in beds and veins in granite and mice state, the old red sandstone, limestone, and coal formations. It is distributed over the whole world; but nowhere is it met with in greater variety than in nowhere is it met with in greater variety than in Scotland. The German basalt is supposed to be a wa-

Scotland. The German basalt is supposed to be a watery deposite; and that of France to be of volennico i ein.

The most remarkable is the columnar basaltes, which forms immense masses, composed of columns thirty, forty, or more feet in height, and of enormous thickness. Nay, those at Fairhead are two hundred and fifty feet high. These constitute some of the most astonishing scenes in nature, for the immensity and regularity of their parts. The coast of Antrim in Ireland, for the space of three miles in length, exhibits a very magnificent variety of columnar cities; and the land, for the space of three miles in length, exhibits a very magnificent variety of columnar cliffs; and the Giant's Causeway consists of a point of that coast formed of similar columns, and projecting into the sea upon a descent for several hundred feet. These columns are, for the most part, hexagonal, and fit very accurately together; but most frequently not adherent to each other, though water cannot penetrate between them. And the basaltic appearances on the Hebrides Islands on the coast of Scotland, as described by Sir Joseph Banks, who visited them in 1772, are upon a scala very striking for their vastess and variety. scale very striking for their vastness and variety

[Basaltes belongs to a class of rocks now called uperincumbent. They are always found in a vertical superincumbent. super-nacumbent. They are always found in a vertical position, resting upon other strata of rocks which are horizontal. Some of the most remarkable of these are the Pallisada rocks, extending forty miles or more along the Hudson river, on its west bank, partly in New-Jersey and partly in the state of New-York. There are other ridges of the same formation in other A nere are other ringes of the same formation in other parts of New Jersey, all tresting upon sandstone. On the south shore of Lake Superior, the basaltic rocks, as they have been described by travellers, particularly by Mr. Schoolcraft, have a grand and imposing appearance. There is a ridge of this kind of rock extending a number of miles north from New-Haven, in the state of Connecticut. A singular formation of basaltic rocks is found in North Carolina, constituting a wall many miles in extent, which has given rise to much controversy; but Dr. Woodhouse, of Philadelphia, settled the question, as to the true nature of this for-

mation.

"Basalt (says professor Eaton) is a hornblende rock, not primitive, probably of volcanic origin. Subdivisions—Amygdaloid, when amorphous, of a compact texture, but containing cellules, empty or filled. Greenstone trap, when of a columnar structure, or in angular blocks, often coarse-grained. Variety—Toadstone, when the amygdaloid has a warty appearance, and resembles slag." A.]

Brostlic harmblende.—See Harmblende.

stone, when the anisymmote has a warry appearance, and resembles slag." A.]

Basattic hornblende. See Hornblende.

BASANITE. See Flindy slate.

BASANITES. (From βασανίζω, to find out.) A stone said, by Pliny, to contain a bloody juice, and useful in diseases of the liver: also a stone upon which, by

said, by Finly, to Chann a bloody Jacobs which, by some, the purity of gold was formerly said to be tried, and of which medical mortars were made.

BASE. See Basis.

Base, acidifying. See Acid.

Base, acidifying. See Acid.

Basia'Tio. (From basio, to kiss: Venereal connexion between the sexes.

BASIA'TOR. See Orbicularis oris

BASILA'RIS. See Basilary.

BASILA'RIS. See Basilary.

BASILA'RIS. See Basilary artery. An artery of the brain; so called, because it lies upon the basilary process of the occipital bone. It is formed by the junction of the two vertebral arteries within the skull, and runs forwards to the sella turcica along the pons varoli, which it supplies, as well as the adjacent parts, with lii, which it supplies, as well as the adjacent parts, with

BASILARIS PORCESSUS See Occupied bone.
BASILARY (Basilaris from bankers, a king.)
Several parts of the body, bones, attenes, veins, processes, &c. were so named by the ancients, from their situation being connected with or leading to the liver or brain, which they considered as the seat of the soul or royalty.

BASILICA MEDIANA. See Basilica vena.
BASILICA NUX. The walnut.
BASILICA VENA. The large vein that runs in the internal part of the arm, and evacuates its blood into the avillary vein. The branch which crosses, at the head axillary vein. of the arm, to join this vein, is called the bastic median. They may either of them be opened in the operation of bloodletting.

operation of bloodletting.

Busilioom. See Basilioum unguentum.

BASI'LICUM. (Prom Buoliuso, royal; so called from its great virtues.) See Ocinium basilicum.

Basilicum unquentum. Unguentum basilicum that having the ocimum basilicum in its composition. [1] and is now called ceratum resina.

BASHACUS. (From βασιλευς, a king. See Basi-

dary.) Basilic.

Eastlices pulvis. The royal powder. A preparation formerly composed of calomel, rhubarb, and julap.

Many compositions were, by the ancients, so called, from their supposed pre-eminence.

Basili'dion. An itchy ointment was formerly so called by Galen.

called by Galen.
BA'SILIS. A name formerly given to collyriums of supposed virtues, by Galen.
BASILI'SCUS. (From βασιλευς, a king.) 1. The basilisk, or cockarice, a poisonous serpent; so called from a white spot upon its head, which resembles a

2. The philosopher's stone.
3. Corrosive sublimate.
BASIO. Some muscles so have the first part of their names, because they originate from the basilary process of the occipital bone.

BANIO CERATO CHONDRO GLOSSUS. See Hyoglossus. Basio-Glossum. See Hyoglossus. Basio-Pharynghus. See Constrictor pharyngis

manus. BA'SIS. (From  $\beta a \nu \omega_0$ , to go: the support of any thing, upon which it stands or goes.) Base. I. This word is frequently applied anatomically to the hody of any part, or to that part from which the other parts appear, as it wefe, to proceed, or by which they are supported.

 In pharmacy it signifies the principal ingredient.
 In chemistry, usually applied to alkalies, earths, and metallic oxydes, in their relations to the acids and and metatic oxydes, in their relations to the achievant salts. It is sometimes also applied to the particular constituents of an acid or oxyde, on the supposition that the substance combined with the oxygen, &c. the basis of the compound to which it owes its particular qualities. This notion seems implificationally in the particular qualities.

cutar qualities. This notion seems unphilosophical, as these qualities deperd as much on the state of combination as on the nature of the constituent.

Bast cotica. The name of a medicine in Seribonius Largus, compounded of aromatics and honey.

BASSORINE. This substance is extracted from the gum resins which contain it, by treating them successively with water, alkohol, and arther. Bassorine being insoluble in these liquids, remains mixed merely with the woody particles, from which it is easy to separate it, by repeated washings and decantations: because one of its characteristic properties is to swell extremely in the water and to become very buoyant. This substance swells up in cold as well as in builling extremely in the water and to become very buoyant. This substance swells up in cold as well as in boiling water, without any of its parts dissolving. It is soluble however almost completely by the aid of heat, in water sharpened with nitric or muriatic acid. If after concentrating with a gentle heat the nitric solution, we add highly rectified alkohol, there results a lightly rectified. white precipitate, flocculent and bulky, which, washed with much alkohol and dried, does not form, at the utmost, the tenth of the quantity of bassorine em-

numos, are cannot the quantity of bassorine employed, and which presents all the properties of gunarabic. Vauquelin, Bulletin de Pharmaeie, iii. 56.

BASTARD. A term often employed in medicine, and botany, to designate a disease or plant which has the appearance of, but is not in reality what it resentations.

bles: The name of that which it similates is generally attached to it, as bastard peripneumony, bastard pel litory, &cc

Bastard pellitory. See Achillea ptarmica.
Bastard pleurisy. See Peripucumonia notha.
Bata'tas. (So the natives of Peru call the root of BATA TAS. (So the Polato, which is a national accountry. See Solanum tuberosum, and Con-

[The Solanum tuberosum is the common potato, from which all the edible varieties are derived. The Convolvulus balatas in ...
of the United States. A.]
The purging potato.
Rulngum. A bath. Convolvulus batatas is the Carolina or sweet potato

A convenient receptacle of water, for persons to wash or plunge in, either for health or pleasure. These are distinguished into hot and cold; and are either natural or artificial. The natural hot baths are formed of the water of hot springs, of which there are many of the water of hot springs, of which there are many in different parts of the world; especially in those countries where there are, or have evidently been, volcanoes. The artificial hot baths consist either of water, or of some other fluid, made hot by art. The cold bath consists of water, either fresh or salt, in its natural degree of heat; or it may be made colder by art, as by a mixture of nitre, sal-ammoniac, &c. The chief hot baths in our country are those of Bath and Bristol, and those of Buxton and Mattock; which latter houseare see or the salt of the salt ter, however, are rather warm, or tepidy than hot. The use of baths is found to be beneficial in diseases of the head, as palsies, &cc.; in cuticular diseases, &s leprosies, &cc.; obstructions and constipations of the leprosses, &c.c.; obstructions and consulpations of the bowels, the sourvy, and stone; and in many diseases of women and children. The cold bath, though popularly esteemed one of the most innocent remedies yet discovered, is not, however, to be adopted indiscriminately. On the contrary, it is liable to do considerable mischief in some cases of diseased viscera, and is not, in any case, proper to be used during the existence of costiveness. As a preventive remedy for the young, and as a general bracer for persons of a relaxed fibre, especially of the female sex, it often proves highly advantageous; and, in general, the popular idea is a correct one, that the glow which succeeds the use of cold or temperate bath, is a test of their utility; while, on the other hand, their producing chilliness, head-

ache, &c. is a proof of their being permicious.

1. The Cold Bath. The diseases and morbid symptoms, for which the cold bath, under one form or another, may be applied with advantage, are very numerous; and some of them deserve particular attention. One of the most important of its uses is in ardent fever; and, under proper management, it forms a highly valuable remedy in this dangerous disorder. It inginy valuate remety in this dangerous disperser. It is highly important, however, to attend to the precautions which the use of this vigorous remedial process requires. "Affusion with cold water," Dr. Currie observes, "may be used whenever the heat of the body is steadily above the natural standard, when there is no sense of childness, and especially when there is no general nor profuse perspiration. If used during the cold stage of a fever, even though the heat be higher than natural, it brings on interruption of respiration, a than natural, it brings on interruption or respiration, a fluttering, weak, and extremely quick pulse, and cer-tainly might be carried so far as to extinguish anima-tion entirely." The most salutary consequence which follows the proper use of this powerful remedy, is the production of free and general perspiration. It is this circumstance that appears to give so much advantage to a general affusion of cold water in fevers, in preference to any partial application. The cold bath is better known, especially in this country, as a general tonic remedy in various chronic diseases. The general cir-cumstances of disorder for which cold bathing appears to be of service, according to Dr. Saunders, are a langour and weakness of circulation, accompanied with profuse sweating and fatigue, on very moderate exer-tion; tremors in the limbs, and many of those symptoms usually called nervous; where the moving powers are weak, and the mind listless and indolent; but, at the same time, where no permanent morbid ob-struction, or visceral disease, is present. Such a state of body is often the consequence of a long and debili-tating sickness, or of a sedentary life, without using the exercise requisite to keep up the activity of the bodily powers. In all these cases, the great object to

be fulfilled, is to produce a considerable reaction, from the shock of cold water, at the expense of as little heat as possible; and when cold bathing does barn, it is precisely where the powers of the body are too it is precisely where the powers of the body are too languid to bring on reaction, and the childing effects remain unopposed. When the patient feels the shock of immersion very severely, and, from experience of its pain, has acquired an insuperable dread of this application; when he has felt little or no friendly glow to succeed the first shock, but on coming out of the bath remains cold, shivering, sick at the stomach, opnessed with headache. languid, drower, and listless. pressed with headache, languid, drowsy, and listless, and averse to food and exercise during the whole of the day, we may be sure that the bath has been too cold, the shock too severe, and no reaction produced at all adequate to the impression on the surface of the

body,
There is a kind of slow, irregular fever, or rather febricula, in which Dr. Saunders has often found the cold bath of singular service. This disorder principally affects persons naturally of a sound constitution. but who lead a sedentary life, and at the same time are employed in some occupation which strongly enare employed in some occupation which strongly engages their attention, requires much exertion of thought, and excites a degree of anxiety. Such persons have constantly a pulse rather quicker than natural, but hands, restless nights, and an impaired appetite, but without any considerable derangement in the digestive organs. This disorder will continue for a long time in an irregular way, never entirely preventing their ordinary occupation, but rendering it more than usually anxious and fatiguing, and often preparing the way for confirmed hypochondriasis. Persons in this situation are remarkably relieved by the cold bath, and, for the most part, bear it well; and its use should also, if possible, be aided by that relaxation from business, and that diversion of the mind from its ordinary train of thinking, which are obtained by attending a watering place. The Doctor also found cold bathing watering place. The Doctor also found cold bathing hurtful in chlorosis, and observes, that it is seldom ad-visable in those cases of disease in the stomach which are brought on by high living, and constitute what may be termed the true dyspepsia.

The topical application of cold water, or of a cold saturnine lotion, in cases of local inflammation, has become an established practice; the efficacy of which is daily experienced. Burns of every description will bear a most liberal use of cold water, or even of ice and this may be applied to a very extensive inflamed surface, without even producing the ordinary effects of general chilling, which would be brought on from the same application to a sound and healthy skin. the same application to a sound and nearly skill.

Another very distressing symptom, remarkably reflexed
by cold water, topically applied, is that intolerable
itching in the vagina, which women sometimes experience, entirely unconnected with any general cause,
and which appears to be a kind of herpes confined to that part. Cold water has also been used topically in the various cases of strains, bruises, and similar inju-ries, in tentinous and ligamentous parts, with success, ries, in tentinous and ligamentous parts, with success, also in rigidity of muscless, that have been long kept at rest, in order to favour the union of bone, where there appears to have been no organic injury, but only a deficiency of nervous energy, and in mobility of parts, or at most, only slight adhesions, which would give way to regular exercise of the weakened himb. Another very striking instance of the powerful effects of topical cold, in stimulating a part to action, is shown in the use of cold, or even iced water, to the vagina of perturient women, during the dangerous hæmorrhages that take place from the uterus, on the partial separation of the placenta.

The Shower Bath. A species of cold bath. modern invention, in which the water falls through numerous apertures on the body. A proper apparatus for this purpose is to be obtained at the shops. The for this purpose is to be obtained at the shops. The use of the shower bath applies, in every case, to the same purposes as the cold bath, and is often attended with particular advantages. 1. From the sudden contact of the water, which, in the common cold bath, is only momentary, but which, in the shower bath, may be prolonged, repeated, and modified, at pleasure; and, secondly, from the head and breast, which are exposed to some inconvenience and danger in the and, secondly, from the head and orders, which are exposed to some inconvenience and danger in the common bath, being here effectually secured, by receiving the first shock of the water.

3. The Topid Bath The range of temperature,

BAT

of the cold bath, forms what may be termed the tepid. In general, the heat of water which we should term tepid, is about 90 deg. In a medicinal point of view, it produces the greatest effect in ardent fever, where the temperature is little above that of health, but the powers of the body weak, not able to bear the vigor-

powers of the body weak, not able to bear the vigorous application of cold immersion. In cutaneous diecases, a tepid bath is often quite sufficient to produce
a salutary relaxation, and perspirability of the skin.
4. The Into Bath. From 931005 deg. of Fairnenheit,
the hot bath has a peculiar tendency to bring on a
state of repose, to alleviate any local irritation, and
thereby induce sleep. It is, upon the whole, a safer
remedy than the cold bath, and more peculiarly applicable to very weak and irritable constitutions, whom the shock produced by cold immersion would over-power, and who have not sufficient vigour of circulation for an adequate reaction. In cases of topical inflam-nation, connected with a phogistic state of body, preceded by rigour and general fever, and where the local formation of matter is the solution of the general inflammatory symptoms, experience directs us to the use of the warm relaxing applications, rather than those which, by exciting a general reaction, would increase the local complaint. This object is particularly to be consulted when the part affected is one that is essential to life. Hence it is that in fever, where there is a great determination to the lungs, and the respiration appears to be locally affected, independently of the oppression produced by mere febrie increase of circulation, practitioners have avoided the external use of cold, in order to promote the solution of the fever; and have trusted to the general antiphilogistic treatment, along with the topically relaxing application of warm vapour, inhaled by the lungs. Warm bathing appears to be peculiarly well calculated to relieve those complaints that seem to depend on an irregular or diminished action of any part of the alimentary canal; and the state of the skin, produced by immersion in warm water, seems highly favourable to the healthy action of the stomach and bowels. Another the produced of the stomach and bowels. the oppression produced by mere februe increase of the healthy action of the stomach and bowels. ther very important use of the warm bath, is in her petic eruptions, by relaxing the skin, and rendering it more pervious, and preparing it admirably for receiving the stimulant applications of tar of atment, mercuhials, and the like, that are intended to restore it to a healthy state. The constitutions of children seem more extensively relieved by the warm bath than those of adults; and this remedy seems more generally ap-plicable to acute fevers in them than in persons of a none advanced age. Where the warm bath produces its salutary operation, it is almost always followed by an easy and profound sleep. Dr. Saunders strongly recommends the use of the tepid bath, or even one of a higher temperature, in the true menorrhagia of fe-males. In paralytic affections of particular parts, the powerful stimulus of heated water is generally allowed; und in these cases, the effect may be assisted by any thing which will increase the stimulating properties of the water; as, for instance, by the addition of salt. In these cases, much benefit may be expected from the use of warm sea baths. The application of the warm bath topically, as in pediluvia, or fomentations to the feet, often produces the most powerful effects in quicting irritations in fever, and bringing or a sound and expecting account of the produces the most powerful effects in quicking the cases. The cases is which the warm bath refreshing repose. The cases in which the warm bath is likely to be attended with danger, are particularly those where there exists a strong tendency to a deter-The cases in which the warm bath mination of blood to the head; and apoplexy has sometimes been thus brought on. The lowest temperature will be required for cutaneous complaints, and to bring on relaxation in the skin, during febrile irritation; the warmer will be necessary in paralysis: more heat should be employed on a deep-seated part than

one that is superficial.

5. The Vapour Bath. The vapour bath, called also Batneum laconicum, though not much employed in England, forms a valuable remedy in a variety of cases. In most of the hot natural waters on the Con-tinent, the vapour bath forms a regular part of the bathing apparatus, and is there highly valued. In no country, however, is this application carried to so great an extent as in Russia, where it forms the principal and almost daily luxury of all the people, in every rank; and it is employed as a sovereign remedy for a great variety of disorders. The Hon. Mr. Basil Coch-122

from the lowest degree of the hot bath to the highest rane has lately published a Treatise on the Vapour Bath, from which, it appears, he has brought the apparatus to such perfection, that he can apply it to all degrees of temperature, partially or generally, by shower, or by steam, with a great force or a small one; according to the particular circumstances under which according to the particular circumstances under which patients are so variously placed, who require such assistance. See Cacheane on Vapour Baths. Connected with this article, is the aer pump vapour bath as species of vapour bath, or machine, to which the inventor has given this name. This apparatus has been found efficacious in removing paroxysms of the gout, and preventing their recurrence; in acute and chronic rheumatism, palsy, cutaneous diseases, ulcers, &c., these also been pranosed in children, forecast, ways. It has also been proposed in chilblains, leprosy, yaws, tetanus, amenorrhea, and dropsy.

The vapour bath has been introduced and success

[The vapour bath has been introduced and successfully applied in many cutaneous and other diseases, in the city of New York. This bath may be either aqueous or spirituous. Its immediate effect is to produce relaxation of the skin and copious perspiration. It may be made a medicated bath by passing the steam or vapour through a quantity of herbs, before it is applied to the body of the person requiring it. A.]

If. Those applications are called dry baths, which are made of ashes, sail, sand, &c. The ancients had many ways of exciting a sweat, by means of a dry leat, as by the use of hot sand, stove rooms, or artificial bagnios; and even from certain natural hot steams of the earth, received under a proper arch, or hot house, as we learn from Celsus. They had also another kind of bath by inselation, where the body hot house, as we learn from Celsus. They had also another kind of bath by insolation, where the body was exposed to the sun for some time, in order to draw forth the superfluous moisture from the inward parts; and to this day it is a practice, in some nations, to cover the body over with horse dung, especially in painful chronic diseases. In New-England, they make a kind of stove of turf, wherein the sick are shut up to hatthe, or sweat. If was probably from a knowledge of this practice, and of the exploded doctrines of Celsus, that the noted empiric Dr. Graham drew his notions of the salutary effects of what he called earth notions of the saturary effects of what he called earth bottleing. a practice which, in the way he used it, consigned some of his patients to a perpetual mansion under the ground. The like name of dry bath, is sometimes also given to another kind of bath, made of kindled coals, or burning spirit of wine. The patient being placed in a convenient close chair, for the reception of the fume, which rises and provokes sweat in a plentiful manner; care being taken to keep the head out, and to secure respiration. This bath has been said to be very effectual in removing old ob-

stinate pains in the limbs.

III. Medicated baths are such as are saturated with various mineral, vegetable, or sometimes animal substances. Thus we have sulphur and iron baths, aromatic and milk baths. There can be no doubt that such ingredients, if duly mixed, and a proper temperature given to the water, may, in certain complaints, be productive of effects highly beneficial. Water, impregnated with subinate of non, will abound with the bracing particles of that metal, and may be useful for strengthening the part to which it is applied, re-invi-gorating debilitated limbs, stopping various kinds of bleeding, restoring the menstrual and hamorrhoidal discharges when obstructed, and, in short, as a substitute for the natural from bath. There are various other medicated baths, such as those prepared with alum, and quiek lime, sal-ammoniac, &c. by boiling them together, or separately, in pure rain water. These have long been reputed as eminently serviceable in paralytic, and all other diseases arising from nervous and muscular debility.

IV. A term in chemistry, when the vessels in which bodies are exposed to the action of heat, are not placed in immediate contact with the fire, but receive the required degree of heat by another intermediate body, such apparatus is termed a bath. These have been variously named, as dry, vapour, &c. Modern chemists distinguish three kinds

1. Balneum arenæ, or the sand bath. This consists merely of an open iron, or baked clay sand-pot, whose bottom is mostly convex, and exposed to the furnace. Finely sifted sea sand is put into this, and the vessel containing the substance to be heated, &c. in the sand bath, immersed in the middle.

2. Balneum maria, or the water bath. This is very

simple, and requires no particular apparatus. object is to place the vessel containing the substance to be heated, in another, containing water; which last must be of such a nature as to be fitted for the application of fire, as a common still, or kettle.

application of fire, as a common still, or kettle.

3. The vapour hath. When any substance is heated by the steam, or vapour, of boiling water, chemists say it is done by means of a vapour bath.

BATH WATERS. Bathanica aquae; Solis aquae; Badiguae aquae. Bath is the name of a city in Gloucestershire, that has been celebrated, for a long series of years, for its numerous hot springs, which are of a higher temperature than any in this kingdom, (from 1120 to 1169); and, indeed, are the only natural waters which we passess that more itall but to the touch; all which we possess that are at all hot to the touch; all the other thermal waters being of a heat below the animal temperature, and only deserving that appellation from being invariably warmer than the general average of the heat of common springs. By the erecaverage of the heat of common springs. By the even-tion of elegant baths, these waters are particularly adapted to the benefit of invalids, who find here a variety of establishments, contributing equally to health, convenience, and amusement. There are three principal springs in the city of Bath, namely, those called the King's Bath, the Cross Bath, and the Hot Bath; all within a short distance of each other, and construing themselves into the rives Ayon, after and emptying themselves into the river Avon, after having passed through the several baths. Their sup-Their supply is so copious, that all the large reservoirs used for bathing are filled every evening with fresh water from bathing are filled every evening with fresh water from their respective fountains. In their sensible and medicinal properties, there is but a slight difference. According to Dr. Falconer, the former are—1. That the water, when newly drawn, appears clear and colour-less, remains perfectly inactive, without bubbles, or any sign of briskness, or effer vescence. 2. After being exposed to the open air for some hours, it becomes rather turbid, by the separation of a pale yellow, othery precipitate, which gradually subsides. 3. No odour is perceptible from a glass of the fresh water, but a slight pungency to the taste from a large mass of it, when fresh drawn: which, however, is neither faction when fresh drawn: which, however, is neither fietid nor sulphureous. 4. When hot from the pump, it affects the mouth with a strong chalybeate impression, without being of a saline or purgent taste. And, fifthly, on growing coid, the chalybeate taste is entirely fifthiy, on growing coud, the chalyheate laste is entirely lost, leaving only a very slight sensation on the tongue, by which it can searcely be distinguished from common hard spring-water. The temperature of the King's Bath water, which is usually preferred for drinking, is, when fresh drawn in the glass, above 116°; that of the Cross Bath, 112°. But, after flowing into the spacious bathing vessels, it is generally from 100° to 106° in the hotter baths, and from 92° to 104° in the laster baths, and from 92° to 104° in the laster baths, and from 92° to 104° in the laster baths, and from 92° to 104° in the laster baths, and from 92° to 104° in the laster baths, and from 92° to 104° in the laster baths, and from 92° to 104° in the laster baths, and from 92° to 104° in the laster baths, and from 92° to 104° in the laster baths, and from 92° to 104° in the laster baths, and from 92° to 104° in the laster baths are laster baths. 1900 in the Cross Bath, a temperature which remains nearly stationary, and is greater than that of any other natural spring in Britain. A small quantity of gas is also disengaged from these waters, which Dr. Priessley first discovered to contain no more than one twentieth first discovered to contain no more than one twentieth part of its bilk of fixed air, or earbonic acid. The chemical properties of the Bath waters, according to the most accurate analyzers, Doctors Lucas, Pateoner, and Gibbs, contain so small a proportion of iron, as to amount only to one-twentieth or one-thirty-eighth of a grain in the pint; and, according to Dr. Gibbs, fifteen grains and a quarter of siliceous earth in the gallon. Dr. Samders estimates a gallon of the King's Path water to contain; what terity cable includes of care Bath water to contain about eight cubic inches of car bonic acid, and a similar quantity of air, nearly azotic, about eighty grains of solid ingredients, one half of which probably consists of sulphate and muriate soda, fifteen grains and a half of siliceous earth, and the remainder is selenite, carbonate of lime, and so small a portion of oxyde of iron as to be scarcely cal Hence he concludes, that the King's Bath contains. Hence he concludes, that he king's bain water is the strongest chalybeate; next in order, the Hot Bath water; and, lastly, that of the Cross Bath, which contains the smallest proportions of chalybeate, gaseous and saline, but considerably more of the earthy particles; while its water, in the pump, is also two degrees lower than that of the others. It is like wise now ascertained, that these springs do not exhibit the slightest traces of sulphur, though it was formerly believed, and erroneously supported, on the authority of Dr. Charleton, that the subtile aromatic vapour in the Bath waters, was a sulphurous principle entirely similar to common brimstone.

With regard to the effect of the Bath waters on the human system, independent of their specific properties, hitman system, independent of their specific properties, as a medicinal remedy not to be mutated completely by any chemical process, Dr. Saunders attributes much of their salubrious influence to the natural degree of warmth peruliar to these springs, which, for ages, have preserved an admirable degree of uniformity of temperature. He thinks foo, that one of their most important uses is that of an external application, yet supposes that, in this respect, they differ little from common water, when heated to the same temperature, and smalled under similar circumstances. and applied under similar circumstances.

According to Dr. Falconer, the Bath water, when drunk fresh from the spring, generally raises, or rather accelerates the pulse, increases the heat, and promotes the different secretions. These symptoms in most cases, become perceptible soon after drinking it, and cases, accome perceptione soon after arriving 16 and will sometimes continue for a considerable time. It is, however, remarkable, that they are only produced in invalids. Hence we may conclude, that these waters not only possess heating properties, but their internal use is likewise attended with a peculiar stimu-

lus, acting more immediately on the nerves

One of the most salutary effects of the Bath water, consists in its action on the urinary organs, even when taken in moderate doses. Its operation on the bowels varies in different individuals, like that of all other varies in different individuals, like that of all other waters, which do not contain any cathartic salt; but, in genegal, it is productive of costiveness: an effect resulting from the want of an active stimulus to the intestines, and probably also from the determination this water occasions to the skin, more than from any astringency which it may possess; for, if perspiration be suddenly checked during the use of it, a diarrhead is sometimes the consequence. Hence it appears that its stimulant powers are primarily, and more particularly exerted in the stomach, where it produces a variety of symptoms, sometimes slight and transient, but, occasionally, so considerable and permanent, as to require it to be discontinued. In those individuals with whom it is likely to agree, and prove beneficial, the Bath waters excite, at first, an agreeable glowing sensation in the stomach, which is speedily followed by an increase both of appetite and spirits, as well as a quick secretion of urine. In others, when the use of them is attended with headache, thirst, and constant dryness of the tongue, heaviness, loathing of the stomach and sighness; or if they are not against expense. dryness of the tongue, heaviness, loathing of the sto-mach, and sickness; or if they are not evacuated, either by urine or an increased perspiration, it may be justly inferred that their further continuance is im-

The diseases for which these celebrated waters are The diseases for which these felebated waters are resorted to, are very unnerous, and are some of the most important and difficult to cure of all that come under medical treatment. In most of them, the bath is used along with the waters, as an internal medicine. The general indications, of the propriety of using this medicinal water, are in those cases where a gentle, gradual, and permanent stimulus, is required. Bath water may certainly be considered as a chalybeate, in which the transits generallian quantity, but to a highly water may certainly be considered as a enaryoene, in which the iron is very small in quantity, but in a highly active form; and the degree of temperature is in itself a stimulus, often of considerable powers. These cir-cumstances again point out the necessity of certain cautions, which, from a view of the mere quantity of foreign contents, might be thought superfluous. At though, in estimating the powers of this medicine, allowance must be made for local prejudice in its fayour, there can be no doubt but that its employment is hazardous, and might often do considerable mischief, in various cases of active inflammation, especially in irritable liabits, where there exists a strong tendency to bectic feyer; and even in the less inflammatory state of diseased and suppurating viscera; and, in general, wherever a quick pulse and dry tongue indicate a degree of general fever. The cases, therefore, to which this water are peculiarly suited, are mostly of the chronic kind; and by a stendy perseverance in this remedy, very obstinate disorders have given way. The following, Dr. Saunders, in his Treatise on Mineral Waters, considers as the principal, viz. I. Chlorosis, a disease which, at all times, is much relieved by steel, and will hear it, even where there is a considerable degree of feverish irritation, receives particular benefit from the bath water; and is usee, as a warm in various cases of active inflammation, especially in benefit from the bath water; and its use, as a warm bath, excellently contributes to remove that languor of circulation, and obstruction of the natural evacuations!

which constitute the leading features of this common [from its likeness to a frog.) The herb crow's foot, or 2. The complicated disand troublesome disorder. cases, which are often brought on by a long residence cases, which are often brought on my a long residence in hot climates, affecting the secretion of bile, the functions of the stomach, and alimentary canal, and functions of the stomach, and alimentary canal, and which generally produce organic derangement in some part of the hepatic system, often receive much benefit from the bath water, if used at a time when suppurative inflammation is not actually present. 3. Another and less active disease of the biliary organs, the jaundice, which arises from a simple obstruction of the gall-ducts, is still oftener removed by both the internal and external use of these waters. 4 In them. the garanton, sent them to be considered the ternal and external use of these waters. 4. In rheumatic complaints, the power of this water, as Dr. Charleton well observes, is chiefly confined to that species of rheumatism which is unattended with infaumation, or in which the patient's pains are not increased by the warmth of his bed A great number of the patients that resort to Bath, especially those that of the patients that resort to fath, especially those that are admitted into the hospital, are affected with rheumatism in all its stages; and it appears, from the most respectable testimony, that a large projontion of them receive a permanent cure. (See Falconer on Bath Water in Rheumatic Cases.) 5. In gout, the greatest heavest for a character of the patients of Water in Rheumatic Cases.) 5. In gout, the greatest benefit is derived from this water, in those cases where it produces anomalous affections of the head, stomach, and bowels; and it is here a principal advantage to be able to bring, by warmth, that active local inflammation in any limb, which relieves all the other troublesome and dangerous symptoms. Hence it is that Bath water is commonly said to produce the gout; by which is only meant that, where persons have a gouty affection, shifting from place to place, and thereby much disordering the system, the internal and external use of the bath water will soon bring on a general increase of action, indicated by a flushing in the face, crease of action, indicated by a flushing in the face, crease of action, indicated by a flushing in the face, fulness in the circulating vessels, and relief of the dyspeptic symptoms; and the whole disorder will terminate in a regular fit of the gour in the extremities, which is the crisis always to be wished for. 6. The colica pictonum, and the paralysis or loss of nervous power in particular limbs, which is one of its most set. rious consequences, is found to be peculiarly relieved by the use of the Bath waters, more especially when applied externally, either generally, or upon the part

The quantity of water taken daily, during a full course, and by adults, is recommended by Dr. Falconer, not to exceed a pint and a half, or two pints; and in chlorosis, with irritable habits, not more than one pint is employed; and when the bath is made use of, it is generally two or three times a week, in the morning. The Bath waters require a considerable time to be persevered in, before a full and fair trial can be made Chronic rheumatism, habitual gout, dyspepsia, from a long course of high and intemperate living, and the like, are disorders not to be removed by a short course of any mineral water, and many of those who have once received benefit at the fountains, find it necessary to make an annual visit to them, to repair the waste

in health during the preceding year.

BATH, CAUTERES. A sulphureous bath near Barege, which raises the mercury in l'abrenheit's thermometer

BATH, ST. SAVIOUR'S. A sulphureous and alkaline bath, in the valley adjoining Barege, the latter of which raises Fahrenheit's thermometer as high as 1319. It is much resorted to from the South of France, and used chiefly externally, as a simple thermal water.

Bath, cold. See Bath.

Bath, bot. See Bath.

Bath, topid. See Bath.

Bath, topid. See Bath.

Bath, appur. See Bath.
Bath, appur. See Bath.
Bathmus. (From βatvo, to enter.) Bathmus.
The seat, or base; the cavity of a bone, with the protuberance of another, particularly those at the articulation of the humerus and ulna, according to Hippocrates and Galen.

BATHO'NIE AQUE. See Bath waters

BATHO NLE AQUE. See Eath volters.

BATHOSON. (From βαινο, to enter.) Bathrum.

The same as bathmis; also an instrument used in the extension of fractured limbs, called scammum—Hippocrates. It is described by Oribasius and Scuttetus.

BATIA. A retort. Obsolvie.

BATIANON-NORON. (From βατος, a pramble, and μορου, a raspherry.)

The raspherry.

BATRACHIUM. (From βατραχος, a frog; so called 124

BATRACHUS. (From βατραχος, a frog; so called because they who are infected with it croak like a frog.) An inflammatory tumour under the tongue. Ranula

[BATRACHIAN. Batrachian animals. A term used in natural history, intended to include all animals of the frog, toad, or lizard kind. A.]

og, load, or lizard vind. Asy BATTARI'SMUS. (From Barros, a Cyrenwan prince, ho stammered.) Stammering; a defect in pronunwho stammered.) ciation. See Psellismus.

BATTA'TA VIRGINIANA. See Batatas, and Convolvulus batatas.

BATTA'TA PEREGRINA. The cathartic potato; perhaps a species of ipomen. If about two ounces them are eaten at bed-time, they greatly move the

belly the next morning.

BATTIE, WILLIAM, was born in Devonshire, in BATTIE, WILLIAM, was bold in 1704. He graduated at Cambridge, and after practising some years successfully at Uxbridge, settled in London, and became a fellow of the College of Physicians, as well as of the Royal Society. The insuf-London, and became a fellow of the College of Physicians, as well as of the Royal Society. The insufficiency of Bethlehem hespital to receive all the indigent objects labouring under insanity in this metropolis, naturally led to the establishment of another similar institution; and Dr. Battie having been very active in promoting the subscription for that purpose, he was appointed physician to the new institution, which was called \$1. Luke's Hospital, then situated on the north side of Moorfields. In 1757 he published a treatise on madness; and a few years after, having exposed before the House of Commons the abuses often committed in private mad-houses, they became the subject of legislative interference, and were at length placed under the control of the College of Physicians, and the magistrates in the country. He died at the

age of 72.

BAUHIN, John, was born at Lyons, in 1541. Being greatly attached to botany, he accompanied the celebrated Gesner in his travels through several countries of Europe, and collected abundant materials for his principal work, the "Historia Plantarum," which contributed greatly to the improvement of his favourite science. He was, at the age of 32, appointed physician to the duke of Wirtemberg, and died in 1613. A Treatise on Mineral Waters, and some other pub-

A Treatise on Mineral Waters, and some other publications by him also remain.

BAUHIN, GASPARD, was brother to the preceding, but younger by 20 years. Hegraduated at Basle, after studying at several universities, and was chosen Greek professor at the early age of 22; afterward professor of anatomy and botany; then of medicine, with other distinguished honours, which he retained till his death in 1624. Besides the plants collected by himself, he received material assistance from his pupils and friends, and was enabled to add considerably to the knowledge of botany; on which subject, as well as anatomy, he has left numerous publications. Among other anatomical improvements, he claims the discovery of the valve of the colon. His "Pinax" contains very of the valve of the coloil. In a "That" contains the names of six flowsmal plants mentioned by the ancients, tolerably well arranged; and being continually referred to by Linnæus, must long retain its value. BAULMONEY. See £bthrss.meum.

BAUME, ANTHONY, an apothecary, born at Senlis, 1728. He distinguished himself at an early age by in 1728. He distinguished himself at an early age by his skill in chemistry and pharmacy: and was afterward admitted a member of the Royal Academy of Sciences of Paris. He also gave lectures on chemistry for several years with great-credit. Among other works, he published "Elements of Pharmacy," and a "Manual of Chemistry," which met with considerable approbation; also a detailed account of the different kinds of soil, and the method of improving them for the murcogue of articulture. for the purposes of agriculture

BAXA'NA. (Indian.) Rabuxit. A poisonous tree growing near Ormuz

BAY A name of several articles; as bay-cherry, bay-leaf, bay-salt, &c.

Bay-cherry. See Prunus Lauro-cerasus.

Bay-leaves. See Laurus.

Bay-leaved Passion-Rower. See Passiflora lauri-

Bay-salt. A very pure salt, prepared from sea is evaporation [BAYLEY, Dr. RICHARD, a celebrated surgeon and practitioner in the city of New-York. Dr. Bayley was born at Fairfield, Connecticut, in the year 1745. His father was of English, and his mother of French, descent. After returning from London, where he studied anatomy under Dr. John Hunter, he commenced practice in connexion with Dr. Charleton of New-York, with whom he had. with whom he had previously studied. At that time the croup (cynanche trachealis) was confounded with the angina maligna, or putrid sore throat, and both treated with stimulants. Dr. Bayley was the first to point out the difference, and demonstrate that the croup was an inflammatory disease, and required a different treat-

"M the year 1782, he successfully removed the arm from its glenoid cavity by the operation at the shoulder joint; an operation at which Dr. Wright Post, then a student, assisted; and which, as far as it has been in our power to examine, is the first instance of its being practised in the United States." His surgical skill was often displayed in operations upon the eye. With Dr. Bard and others, he was one of the earliest promoters of the New York City Dispensary. In 1797, he published his work on yellow fever, in which he advocates the opinion of its local origin and noncontagiousness. He afterward, while health officer of the port of New-York, published a series of letters on the same subject, addressed to the New-York common council, or corporation of the city. He died in August, 1801, "leaving behind him a high character as a clinically instructed physician, an excellent and bold operator, a prompt practitioner, of rapid diagnosis, and unhesitating decision." —See Thech. Med. Biog. A.]

Brot'LLA. (From βδαλλω, to suck.) Bdellerum. " In the year 1782, he successfully removed the arm

A horse-leech.

BDE'LLIUM. (From bedallah, Arab.) Adrabolon;
Madeleon; Bolchon; Balchus. Called by the Arabians, Mokel. A gum resin, like very impure myrth. The best bdellium is of a yellowish brown, or darkbrown colour, according to its age; unctuous to the touch, brittle, but soon softening, and growing tough between the fingers; in some degree transparent, not unlike myrrh; of a bitterish taste, and a moderately, strong smell. It does not easily take flame, and, when set on fire goon goes out. In hurning it suputers a strong sinch. It does not easily take higher, it sputters a little, owing to its aqueous humidity. Its sp. grav. is 1.371. Alkohol dissolves about three-fifths of bdellium, leaving a mixture of gum and cerasin. Its constituents, according to Pelletier, are 59 resin, 9.2 gum, 30.6 cerasin, 1.2 volatile oil and loss. It is one of the weakest of the deobstruent gums. It was sometimes used as a pectoral and an emmenagogue. Applied externally, it is stimulant, and promotes suppuration. It is never met with in the shops of this country.

BEAK. See Rostrum.

BEAN. See Vicia faba.

Bean, French. See Phaseolus vulgaris.

Bean, Kidney. See Phaseolus vulgaris.

Bean, Malacca. See Avicennia tomentosa.

Bean, Januaca. See Articenta comencoya. .

Hean of Carthagena. See Bejuio.

Bean, St. Ignatius. See Ignatia amara.

BEAR. Ursa. The name of a well-known animal. Several things are designated after it, or a part of it.

f it.

Bear's berry. See Arbutus uva ursi.

Bear's bilberry. See Arbutus uva ursi.

Bear's breech. See Acanthus.

Bear's foot. See Helleborus fatidus.

Bear's whortleberry. See Arbutus uva ursi.

Bear's whortle Arbutus uva ursi.

BEARD. 1. The hair growing on the chin and ad-

jacent parts of the face, in adults of the male sex.

2. In botany. See Barba; Arista.

BE'CCA. A fine kind of resin from the turpentine and mastich trees of Greece and Syria, formerly held

in great repute.

BECCABU'NGA. (From bach bungen, water-herb.
German, because it grows in rivulets.) See Veronica

German, because it grows in rividion;
beccabunga.

Br'cua. See Bechica.

Bl'CHICA. (Bechicus; from βηξ, a cough.) Bechite. Medicines to relieve a cough. An obsolete term. The trochisci bechici albi consist of statch and liquorice, with a small proportion of Florentine orffs root made into lozzuges, with mucilage of gum tragacanth. They are a soft pleasant demulcent. The trochisci bechici mgri consist chiefly of the juice of liquidice, with super, and gum tragacanth. liquorice, with sugar and gum tragacanth.

BE'CHION. (From  $\beta \eta \xi$ , a cough; so called from its supposed virtues in relieving coughs.) See Tustago BECUI'RA NUX.

A large nut growing in Brazil, from which a balsam is drawn that is held in estimation in rheumatisms. BEDE'GUAR. (Arabian.)

Bedeguar. duus lacteus syriacus is so called, and also the Rosa

BEDENGIAN. The name of the love-apples in Avi-

BEDSTRAW. See Galium aparine.

BEE. See Apis mellifue.
BEECH: See Fagus.
BEER. The wine of grain made from malt and hops in the following manner. The grain is steeped hope in the following manner. In grain is steeped for two or three days in water, until it swells, becomes somewhat tender, and tinges the water of a bright red dish brown colour. The water being then drained away, the barley is spread about two feet thick upon a floor, where it heats spontaneously, and begins to grow, by first shooting out the radical. In this state the germination is stopped by spreading it thinner, and the germination is stopped by spreading it thinner, and turning it over for two days; after which it is again made into a heap, and suffered to become sensibly hot, which usually happens in little more than a day. Lastly, it is conveyed to the kiln, where, by a gradual and low heat, it is rendered dry and crisp. This is malt; and its qualities differ according as it is more or less soaked, drained, germinated, dried, and baked. In this, as in other manufactories, the intelligent operators often make a mystery of their progesses from views of profit; and others pretend to peculiar secrets who really possess none. who really possess none.

who really possess none.

Indian corn, and probably all large grain, requires to be suffered to grow into the blade, as well as root, before it is fit to be made into malt. For this purpose it is buried about two or three inches deep in the ground, and covered with loose earth; and in ten or twelve days it springs up. In this state it is taken up and washed, or fanned, to clear it from its dirt; and then dried in the kiln for use.

Barley being converted into malt becomes one.

Barley, by being converted into malt, becomes one-fifth lighter, or 20 per cent.; 12 of which are owing to kiln-drying, 1.5 are carried off by the steep-water, 3 dissipated on the floor, 3 loss in cleaning the roots, and 0.5 waste or loss

The degree of heat to which the malt is exposed in this process, gradually changes its colour from very pale to actual blackness, as it simply dries it, or con-

verts it to charcoal.

The colour of the malt not only affects the colour of The colour of the mait not only anects the colour of the liquor brewed from it; but, in consequence of the chemical operation, of the heat applied, on the principles that are developed in the grain during the process of malting, materially alters the quality of the beer, especially with regard to the properties of becoming fit for developing and growing fine.

especially with regard to the properties of becoming in for drinking and growing fine.

Beer is made from malt previously ground, or cut to pieces by a mill. This is placed in a tun, or tub with a false bottom; hot water is poured upon it, and the whole stirred about with a proper instrument. The temperature of the water in this operation, called mashing, must not be equal to boiling; for, in that case, the malt would be converted into a paste, from which the improprised water could not be separated. which the impregnated water could not be separated This is called setting. After the infusion has remained for some time upon the malt, it is drawn off, and is then distinguished by the name of Sweet Wort. By one or more subsequent infusions of water, a quantity of weaker wort is made, which is either added to the of weaker wort is inade, which is either added to the foregoing, or kept apart, according to the intention of the operator. The wort is then boiled with hope, which gives it an aromatic bitter taste, and is supposed to render it less liable to be spoiled in keeping; after which it is cooled in shallow vessels, and suffered to ferment, with the addition of a proper quantity of yest. The fermented liquor is beer; and differs greatly in its quality, according to the nature of the versit the mathing, the mashing, the mashing grain, the malting, the mashing, the quantity and kind of the hops and the yest, the purity or admixtures of the water made use of the temperature and vicissi-

tudes of the weather, &c.

Beside the various qualities of malt liquors of a similar kind, there are certain leading features by which they are distinguished, and classed under different names, and to produce which, different modes of

management must be pursued. The principal distinctions are into beer, property so called; ale; table, or small heer; and porter, which is commonly termed heer in London. Heer is a strong, tine, and thin liquor; the greater part of the immilage having been separated by boiling the wort longer than for ale, and carrying the fermentation farther, so as to convert the saccharine manter into alkohol. Ale is of a more sy sa charme matter into alkohol. Ale is of a moresy rupy consistence, and sweeter taske; more of the min-cilage being retained in it, and the fermentation not having been carried so far as to decompose all the sugar. Small beer, as its name implies, is a weaker hquor; and is made, other by adding a large portion of water to the malt, or by mashing with a fest quantity of water what is left after the beer or ale wort is drawn off. Porter was probably made originally from very high dried malt; but it its said, that its poen-liag flavour exhaucts in invested to weat the state.

from very night dried mail; but it it is said, that it is peculiar discource cannot be imparted by mail and hops alone.

Mr. Brande obtained the following quantities of alkohol from 100 parts of different species of beers.

Button ate, 8.88; Edinburgh ate, 6.2; Horchester ate, 5.56; the average being = 6.87. Brown stont, 6.8; London porter (average) 4.2; London small beer (average) 1.28.

As long ago as the reign of Queen Anne, brewers were forbid to mix sugar, honey, Guinea pepper, essentia bina, cocculus indicus, or any other unwholesome tia bina, cocculus indicus, or any other unwholesome ingredient, in beer, under a cettain penalty; from whitely we may infer, that such at least was the practice of some; and writers, who profess to discuss the secrets of the trade, mention most of these, and some other articles, as essentially necessary. The essential bina is sugar boiled down to a dark colour, and empy reumatic flavour. Broom tops, wormwood, and other bitter plants, were formerly used to render beer fit for keeping, before hops were introduced and this countries but a very severe prohibitor. try; but are now prohibited to be used in beer made for sale.

By the present law of this country, nothing is allow ed to enter into the composition of beer, except malt and hops. Quassia and wormwood are often fraudu lently introduced; both of which are easily discovera-ble by their nauseous bitter taste. They form a beer which does not preserve so well as hop beer. Sulphate which does not preserves ower as nop neer. Suppract of iron, alum, and salt, are often added by the publi-cans, under the name of beer heading, to impart a frothing property to beer, when it is poured out of one vessel into another. Molasses and extract of gentian vessef into another. Molasses and extract of gentian root are added with the same view. Capsicum, grains of paradise, ginger root, coriander seed, and orange peel, are also employed to give pungency and flavour to weak or bad heer. The following is a list of some of the unlawful substances seized at different brew-cries, and brewers' druggists' laboratories, in London, as copied from the minutes of the committee of the house of commons. Cocculus indicus multum, (an extract of the cocculus) colouring, honey, hartshorn extract of the coceaniss colouring, honey, harkshorn sharings, Spanish juice, orange powder, guiger, grains of paradise, quassia, himorice, caraway seeds, copference, caraway seeds, copferenced by the complex of the complex of the complex of the complex formacd, or make it hand, giving new beer instantly the taste of what is 18 months old. According to Mr. Accum, the present entire beer of the London brewer is composed of all the waste and spoiled beer of the publicans, the bot toms of buts, the leavings of the pots, the drippings of the machines for drawing the beer, the remnants of beer that lay in the leaden pipes of the brewery. a portion of brown stout, bottling beer, and mild beer. He says that opium, tobacco, nux vomica, and extract of poppies, have been likewise used to adulterate beer. By evaporating a portion of beer to dryness, and ignitny evaporating a portion of over 60 dryness, and igni-ting the residuum with chlorate of potassa, the iron of the copperas will be procured in an insoluble oxyde. Muriate of barytes will throw down an abundant precipitate from beer contaminated with sulphuric acid or copperas; which precipitate may be collected, dried, and ignited. It will be insoluble in uitric acid.

Beer appears to have been of ancient use, as Tacitus mentions it among the Germans, and has been usually mentions it among the commants, and use over oscillary supposed to have been peculiar to the northern nations; but the ancient Egyptians, whose country was not adapted to the culture of the grape, had also contrived this substitute for wine; and Mr. Park has found the art of making malt, and brewing from it. very good beer, among the negroes in the interior parts of Africa. See Wheat.

Bees' war. See Cera. BEET. See Beta.

Bret, red See Beta.

Bret, whote. A variety of red beet. The juice and powder of the root are said to be good to excite sneezing, and will bring away a considerable quantity of

BE 634A. (From βησσω, to cough.) A cough; also expectorated mucus, according to Hippocrates.
BE HEN. The Avabian for finger.
BEREN MARCH. (From below, a finger, Arabian.)

See Centaurea behon.

BEHEN OFFICIARM. See Cacubabas behen.
BEHEN OFFICIARM. See Statice Limanium.
BEHEL LAR. Bridellopar. A species of Ascleptas,
used in Africa as a remedy for fevers and the bites of

serpents. The caustic juice which issues from the roots when wounded, is used by the negroes to destroy venereal and similar swellings

BEDU 10. Habilla de Carthagena. Bean of Carthagena. A kind of bean in South America, famed for being an effectual antidote against the poison of all serpents, if a small quantity is eaten immediately. This bean is the peculiar product of the jurisdiction of Carthagen. of Carthagena.

BELA AYE. (An Indian word.) See Nerium anti-

agsentericum.

BELEMNOI'DES. (From βελεμνον, a dart, and ετόμς, form; so named from their dart like shape.) Belondes: Belondes: Beloides. The styloid process of the temporal hone, and the lower end of the ulna, were formerly so called.

(An Indian word.) Belilia. See Mus-BELE SON.

senda frondosa. BELL METAL BELL METAL. A mixture of tin and copper.
BELLADO'NNA. (From bella donna, Italian, a
handsome lady; so called because the ladies of Italy

use it, to take away the too florid colour of their faces Atropa belladonna.

se Atropa bettaumna. Вкільких: Sue Myrobabanus bellirica. Вкільких: ct. See Myrobalanus bellirica. Вкільких: See Myrobalanus bellirica. Вкільких: See Myrobalanus bellirica. Вкільтик: (From belles, a daisy, and ctôs).

BELLA'NI, LAURENCE, an ingenious physician, born at Florence in 1643. He was greatly attached to the mathematics, of which he was made professor at Pisa, when only twenty years of age. He was soon after appointed professor of anatomy, which office he filled appointed professor of anatomy, which office he filled with credit for nearly thirty years. He was one of the chief supporters of the mathematical theory of medicine, which attempted to explain the functions of the body, the causes of diseases, and the operations of medicines on mechanical principles: and having imprudently regulated his practice accordingly, he was generally unsuccessful, and lost the confidence of the public, as well assof Cosmo III. of Florence, who had appointed him his physician. In his anatomical researches he was more successful having first accordingly. appointed this me physician. At the deaconnect re-searches he was more successful, having first accu-rately described the nervous papille of the tongue, and discovered them to be the organ of taste; and also having made better known the structure of the kidney. He was author of several other publications, and died in 1704.

BETAIRS. (A bello colore, from its fair colour.)
The name of a genus of plants in the Linnaran system. Class, Syngenesia; Order, Polygamia superflua. The daisy

Ballis Major. See Chrysanthomam.
Bellis Minor. See Bellis perennis.
Bellis perennis. The systematic name of the common daisy. Bellis; Bellis minor; Bellis perennis—scape nude, of Linnaus, or bruisewort, was fortistic that in the appearances by this perennis. merly directed in the pharmacopeias by this name. Although the leaves and flowers are rather acrid, and are said to cure several species of wounds, they are never employed by modern surgeons.

never employed by honern strigging.

Bello'churus. (From bellus, fair, and oculus, the eye.) A precious stone, resembling the eye, and formerly supposed to be useful in its disorders.

Be'lloov. The Cohea pictonum.

BELLONA'RIA. (From Belloon, the goddess of

war.) An herb which, if eaten, makes people mad, and

war.) Affinetisment, it can be made properties and act outrageously, like the votaries of Bellona.

BELLOSTE, Augustris, a surgeon, born at Paris in 1654. After practising several years there, and as an army surgeon, he was invited to attend the mother

of the Queen of Sardmia, and continued at Turin till 1 rope, the Americans may prepare the oil of sesamum of the Check of Sardinia, and continued at the his death in 1730. He was inventor of a mercurial pill, called by his hance, by which he is said to have acquired a great fortune. The work by which he is principally known, is called the "Hospital Surgeon," which has a said to have a characteristic and we have a said the said of th which passed through numerous editions, and was translated into most of the European languages. Among other useful observations, he recommended piercing carious bones, to promote exfoliation, which indeed Celsus had advised before; and he blamed the custom of frequently changing the dressings of wounds, as retarding the cure.

BELML'SCHUS. A name of the Abelmoschus.

Hibseshus abelmoschus.

Be'lbileg. See Myrobalanus Bellirica.

Belo'ere. (Indian.) An evergreen plant of America, the seeds of which purge moderately, but the

BELONOI'DES. See Belemnoides.

4. (From βελος, a dart, and ελκω, to A surgeon's instrument for extracting BELU'LCUM. draw out.) A thorns, or darts.

BELZO'E. See Styrax benzoin.

Relegő B. Sec Myraz benedin. Belegő'num. Sec Styraz Benzoin. Bem-ta'mara. The taba Ægyptiaca. BEN. An Arabian word formerly very much used. See Guilandina moringa.
Ben magnum. Monardus calls a species of esula, or

garden spurge, by this name, which purges and vomits violently.

Henrich Tamara. The Egyptian bean.

BE NEDICT. Benedictus. A specific name prefaced to many compositions and herbs on account of
their supposed good qualities; as Benedicta herba,
Benedicta aqua, &c.

BENEDICTA AQUA. Many compound waters have been so called, especially lime water, and a water distilled from Serpytlum. In Schroeder, it is the name

BENEDICTA HERBA. See Geum urbanum.
BENEDICTA LAXATIVA. A compound of turbeth, scammony, and spurges, with some warm aromatics.

BENEDICTUM LAXATIVUM. Rhubarb, and sometimes the lenitive electuary.

BENEDICTUM LIGHUM. Guaiacum.
Benedictum vinum. Antimonial wine.
BENEDICTUS. (From benedicg, to bless.) See Benedict.

Benedictus carduus. See Contaurea benedicta.
Benedictus lapis. A name for the philosopher's

BENEOLE'NTIA. (From benc, well, and olco, to smell.) Sweet scented medicines.

BENG. A name given by the Mahomedans to the leaves of hempy formed into pills, or conserve. possess exhilarating and intoxicating powers.

Bengal quence. See Erateva marmelos.

BENGA'LE RADIX. (From Bengal, its native place.)

See Cassamuniar. Benga'ble Indorum. (From Bengal, its native RESIX LIE. INDUSTRIAL

[Place]. See Classamanier.

Be'sel Eire. A species of evergreen. Indian ricians, which grows in Malabar.

BENTY. See Geam urbanum.

BENTY ARBOR. See Nyrax benzoin.

HEATH SECTION ACCORDANCE.

HENTYI ARROR SEC SUpras beazoin.

HENJAMIN. Sec Supras beazoin.

HENJAMIN. Sec Supras beazoin.

HENJAMIN. Sec Supras beazoin.

HENJAMIN SEED. Among the negroes, in Georgia, a plant is cultivated which appears to be a species of a species sesamum. They call it benne, which is probably its African name. The seeds are of a brownish white, African name. and about the size of flaxseed, abounding in oil.

Several barrels of benne seeds were shipped by John Milledge, from Savannah to New York, in 1807, consigned to Col. Few. By direction of this latter gentleman, they were pressed, and have been found to yield have been found to yield three gallons, at least, to a bushel. The benne plant is an annual, and may hereafter become benile plant is an annual, and may hereafter become of some importance to this country. One difficulty in its cultivation, since ascertained, arises from the faci-lity with which the plant sheds its seeds before the whole are mature.—See Med. Repos. Vol. ii. A.] [BENNE OIL. This vegetable oil is clear, mild, and well-fluvoured, and excellent for salads. Its qualities are so good and wholesome that it may be employed in hea, of the ant of clives, both in medicine and dec-

in hen of the oil of olives, both in medicine and diet. Instead of importing this article from the south of Eu

from their own fields. from their own fields. The grams are of a tender structure, and may be crushed under the serew without structure, and may be crushed under the screw without previous grinding. In addition to all which circumstances it may be added, that the oil separates freely by coid expression; and it may hence be hoped that our tables will, in process of time, be farmished with plentiful supplies of this sweet and nutratious substance.—See Mod. Repos. vol. ii, p. 88.

The sexamum arientale is cultivated in Asia, Africa, and the West Indies, principally on agreement of its oil.

and the West Indies, principally on account of its oil. Its seeds were used by the accient Egyptians for food, and are still employed by the negroes and Asiatics for this purpose. The plant is now cultivated in the southern parts of the United States. The seeds afford a copious quantity of oil, amounting, according to some authors, to nearly one half of their weight. This oil is bland, sweet, and is said to keep some years without turning rancid. It is applicable to the same without turning rated. It is applicable to the same purposes as olive oil, and in sufficient doses proves purgative on the same principle as other animal and vegetable fixed oils."—See Big. Mat. Med. A.]
BENZO'AS. Abenzoate. A salt formed by the union of benzoic acid with salifiable bases; as benzo-

ate of alumine, &c.

BENZO'E. See Styrax benzoin

BENZOES AMYGDALOIDES. See Styrax benzoin.
BENZOES FLORES. See Benzoic acid.
BENZOIC ACID. See Acidum benzoicum. acid was first described in 1608, by Blaise de Vigenere, active was first described in 100s, by fluinse de vigenère, in his freatise on Fire and Salt, and has been generally known since by the name of flowers of benjamin or benzoin, because it was obtained by sublimation from the resh of this name. As it is still most commonly procured from this substance, it has preserved the suither to be nearly thought here. the epithet of benzoic, though known to be a peculiar acid, obtainable not from benzoin alone, but from different vegetable balasams, veneflo, cinnamon, ambergris, the urine of children, frequently that of adults, and always, according to Fourcroy and Vanquelin, though Giese denies this, from that of quadrupeds living on grass and hay, particularly the camel, the horse, and the cow. There is reason to conjecture that many vegetables, and among them some of the grasses, contain it, and that it passes from them into the urine. Fourcroy and Vanquelin found it combined with potsess and line in the linger of damphills, as well as in the epithet of benzoic, though known to be a tassa and lime in the liquor of dunghills, as well as in the urine of the quadrupeds above-mentioned; and they strongly suspect it to exist in the Anthoxanthum they strongly suspect it to exist in the stringstantium advantam, or sweet scented vernal-grass, from which hay principally derives its fragrant smell. Grese, however, could find home either in this grass or in our

The usual method of obtaining it affords a very ele gant and pleasing example of the chemical process of dered benzoin is spread over the bottom of a glazed earthen pot, to which a tall conical paper covering is fitted: gentle heat is then to be applied to the bottom of the pot, which fuses the benzoin, and fills the apart-ment with a fragrant smell, arising from a portion of essential oil and neido benzoin, which are dissipated into the air, at the same time the acid itself rises very suddenly in the paper head, which may be occasionally inspected at the top, though with some futle care, because the fumes will excite coughing. This saline sublimate is condensed in the form of long needles, or straight filaments of a white colour, crossing each other in all directions. When the acid ceases to rise, the cover may be changed, a new one applied, and the heat raised: more flowers of a yellowish co-lour will then rise, which will require a second sublimation to deprive them of the empyreumatic oil they contain.

The sublimation of the acid of benzoin may be conveniently performed by substituting an inverted earthen pan instead of the paper cone. In this case the two pans should be made to fit, by grinding ones stone with sand, and they must be luted together with paper dipped in paste. This method seems preferable to the other, where the presence of the operator is required elsewhere; but the paper head can be more easily in-spected and changed. The heat applied must be gentle, and the vessels ought not to be separated till they have become cool.

The quantity of acid obtained in these methods differs according to the management, and probably also from difference of purity, and in other respects, of

BEN

the resin itself. It usually amounts to no more than about one-eighth part of the whole weight. Indeed Scheele says, not more than a tenth or twelfth. The whole acid of benzoin is obtained with greater cer tainty in the humid process of Scheele: this consists in boiling the powdered balsam with lime water, and afterward separating the lime by the addition of muriatic acid. Twelve ounces of water are to be poured upon four ounces of slaked lime; and, after the ebulliagon four ounces of saked time; and, after the control is over, eight pounds, or ninety-six ounces, more of water are to be added; a pound of finely-powdered benzoin being then put into a tin vessel, six ounces of the lime water are to be added, and mixed well with the powder; and afterward the rest of the lime water in the same gradual manner, because the benzoin would coagulate into a mass, if the whole were added at once. This mixture must be gently boiled for half an hour with constant agitation, and afterward suffered to cool and subside during an hour. The super-natant liquor must be decanted, and the residuum boiled with eight pounds more of time water; after which the same process is to be once more repeated: the remaining powder must be edulcorated on the filter by affusions of hot water. Lastly, all the decoctions, being mixed together, must be evaporated to two pounds, and strained into a glass vessel. This fluid consists of the acid of benzoin combined with lime. After it is become cold, a quantity of nurriatic acid must be added, with constant stirring, until the fluid tastes a little sourish. Duirng this time the lastfluid tastes a little sourish. Duiring this time the last-mentioned acid unites with the lime, and forms a so-luble salt, which remains suspended, while the less soluble acid of benzoin being disengaged, falls to the bottom in powder. By repeated affusions of cold water upon the filter, it may be deprived of the muriate of lime and muriatic acid with which it may happen to be mixed. If it be required to have a shining appearance, it may be dissolved in a small quantity of builting water from which it will sengage in silky boiling water, from which it will separate in silky filaments by cooling. By this process the benzoic acid may be procured from other substances, in which it

exists.

Mr. Hatchell has shown, that, by digesting benzoin in hot sulphuric acid, very beautiful crystals are sublimed. This is perhaps the best process for extracting the acid. If we concentrate the urine of horses or cows, and pour muristic acid into it, a coptume precipitate of benzoic acid takes place. This is ous precipitate of benzoic acid takes place. the cheapest source of it."—Ure's Chem. Dict

As an economical mode of obtaining this acid, Fourcroy recommends the extraction of it from the water that drains from dunghills, cowhouses, and stables, by means of the muriatic acid, which decomposes the benzoate of lime contained in them, and separates the benzoic acid, as in Scheele's process. He confesses the smell of the acid thus obtained differs a little from that of the acid extracted from benzoin; but this, he says, may be remedied, by dissolving the acid in boiling water, filtering the solution, letting it cool, and thus suffering the acid to crystallize, and repeating this operation a second time.

The acid of benzoin is so inflammable, that it burns with a clear yellow flame without the assistance of a wick. The sublimed flowers in their purest state, as white as ordinary writing paper, were fused into a clear transparent yellowish fluid, at the two hundred-and thirtieth degree of Fahrenheit's thermometer, and at the same time began to rise in sublimation. probable that a heat somewhat greater than this may be required to separate it from the resin. It is strongly disposed to take the crystalline form in cooling. The concentrated sulphuric and nitric acids dissolve this concentrated supportre and mente acus obsoive the concrete acid, and it is again reparated without alteration, by adding water. Other acids dissolve it by the assistance of heat, from which it separates by cooling, unchanged. It is pleutifully soluble in ardent spirit, from which it may likewise be separated by diluting the acid with the acid of the acid water. the spirit with water. It readily dissolves in oils, and in melled tallow. If it be added in a small proportion to this last fluid, part of the tallow congeals before the rest, in the form of white opaque clouds. If the quantity of acid be more considerable, it separates in part by cooling, in the form of needles or feathers. It did not communicate any considerable degree of hardness to the tallow, which was the object of this experiment. When the tallow was heated nearly to ebullition, it emitted fumes which affected the respiration, like those of gumbenjamin.

of the acid of benzoin, but did not possess the peculiar and agreeable smell of that substance, being probably the sebacic acid. A stratum of this tallow, about onethe selacit acid. A stratum of this tanew, about one-twentieth of an inch thick, was fused upon a plate of brass, together with other fat substances, with a view to determine its relative disposition to acquire and retim the solid state. After a liad cooled, it was left upon the plate, and, in the course of some weeks, it gradually became tinged throughout of a bluish green colour. If this circumstance be not supposed to have arisen from a solution of the copper during the fusion, it seems a remarkable instance of the mutual action of two bodies in the solid state, contrary to that axiom of chemistry which affirms, that bodies do not act on each

two bodies in the solid state, contrary to that axiom of chemistry which affirms, that bodies do not act on each other, unless one or more of them be in the fluid state. Tallow itself, however, has the same effect.

Pure benzoic acid is in the form of a light powder, evidently crystallized in fine needles, the figure of which is difficult to be determined from their smallness. It has a white and shining appearance; but when contaminated by a portion of volatile oil, is yellow or brownish. It is not brittle, as might be expected from its appearance, but has rather a kind of ductility and elasticity, and, on rubbing in a mortar, becomes a sort of paste. It taste is acrid, hot, acidulous, and bitter. It reddens the infusion of litmus, but not strong unless heated. This, however, appears not to belong to the acid; for Mr. Giese informs us, that on dissolving the beuzoic acid in as little alkohol as possible, filtering the solution, and precipitating by water, the acid will be obtained pure, and void of smell, the odorous oil remaining dissolved in the spirit. Its specific gravity is 0.657. It is not perceptibly aftered by the air, and has been kept in an open vessel twenty years without losing any of its weight. None of the combustible substances have any effect on it; but it may be refined by mixing it with charcoal powder and sublining heing thus readered much, whiter and may be refined by mixing it with charcoal powder and subliming, being thus rendered much whiter and better crystallized. It is not very soluble in water. Werzel and Lichtenstein say four hundred parts of cold water dissolve but one, though the same quantity of boiling water dissolves twenty parts, nineteen of which separate on cooling.

The benzoic acid unites without much difficulty with the earthy and alkaline bases. These compounds are called benzoutes.

The benzoate of barytes is soluble, crystallizes tole-rably well, is not affected by exposure to the air, but is decomposable by fire, and by the stronger acids. That of lime is very soluble in water, though much less in cold than in hot, and crystallizes on cooling. It is in like manner decomposable by the acids and by barytes. The bearoute of magnesia is soluble, crystallizable, a little deliquescent, and more decomposable than the former. That of alumina is very soluble, crystallizes in dendrites, is deliquescent, has an acceb and bitter in dendrities, is deliquescent, has an acerb and bitter taste, and is decomposable by fire, and even by most of the vegetable acids. The benzoate of potassa crystal lizes on cooling in little compacted needles. All the acids decompose it, and the solution of barytis and lime form with it a precipitate. The benzoate of sada is very crystallizable, very soluble, and not deliquescent like that of potassa, but it is decomposable by the same means. It is sometimes found native in the urine of means. It is sometimes found flatve in the titine of graminivorous quadrupeds, but by no means so abundantly as that of lime. The benzoate of ammonia is votatile, and decomposable by all the acids and all the bases. The solutions of all the benzoates, when drying on the sides of a vessel wetted with them, form dendritical crystallizations.

Trommsdorf found in his experiments, that benzoic

Tronmsdorf found in his experiments, that benzoic acid united readily with metallic oxydex.

The benzoates are all decomposable by heat, which, when it is slowly applied, first separates a portion of the acid in a vapour, that condenses in crystals. The soluble benzoates are decomposed by the powerful acids, which separate their acid in a crystalline form.

The benzoic acid is occasionally used in medicine, but not so mugit as formerly, and cates; into the con-

but not so much as formerly; and enters into the com-position of the camphorated tineture of opium of the London college, heretofore called paregoric elixir RENZOFFERA. See Styrax benzuen.

BENZOI'NUM. (From the Atabic term benzoah.) See Styrax benzoin.

BENZOINI MAGISTERIUM. Magistery, or precipitate

BERBERIA. (Origin uncertain.) Berberi. The name of a species of disease in the genus Synclonus of Good's Nosology See Bereberra. BE RBERIS. (Berbere, wild Arab. used by Aver-

The name of a genus of piants in the Linnsan cystem. Class, Hexandria; Order, Monogynia. The barbery, or pepperidge bush.

The pharmacopulal name for the barberry. Sec Berberis valgaris.

BERBERIS GELATINA: Barberry jelly. Barberries boiled in sugar.

BERBERIS VULGARIS. The systematic name for the Berberis Villaris. The systematic name for the Darberry of the pharmacopeias. Ozycantha Galeni; Spina acida; Crespinus. This tree, Serberis; peduculis racemosis, spinus triplicibus, of Linneus, is a native of England. The fruit, or berries, which are gratefully acid, and moderately astringent, are said to be of great use in biliary fluxes, and in all cases where heat, acrimony, and putuidity of the humours prevail. The filaments of this shrub possess a remarkable de-

The filaments of this shrub possess a remarkable degree of irritability; for on being touched near the base with the point of a pin, a sudden contraction is produced, which may be repeated several times.

BERENDA' RIUS, JAMES, born about the end of the 15th century at Carpi, in Modena, whence he is often called Carpus. He was one of the restorers of acatomy, of which he was professor, first at Fadua, afterward at Belegna, which he was in a few years obliged to quit, being accused of having opened the bodies of two Spaniards alive. By his numerous dissections, be corrected having reviews excess concerning. bounes of two spanning and the year of the human body, and paved the way for his successor Vessius. He was among the first to use mercurial frictions in syphilis, whereby he acquired a large fortune, which he left to the Duke of Ferrara, into whose territory he retired, at his death in 1527. His principal works are an enlarged Commentary on Mundinus, and a Treatise on Feacture of the Cranium.

BERENI SECUM. See Artemises integers.
REMENI'CE. (The city from whence it was formerly

Definition whether twest others brought.) Amber.

Beressi crem. (From φερω, to bring, and νικη victory.) A term applied by the old Greek writers to nitre, from its supposed power in healing wounds.

BERGAMO'TE. A species of citron. See Citrus

6ERGMANITE. A massive mineral of a greenish, gray ish white, or reddish colour, which fuses into a transparent glass, or a semitransparent enamel. It is found in Frederickswam, in Norway, in quartz and in

This mineral has not yet been satisfactorily analyzed. Its masses are composed of fibres, or little needles, confusedly grouped, and often so closely applied to each other, that the texture becomes nearly plied to each other, that the texture becomes nearly compact. Some of the needles have a foliated shining fracture. Its colour is a deep gay. Its strap fragments scratch glass, and even quartz in a shant degree. Its spec, grav. is 2.30. When moistened by the breath, it yields an appliaceous odour. A fragment exposed to the flame of a camile, or placed on a hot coal, becomes white and friable. It melts by the blow-pipe into a white translucent glass—See Clow. Mrn. A.] BERIBETRI. (An Hindostan word signifying a sheep.) Beriberia. A species of palsy, common in some parts of the East Indies, according to Bontius. In this disease, the patients life up their legs very much in the same manuter as is usual with sheep. Bontius adds, that this palsy is a kind of trembling, in which there is deprivation of the motion and sensation of the hands and feed, and sometimes of the body.

there is deprivation of the motion and sensation of the hands and feet, and sometimes of the body.

BERK ENHIOUT, JOHN, born at Leeds, about the year 1730. His medical studies were commenced late in life, having graduated at Leyden only in 1765; nor did lie long continue the practice of medicine. His "Pharmacopeaia Medica," however, was very much approved, and has since passed through many editions; his other medical publications are of little importance. He died in 1791.

Revenuedas berry. See Sapindus saponaria.

BERRY See Bacca.

BERRY Formerly the name of an exhilarating

BERRY. See Bacca. Bers. Formerly the name of an exhitarating

BERULA. An old name for brooklime BERULA GALLICA. Upright water parsnip.

BERYL. Aqua marme. A precious minerat, harder than the emerald, of a green, or greenish-yellow colour, found in Siberia, France, Saxony, Brasil, Scotland, and Ireland.

Bassa NEN. (An Arabian word.) A redness of the external parts, resembling that which precedes the leprosy; it occupies the face and extremities.—Avi-

BE'STO. A name in Oribasius for a species of savifrage

Sauteage.

BE'TA (So called from the river Batis, in Spain, where it grows naturally; or, according to Blanchard, from the Greek tetter force, which it is said to resemble when turgid with seed.) The beet.

1. The name of a genus of plants in the Linneau system. Class, Pontandria; Order, Digynia. The

beet.
2. The pharmacopoial name of the common beet.

See Beta raiguris.

Deva hybrida. The plant which affords the root DESTA RESIDEA. The plant which affords the root of searcity. Minagle united of the Germans; a large root. It contains much of the saccharine principle, and is very nourishing. Applied externally it is useful in cleaning foul ulcers; and is a better application than the carrot.

The systematic name for the BETA VULGARIS. BETA VLIGARIS. The systematic name for the beet of the pharmacopenias. Beta —forbise compests of Limsons. The root of this plant is frequently eaten by the French; it may be considered as mutritions and assistential, and forms a very elegant pickle with vinegar. The root and leaves, atthough formerly employed as laxatives and emollients, are now A considerable quantity of sugar may be obtained from the root of the beet. It is likewise said, that if beet roots be dried in the same manner as malt, that if beet roots be dried in the same manner as malt, after the greater part of their jince is pressed out very good beer may be made from them. It is occasionally

geom oger may be made from them. It is occasionally used to improve the colour of claret.

Britis. B. Bethle; Bethle; Bitelle. An oriental plant, nike the tail of a lizard. It is chewed by the In-An oriental dians, and makes the teeth black; is cordial and exhi-iarating, and in very general use throughout the east.

It is supposed to be the long pepper.

BITO'NICA. (Corrupted from Vettonica, which is derived from the Vectones, an ancient people of

Spain.) Betony.

1. The name of a genus of plants in the Linnaran system. Class, Didynamia; Order, Gymnospermia.

2. The pharmacopæial name of the wood betony,

See Betonica officinalis.

BETONICA AQUATICA. See Scrophularia aquatica. BETONICA AQUATICA. See Scrophularia aquatica, BETONICA OFFICINAIS. The systematic name of the betony of the pharmacopoias. Betonica purpurea; fictionica vulgaris; Cestrum; Vetonica corrigi Betonica—spica interrupta, borollarum labii lacinia intermedio conarginata of Linneus. The leaves and tops of this plant lave an agreeable, but weak smell; and to the taste they discover a slight warmth, accompanied with some degree of adstringency and bitterness. nied with some degree of activities and interness. The powder of the leaves of betony, stuffed up the nose, provokes sneezing; and hence it is sometimes made an ingredient in sternutatory powders. Its leaves are sometimes smoked like tobacce. The roots differ greatly, in their quality, from the other parts; their taste is very bitter and nauseous; taken in a small dose, they vomit and purge violently, and are supposed to have somewhat in common with the roots of hellebore. Like many other plants, formerly in supposed to have somewhat in common with the roots of hellebore. Like many other plants, formerly in high medical estimation, betony is now almost entirely neglected. Antonius Musa, physician to the emperor Augustus, filled a whole volume with enumerating its virtues, stating it as a remedy for no less than forty-seven disorders; and hence in Italy the proverbial compliment, You have more virtues than betony.

BETONICA PULLA ASPECIES O'VERAILS. See Betonica officinalis.

BETONICA VULGARIS. See Betonica officinalis.
BETONY. See Retonica.

BETTORY. Bee Retonica.

Betony, water. See Scrophularia aquatica
BETT'LA. 1. The name of a genus of plants in the
Linneau system. Class, Monacia; Order, Tetrandria, Alder and birch.
2. The pharmacopeial name of the white birch.
See Beinla alba.

See Britta aba.

BRITTA ALBA. The systematic name of the betulg
of the pharmacopulas. Betula:—foliis ovatis, acuor nates, surates, of Linneus. The juice, leaves, and

bark have been employed medicinally. If the tree be | proofs of genuine bezoar, and which a vegetable juice bark nave been employed medicinally. If the nee be bored early in the spring, there issues, by degrees, a large quantity of limpid, watery, sweetish juice; it is said that one tree will afford from one to two gallons a day. This juice is esteemed as an antiscorbutic, deobstruent, and diuretic. When well fermented, and having a proper addition of raisins in its composition, it is frequently a rich and strong liquor; it keeps better than many of the other made-wines, often for a numthan many of me other made-wines, often for a humber of years, and was formerly supposed to possess many medical virtues; but these experience does not seem to sanction; and the virtues of the alder, like those of many other simples formely prized, have sunk into oblivion. The leaves and bark were used externally as resolvents, detergents, and antiseptics.

Exercised as resolvents, detergents, and antisepties. Bettle alnus of the pharmacoperias. The common alder. Bex. (From  $\beta_{\eta\sigma\sigma\omega}$ , to cough.) A cough. Dr. Good in his Nosology, has applied this term to a genus of diseases, which embraces three species, bex humida, sicca, convulsiva.

BEXAGU'LLO. A name given to the white ipecacu-tabla, which the Spaniards bring from Peru, as the Portuguese do the brown from Brazil. BEXU'GO. The root of the Ematitis peruviana of

Caspar Bauhin; one drachm of which is sufficient for

BEZAHAN. The fossile bezoar.
BEZETTA CCRULEA. See Croton tinctorium
BEZOAR. (From pa-zahar, Persian, a destroyer of poison.) Lapis beconviicus. Bezoard. A preternatural or morbid concretion formed in the bodies ternatural or moral concretion formed in the bodies of land-animals. Several of these kinds of substances were formerly celebrated for their medicinal virtues, and distinguished by the names of the countries from whence they came, or the animal in which they were found. There are eight kinds, according to Fourcroy, Yauquelin, and Berthollet.

1. Superphosphate of lime, which forms concretions in the intestines of many mammalia.

2. Phosphate of magnesia, semitransparent and yel-

lowish, and of sp. grav. 2.160.

3. Phosphate of ammonia and magnesia. 3. Phosphate of ammonia and magnesia. A concretion of a gray or brown colour, composed of radiations from a centre. It is found in the intestines of herbiverous animals, the elephant, horse, &c.

4. Biliary, colour reddish-brown, found frequently in the intestines and gall-bladder of oxen, and used by panners for an orange-yellow nigment. It is inserted.

sated bile.

The oriental bezoars, procured from 5. Resinous. The othernal becomes present unknown animals, belong to this class of concretions. They consist of concentric layers, are fusible, combustible, emooth, soft, and finely polished. They are 5. Resinous. composed of bile and resin.
6. Fungous, consisting of pieces of the Bolctus igni-

arius, swallowed by the animal.
7. Hairy.
8. Ligniform. Three bezoars sent to Bonaparte by the king of Persia, were found by Berthollet to be nothing but woody fibre agglomerated.

Bezoars were formerly considered as very powerful Bezoars were tormerly considered as very powerful alexipharmics, so much so, indeed, that other medicines, possessed, or supposed to be possessed, of alexipharmic powers, were called bezoardies; and so efficacious were they once thought, that they were bought for ten times their weight in gold. These virtues, however, are in the present day justly denjed them, as they produce no other effects than those common to the saline particles which they contain, and which may the saline particles which they contain, and which may be given to greater advantage from other sources. composition of bezoar with absorbent powders, has been much in repute, as a popular remedy for disorbeen much in repute, as a popular remedy for disorders in children, by the name of Gascoigne's powder and Gascoigne's ball; but the real bezoar was rarely, if ever, used for these, its price offering such a temptation to counterfeit it. Some have employed for this purpose, a resinous composition, capable of melting in the fire, and soluble in alkohol; but Newmann supposed that those nearest resembling it, were made of gypsum, chalk, or some other earth, to which the proper colour was imparted by some vegetable juice We understand, however, that tobacco-pipe clay tinged with ox-gail, is commonly employed, at least would not effect.

BEZOAR BOVINUM. Bezoar of the ox.

BEZOAR GERMANICUM. The bezoar from the alpine

BEZOAR HYSTRICIS. Lapis porcinus; Lapis ma-lucensis; Petro del porco. The bezoar of the Indian porcupine; said to be found in the gall-bladder of an Indian porcupine, particularly in the province of Ma-lacea. This concrete differs from others: it has an intensely bitter taste; and on being steeped in water, for a very little time, impregnates the fluid with its for a very fitte time, impregnates me mind win in bitterness, and with aperient, stomachic, and, as it is supposed, with alexipharmic virtues. How far it differs in virtue from the similar concretions found in the gall-bladder of the ox, and other animals, does not

appear.
BEZOAR MICROCOSMICUM. The calculus found in

the human bladder.

BEZOAR OCCIDENTALE. Occidental bezoar. This concretion is said to be found in the stomach of an animal of the stag or goat kind, a native of Peru, &c. It is of a larger size than the oriental bezoar, and some-

is of a larger size than the oriental bezoar, and sometimes as large as a hen's egg; its surface is rough, and
the colour green, grayish, or brown.

BEZOAR ORIENTALE. Lapis bezoar orientalis.
Oriental bezoar stone. This concretion is said to be
found in the pylorus, or fourth stomach of an animal
of the goat kind, which inhabits the mountains of
Persia. It is generally about the size of a kidney
bean, of a roundish or oblong figure, smooth, and of a
shining align or dark greenish colour.

shining olive or dark greenish colour.

BEZOAR PORCINUM. See Bezoar hystricis.
BEZOAR SIMIÆ. The bezoar from the monkcy.

BEZOARDICA RADIX. See Dorstenia.
BEZOARDICUM JOVIALE. Bezoar with tin.
fered very little from the Antihecticum Poterii. BEZOARDICUM LUNALE. A preparation of antimony

and silver. BEZOARDICUM MARTIALE. A preparation of iron

and antimony. BEZOARDICUM MINERALE. A preparation of anti-mony, made by adding nitrous acid to butter of anti-

BEZOARDICUM SATURNI. A preparation of antimony and lead.

BEZO'ARDICUS LAPIS. See Bezoar.
BEZOARDICUS PULVIS. The powder of the oriental

BEZOARTICUM MINERALE. A calx of antimony.
BI. (From bis, twice.) In composition signifies twice or double, and is frequently attached to other words in anatomy, chemistry, and botany; as biceps, having two heads; bicaspides, two points, or rangs; bilocular, with two cells; bicalve, with two valves, &c.

Bixon. Wine made from sun-raisins, fermented

in sca water.

BIBINE LLA. See Pimpinella.
BIBITO'RIUS. (Bibitorius, from bibo, to drink, because by drawing the eye inwards towards the nose, it causes those who drink to look into the cup.) See Rectus internus

Rectus internus coult.

BIBULUS. Bibulous; attracting moisture; charta
bibula, blotting paper.

BICAPSULARIS. Having two capsules. Pericarpium bicapsulare. See Capsula.

BICEPS. (From bis, twice, and caput, a head.)

Two heads. Applied to muscles from their having two distinct origins or heads.

two distinct origins or heads.

BICEPS BRACHII. See Biceps flexor cruris.
BICEPS CRURIS. See Biceps flexor cruris.
BICEPS CRURIS. See Biceps flexor cruris.
BICEPS EXTERNUS. See Tricops extensor cubiti.
BICEPS EXTERNUS. See Tricops extensor cubiti.
BICEPS FLEXOR CRURIS. Biceps cruris of Albinus.
Biceps of Winslow, Douglas, and Cowper; and Ischic-femoroperonist of Dumas. A muscle of the leg, situ ated on the hind part of the thigh. It arises in common with the semitendinosus, from the upper and posterior part of the tuberosity of the os ischium. The second, called brons arises from the linea aspera, a little below the termination of the gluteus maximus. a little below the termination of the glutaus maximus, by a fleshy acute beginning, which soon grows broader, as it descends to join with the first head, a little above for the Gascoigne's powder; this giving a yellow tint the external condyle of the os femoris. It is inserted, to paper, rubbed with chalk, and a green to paper rubbed over with quick-lime; which are considered as the fibula. Its use is to bend the leg. This muscle 130

forms what is called the outer hamstring; and, between a it and the inner, the nervous popliteus, arteria and vena poplitea, are situated.

vena poplitea, are situated.

Biceps Ilexor cubit. Biceps brachi of Albinus.
Coraco-radialus, seu breeps of Winslow. Biceps internus of Douglas. Biceps internus humeri of Cowper. Scapula cornecataid of Dumas. A muscle of the forearm, situated on the forepart of the os humeri. It arises by two heads. The first and outermost, called longus, begins tendinous from the upper edge of the glenoid cavity of the scapula, passes over the head of the os humeri within the joint, and in its descent without the joint, is enclosed in a groove near the head of the os humeri, by a membraneous ligament that proceeds from the capsular ligament and adjacent tendons. The second, or innermost head, called brevis, arises, tendinous and fleshy, from the coraccid process of the scapula, in common with the coraccid process of the scapula, in common with the coracoid process of the scapula, in common with the coracobrachialis muscle. A little below the middle of the forepart of the os humeri, these heads unite. It is inserted by a strong roundish tendon into the tubercle on the upper end of the radius internally. Its use is to turn the hand supine, and to bend the forearm. At the bending of the elbow, where it begins to grow tendinous, it sends off an aponeurosis, which covers all the muscles on the inside of the forearm, and joins with another tendinous membrane, which is sent off from the trieses extracers uniting and some sent off from the trieses extracers. from the triceps extensor cubiti, and covers all the muscles on the outside of the forearm, and a number of the fibres, from opposite sides, decussate each other. It serves to strengthen the muscles, by keeping them from swelling too much outwardly when in action, and a number of their fleshy fibres take their origin from it.

BIGEPS INTERNUS. See Biceps flexor cubiti.

BICHICHIE. An epithet of certain pectorals, or rather troches, described by Rhazes, which were made

of liquorice, &c

of liquorice, &c.
Br'caus. A Portuguese name for the worms that
get under the toe of the people in the Indies, which
are destroyed by the oil of cashew nut.
Brci. The Indian name of an intoxicating liquor,
made from Turkey wheat in South America. See

made from Turkey.

BICORNIS. (From bis, twice, and cornu, a horn.)

1. An epithet sometimes applied to the os hyoides, which has two processes, or horns.

2. In former times, to muscles that had two termi-

nations.

3. A name given to those plants, the antheræ of which have the appearance of two horns.

BICORNES FLANTÆ. The name of an order of plants in the natural method of Linneus and Gerard.

BICUSPIDATUS. Having two points. See Bi-

cuspis.

BICU'SPIS. (From bis, twice, and cuspis, a spear.)

1. The name of those teeth which have double points, or fangs. See Teeth.

2. Applied to leaves which terminate by two points:

Applied to leaves when terminate by two points; folia bicuspida, or bicuspidate.

BFDENS. (From bis, twice, and dens, a tooth; so called from its being deeply serrated, or indented.)

The name of a genus of plants in the Linnæan system.

Class, Syngenesia; Order, Polygamin aqualis.

BIDENS TRIPARTITA. The systematic name of the hemp agrimony, formerly used as a bitter and aperient,

hemp agrimony, formerly used as a bitter and aperient, but not in the practice of the present day.

BIDLOO, Godderke, a celebrated anatomist, born at Amsterdam, in 1649. After practising several years as a surgeon, he was appointed physician to William III., and in 1694, made professor of anatomy and surgery at Leyden. He published 105 very splendid, though rather inaccurate anatomical tables, with explanations; and several minor works. His nephew, Nicholas, was physician to the Czar Peter I.

BIENNIS. Biennial. A biennial plant is one, as the term imports, of two year's duration. Of this tribe there are numerous plants, which being raised one year from the seed, generally attain perfection the same year, or within about twelve months, shooting up stalks, producing flowers, and perfecting seeds in the following spring or summer, and soon after commonly perish.

Birthering spring of common years.

Bireaniam. In two parts.

BirFER. (From bis, twice, and fera, to bear.) A plant is so called, which bears twice in the year, in spring and autumn, as is common between the tropics.

BIFIDUS. Forked. Divided into two; as a bifid seed-vessel in Adora moschatellina, petala bifida in the Silene nocturna and Alyssum incanum.

BIFLORUS. Bearing two flowers; as pedunculus

BIFORIUM. Applied to a leaf which points two

BIFORUS. (From bis, twice, and forus, a door.) Two-doored, or bivalved. A class of plants is so denominated in some natural arrangements, constituted by those which have a pericarp, or seed-vessel, fur-

by those which have a pericarp, or seed-vessel, fur-nished with two valves. BIFURCATE. (Bifurcus; from bis, twice, and frace, a fork.) A vessel, or nerve, stem, root, &c. is said to bifurcate when it divides into two branches; thus the bifurcation of the aorta, &c. BIFURCATIO. Bifurcation. BIFURCATIO. (From bis, twice, and furce, a

BIFURCATUS. (From bis, twice, and furca, a process of the process

BIGA'STER. (Bigaster: from bis, twice, and γαςηρ, a belly.) A name given to muscles which have two bellies.

two beines. BIGEMINATUS. (From bis, and gemini, twins.) Twice paired. Biconjugatus. A leaf is so called when near the apex of the common petiole there is a single pair of secondary petioles, each of which support a pair of opposite leaflets; as in Mimosa unviscost.

BIHERNIUS. (From bis, double, and hernia, a disease so called.) Having a double hernia or one on

each side.

Billydroguret of carbon. See Carburetted hydrogen.
BIJUGUS. A winged leaf is termed folium bijugum, which bears two pairs of leaflets.
BILABIATUS. Two-lipped. Often used in bo-

BILABIATUS. Two-lipped. Often used in botany; as perseurpium bilabiatum; corolla bilabeata, &c. BILACINIATUS. Applied to a leat. Folium bilaciniatum; when cut into two segments. BILA DEST. A name of iron.

BILAMELLATUS. Composed of two lamins. Bilacoper boan. See Arbutus uva ursi.

BILDSTEIN. See Figurestong.

BILE. (Bilis. Navius derives it from bis, twice, and lis, contention; as being supposed to be the cause of anger and dispute.) The gall. A bitter fluid, secreted in the glandular substance of the liver; in part flowing into the gall-bladder. The secretory organs of this fluid are the penicilli of the liver, which terminate in very minute canals, called bilary ducts. The biliary ducts pour their bile into the ductus hepaticus, which ducts pour their bile into the ductus hepaticus, which conveys it into the ductus communis chaledochus, from whence it is in part carried into the duodenum. The other part of the bile regurgitates through the cystic duct into the gall-bladder: for hepatic bile, except during digestion, cannot flow into the duodenum, which contracts when empty; hence it necessarily regurgitates into the gall-bladder. The branches of the vena portæ contribute most to the secretion of bile; its peculiar blood, returning from the abdominal viscera, is supposed to be, in some respects, different from other venal blood, and to answer exactly to the nature of bile. It is not yet ascertained clearly whether the florid blood in the hepatic artery, merely nourishes the liver, or whether, at the same time, it contributes a certain principle, necessary for the formation of bile. 

1. Hepatic bile, which flows from the liver into the duodenum: this is thin, of a faint yellow colour, incodorous, and very slightly bitter, otherwise the liver

odorous, and very slightly bitter, otherwise the fiver of animals would not be catable.

2. Cystic bile, which regurgitates from the hepatic duct into the gail-bladder, and there, from stagnating, becomes thicker, the aqueous part being absorbed by lymphatic vessels, and more acrid from concentration Healthy blie is of a yellow, green colour; of a plastic consistence, like thin oil, and when very much agitated, it froths like soap and water: its smell is fatuous, somewhat like musk, especially the putretlying or evaporating bile of animals: its taste is bitter.

The primary uses of this fluid, sa important to the

The primary uses of this fluid, so important to the animal economy, are.

3. It imparts a yellow colour to the excrements thus we observe the white colour of the faces in james dice, in which disease the flow of bile into the duode-num is entirely prevented.

4. It prevents the abundance of mucus and acidity

4. It prevents the doundance of mirrus and accurage in the primary vie; hence acid, pituitous, and verminous saburra are common from deficient or inert bile.

The chemical anatysis of bile has been principally illustrated by Mons. Thenard. "Ox bile is usually of a greenish-yellow colour, rarely of a deep green. By its colour it changes the blue of turnsole and violet to a radially sallow." At one were hitter, and slightly by its cloud r leanges the one of tornsoe and violent to a reddish-yellow. At once very bitter, and slightly sweet, its taste is scarcely supportable. Its smell, though feeble, is casy to recognise, and approaches somewhat to the nauseous adour of certain fatty mat-ters, when they are heated. Its specific gravity varies very little. It is about 1.025 at 43° F. It is somevery little. It is about 1.026 at 43° F. It is some-times limpid, and at others disturbed with a yellow matter, from which it may be easily separated by Water; its consistence varies from that of a thin muci-lage, to viscidity." Cadet regarded it as a kind of soap. This opinion was first refuted by Thenard. According to this able chemist, 600 parts of ox bile are composed of 700 water, 15 resinous matters, 67 picromel, about 4 of a yellow matter, 4 of soda, 2 phosphate of soda, 3.5 muriates of soda and potassa, 0.8 subhate of soda, 12 phosphate of 0.8 sulphate of soda, 1.2 phosphate of lime, and a trace of oxide of iron. When distilled to dryness, it leaves from 1.8th to 1.3th of solid matter, which, urged with a higher heat, is resolved into the usual igneous products of animal analysis; only with more oil and less carbonate of ammonia

less carbonate of ammonia.

Exposed for some time in an open vessel, the bile gradually corrupts, and lets fall a small quantity of a yellowish matter; then its mucilage decomposes. Thus the putrefactive process is very mactive, and the odour it exhales is not insupportable, but in some cases has been thought to resemble that of musk. cases has been thought to resemble that of musk. Water and alkohol combine in all proportions with bile. When a very little acid is poured into bile, it becomes stightly turbid, and readens litmus; when more is added, the precipitate augments, particularly if sulphuric acid be employed. It is formed of a yellow animal matter, with very little resin. Potassa and sodia increase the thinness and transparency of bilts. bile. Acetate of lead precipitates the yellow matter, and the sulphuric and phosphoric acids of the bile. The solution of the subacetate precipitates not only The solution of the subacetate precipitates not only these bodies, but also the picronicl and the nurratic acid, all combined with the oxide of lead. The acetic acid remains in the liquid united to the soda. The greater number of fatty substances are capable of being dissolved by hile. This property, which made it be considered a soap, is owing to the soda, and to the triple compound of soda, resin, and picromel. Scourers sometimes prefer it to soap, for cleansing woollen. The bile of the calf, the dog, and the sheep, are similar to that of the ox. The bile of the sox contains no picromel. It is merely a soda-re-sinous soap. Human bile is peculiar. It varies in colour, sometimes being bile is peculiar. It varies in colour, sometimes being green, generally yellowish-brown, occasionally almost colourless. Its taste is not very bitter. In the gallcolourless. Is taste is not very bitter. In the gall-bladder it is seldom limpid, containing often, like that of the ox, a certain quantity of yellow matter in sus-pension. At times this is in such quantity, as to ren-der the hile somewhat grumous. Filtered and boiled, it becomes very turbid, and diffuses the odour of white of egg. When evaporated to dryness, there results a brown extract, equal in weight to 1-11th of the bile. By calcination we obtain the same salts as from ox bile. All the acids decompose human bile, and occasion.

Hy catemation we obtain the same saits as from of other. All the acids decompose human bile, and occasion an abundant precipitate of albumen and resin, which are easily separable by alkohol. One part of nitric acid, sp. grav. 1.210, saturates 100 of bite. On pouring late it a solution of sugar of lead, it is changed into a liquid of a light-yellow colour, in which no pieromed liquid of a light-yellow colont, in which no picromel can be found, and which contains only acetate of soda and some traces of animal matter. Human bile soda and some traces of animal matter. Human bile soda and some traces of animal matter, human bile soda and some traces of animal matter, human bile soda and some traces of animal matter, human bile soda and some traces of animal matter, human bile soda and some traces of animal matter, human bile soda and some traces of animal matter. Human bile soda and some traces of animal matter, human bile some traces of animal matter. Human bile soda and some traces of animal matter. Human bile soda and some traces of animal matter. Human bile some traces of animal matter is some traces of animal matter. Human bile some traces of animal matter. Human bile some traces of animal matter is some traces of animal matter. Human bile some traces of animal matter is some traces of animal matter. Human bile some traces of animal matter is some traces of animal matter. The some traces of animal matter is some traces of animal matter is some traces of animal matter. The some traces of animal matter is some traces of animal matter is some traces of animal matter is some traces

1. To separate the chylle from the chyme: thus chyle is never observed in the duodenum before the chyme has been mixed with the bite; and thus it is that of sextreatted from lines by the bite of animals.

2. By us acradily it excites the peristatic motion of the intestines; hence the bowels are so inactive in people with jaundice.

3. It imparts a yellow colour to the excrements.

Illightight lans through the first property of the property of

phosphate of lime.

BILGCER, John Ulrick, was born at Coire, in Swisserland. He practised surgery at Berlin with such reputation, that he was appointed, by the great Frederick, Surgeon-General to the Prussian army. It was then the general practice to amputate in bad compound fractures; and being struck with the smail proportion of those who recovered after the operation, the was left in the present of the proposed of the propo he was led to try more lenient methods; from which meeting with much better success, he published as a thesis, on graduating at Halle, in 1764, a pretty general condemnation of amputation. This work attracted much notice throughout Europe, and materially checked the unnecessary use of the knife. In his "Instruc-tions for Hospital Surgeons," which appeared soon after, he insisted farther on the same subject; and where amputation was unavoidable, he advised leaving a portion of the integuments, which is now gene-

BI'LIARY. (Biliaris; from bilis, the bile.) Of

or belonging to the bile.

or belonging to the bile.

Billary Duct. Ductus biliosus. The very vascular glaudules, which compose almost the whole substance of the liver, terminate in very small canals, called biliary ducts, which at length form one trunk, the ductus hepaticus. Their use is to convey the bile, secreted by the liver, into the hepatic duct; this uniting with a duct from the gall-bladder, forms one common canal, called the ductus communis choledochus, which

canal, cancer the auctus communes choicacolus, which conveys the bile into the intestinal canal.

Bili'mbl. (Indian.) See Malus Indica.

Bi'LIOUS. (Biliosus, from bilis, bile.) A term very generally made use of, to express diseases which arise from too copious a secretion of bile: thus bilious arise from too copious a secretion of bile: colic, bilious diarrhæa, bilious fever, &c. BULIS. See Bile.

The supposed cause BILIS ATRA. Black bile.

BILIS ATRA. Black blue. The supposed cause among the ancients of melancholy. BILIS CYSTICA. Bills fellen. Cystic bile. The bile when in the gall-bladder is so called to distinguish it from that which is found in the liver. See Bile.

from that which is found in the liver. See Bide.

Bills HEPATICA. HEPATIC bile. Bile that has not
entered the gail-bladder. See Bide.

Bl'LOBUS. (From bis, double, and lobus, the end
of the ear.) Having two jobes, resembling the tipe of
cars: applied to a leaf, folium bilobum, when it is
deeply divided into rounded segments, as the petals of the Geranium pyrenaicum and striatum which are

bilobed. BILOCULARIS (From bis, twice, and loculus, a little cell.) Two-celled; applied to a capsule which has two cells.

BILOCULARES. Is the name of a natural order of

BIME'STRIS. (From bis, twice, and mensis, month.) Two months old.
BINATUS. Einus. Binate. A term applied to compound leaves, when consisting of a pair of leadlets ouly, on one footstalk as in the great everlasting pea

only, on one lootstalk as in the great everlasting and other species of lathyrus.

BINDWEED. See Convolvulus septum.
BINERVIUS. Two-nerved. Having two represents over apparent. Hence, folium binerium. Having two ribs on

nerves very apparent. Hence, Joium Dimerium.
BINGA'LLE. See Casumuniar.
BING'CULUS. (From binus, double, and oculus, the
eye.) A handage for securing the dressings on both eyes.
BY NSICA. A disordered mind.—Helmont.
BINSICA MORS. The binsical, or that death which
follows a disordered mind.

BINUS. (From bis, twice.) Two by two; by couplets; applied to leaves when there are only two couples; applied to fearer when there are only two upon a plant, folia bina; as in Convallaria majntis, &c. Bioly'cunum. (From βιος, life, and λυχνιον, a lamp.) Vital heat: also the name of an officinal

to the basis; as calya bipartitus; follum bipartitum; perianthium bipartitum; and petala bipartita.

Bipenet'Lla. See Pimpinella.

Bipenet'Lla. See Pimpinella.

Bipenet'Lla. See Pimpinella.

Bipenet'Lla. See Pimpinella.

long rough-headed poppy, Papaver arzemone.

innatificus.

BIPINNATIFIDUS. Doubly pinnatifid; applied

to a leaf. See Leaf.

BIPINNATUS. Doubly pinnate. A compound leaf is so termed when the secondary petioles are leal is so termed when the secondary petioles are arranged in pairs on the common petiole, and each secondary petiole is pinnate.

Bi'Ra. Malt liquor or beer.

Birk'o. Stone Paisley.

BirCH. See Bettala.

BirDLIME. The best birdline is made of the

BIRDLIME. The oest ordinar is made or the middle bark of the holly, boiled seven or eight hours in water, till it is soft and tender; then laid in heaps in pits in the ground and covered with stones, the water being previously drained from it; and in this state left for two or three weeks to ferment, till it is reduced to a kind of mucilage. This being taken from the pit is pounded in a mortar to a paste, washed in river water, and kneaded, till it is freed from extraneous matters. In this state it is left four or five days in earthen vessels, to ferment and purify itself, when it is fit for use

It may likewise be obtained from the misletoe, the Viburnum lantana, young shoots of elder, and other vegetable substances

It is sometimes adulterated with turpentine, oil, vine

gar, and other matters.

Good birdlime is of a greenish colour, and sour fla-Good birdine is of a greenish colour, and sour flavour; gluey, stringy, and tenacious; and in smell resembling linesed oil. By exposure to the air it becomes dry and brittle, so that it may be powdered; but its viscidity is restored by wetting it. It reddens tincture of litnuss. Exposed to a gentle heat it liquefies slightly, swells in bubbles, becomes grumous, emits a smell resembling that of animal oils, grows brown, but recovers its properties on cooling, if not heated too much. With a greater heat it hurns, giving, out. a high days. With a greater heat it burns, giving out a brisk flame and much smoke. The residuum contains sulphate and muriate of potassa, carbonate of lime and alumina, with a small portion of iron.

BIRDSTONGUE. A name given to the seeds of the Fluxinus excelsior of Linnaus.

Bi'rsen. (Hebrew for an apportune in the breast.

BIRTHWORT. See Aristolochia.

Birthwort, climbing. See Aristolochia elematitis.

Birthwort, long-rooted. See Aristolochia longa.

anake-killing. See Aristolochia an-

BISCO'CTUS. (From bis, twice, and coque, to bil.) 'Twice dressed. It is chiefly applied to bread boil.) 'Twice dressed. much baked, as biscuit.

BISCUTE'LLA. Mustard. BISE'RMAS. A name formerly given to clary, or

BISILI'NGUA. (From bis. twice, and lingua, a tongue: so called from its appearance of being double-tongued; that is, of having upon each leaf a less leaf.) The Alexandrian laurel.

BISMA LVA. From vismalva, quasi viscum malva, from its superior viscidity. The water, or marsh-

mallow

BI'SMUTH. (Bismuthum, from Bismut, Germ.)

A metal which is found in the earth in very few different states, more generally native or in the metallic state. Native bismuth is met with in solid masses, and also in small particles dispersed in and frequently and also in small particles dispersed in and frequently deposited on different stones, at Schreeberg, in Saxony, Sweden, &c. Sometimes it is crystallized in four-sided tables, or indistinct cubes. It exists combined with oxygen in the oxide of bismuth (bismuth hochre) found in small particles, dispersed, of a bluish or yellowish-gray colour, needle-shaped and capillary; sometimes laminated, forming small cells. It is also, though more serious, united to sublique and iron in the form of more seldom, united to sulphur and iron in the form of a sulphuret in the martial sulphuretted bismuth ore. This ore has a yellowish-gray appearance, resembling somewhat the martial pyrites. And it is sometimes combined with arsenic.

Blamuth is a metal of a yellowish or reddish-white colour, little subject to change in the air. It is somewhat harder than lead, and is scarcely, if at all malleable; being easily broken, and even reduced to powder, by the hammer. The internal face, or place of fracture, exhibits large shiring plates, disposed in a variety of positions; thin pieces are considerably sonorous. At a temperature of 4800 Fahrenheit, it melte, and its surface becomes covered with a greenish-gray or brown oxide. A stronger heat ignites it, and causes it to burn with a small blue flame; at the same time that a yellowish oxide, known by the name of flowers of bismuth, is driven up. The oxide appears to rise in consequence of the combustion; for it is very fixed, and runs into a greenish glass when exposed to heat alone.

Bismuth urged by a strong heat in a close vessel, sublimes entire, and crystallizes very distinctly when gradually cooled.

The sulphuric acid has a slight action upon bismuth,

when it is concentrated and boiling. Sulphurous acid gas is exhaled, and part of the bismuth is converted into a white oxide. A small portion combines with the sulphuric acid, and affords a deliquescent salt in the form of small needles.

The nitric acid dissolves bismuth with the greatest The fittie acid dissolves dismitted with the greatest rapidity and violence; at the same time that much heat is extricated, and a large quantity of nitric oxide escapes. The solution, when saturated, affords crystals as it cools; the salt detonates weakly, and leaves a yellow oxide behind, which effloresces in the air. Upon dissolving this salt in water, it renders that fluid of a milky white, and lets fall an oxide of the same

The nitric solution of bismuth exhibits the same property when diluted with water, most of the metal failing down in the form of a white oxide, called magistery of bismuth. This precipitation of the nitric solution, by the addition of water, is the criterion by which bismuth is distinguished from most other metals. The magistery or oxide is a very white and subtile powder; when prepared by the addition of a large quantity of water, it is used as a paint for the complexion, and is thought gradually to impair the skin. The liberal use of any paint for the skin scens indeed likely to do this; but there is reason to suspect, from the resemblance between the general properties of lead and bismuth, that the oxide of this metal may be attended with effects similar to those which the oxides of lead are known to produce. If a small portion of The nitric solution of bismuth exhibits the same pro of lead are known to produce. If a small portion of muriatic acid be mixed with the pitric, and the precipitated oxide be washed with but a small quantity of cold water, it will appear in minute scales of a pearly lustre, consisting the pearl powder of perfumers. These paints are liable to be turned black by sulphuretted hydrogen gas.

The muriatic acid does not readily act upon bismuth. When bismuth is exposed to chlorine gas it takes fire, and is converted into a chloride, which, formerly prepared by heating the metal with corrosive subli-mate, was called butter of bismuth. The chloride is of a grayish-white colour, a granular texture, and is opaque. It is fixed at a red heat. When iodine and bismuth are heated together, they readily form an iodide of an orange yellow colour, insoluble in water, but easily dissolved in potassa ley.

Alkalis likewise precipitate its oxide; but not of so beautiful a white colour as that afforded by the affu-

sion of pure water.

The gallic acid precipitates bismuth of a greenishyellow, as ferroprussiate of potassa does of a yellow-

There appears to be two sulphurets, the first a com-100 to 46,5: the second is a bisulphuret.

The metal unites with most metallic substances, and renders them in general more fusible. When calcined with the imperfect metals, its giass dissolves them, and produces the same effect as lead in cupillation; in which process it is even said to be preferable to lead.

which process it is even and to be preterance to fead.
Bemuth is used in the composition of pewter, in the
fabrication of printers' types, and in various other metallic mixtures. With an equal weight of lead, it
forms a brilliant white alloy, much harder than lead,
and more malleable than bismuth, though not ductile;
and if the proportion of lead be increased, it is rendered still more malleable. Eight parts of bismuth

five of lead, and three of tin, constitute the fusible inetal, sometimes called Newton's, from its discoverer, which melts at the heat of boiling water, and may be fused over a candle in a piece of stiff paper without burning the paper. One part of bismuth, with five of lead, and three of tin, forms plumbers' solder. It forms the basis of a sympathetic ink. The oxide of bismuth precipitated by potassa from nitric acid, has been recommended in spasmodic disorders of the stomach, and given in doses of four grains, four times a day. A writer in the Jena Journal says he has known the dose carried gradually to one scruple without injury.

Bismuth is easily separable, in the dry way, from its ores, on account of its great fusibility. It is usual, in the processes at large, to throw the bismuth ore into a fire of wood; beneath which a hole is made in the ground to receive the metal, and defend it from oxidation: The same process may be imitated in the small way, in the examination of the ores of this metal;

small way, in the examination of the ores of this metal; nothing more being necessary, than to expose it to a moderate heat in a crucible, with a quantity of reducing flux; taking care, at the same time, to perform the operation as speedily as possible, that the bismuth may be neither oxidized nor volatilized.

[ii In the United States, native bismuth has been found in Connecticut. The officinal preparation of this metal is the submitrate. As a small portion of initric acid remains combined with the oxide of bismuth in its preparation, it is properly called a submitrate. The precipitation which takes place from the nitrie solution, by adding mere water, is a criterion by which bismuth is distinguished from most other metals. Submitrate of bismuth is a fine, soft prowder, of a Subnitrate of bismuth is a fine, soft powder, of a pearly white colour, and nearly destitute of taste and smell. It changes to a dark colour on the contact of

sulphuretted or carburetted hydrogen.

Under the name of magistery of bismuth, this sub-stance was formerly regarded as noxious to the human system. But during the last forty years it has been brought into the practice of medicine, and found to be a salutary tonic to the stomach and organs of diges-Its use commenced in Geneva, and it has since had the testimony of some of the most distinguished physicians in France and England in its favour. It has also in this country generally satisfied the expectations formed of it. In dyspeptic complaints, especially tions formed or it. In ayspeptic companies, especially in patients of a nervous temperament, it is found a very useful palliative, and sometimes does much toward promoting a cure. It is an important medicine in the case of persons habitually subject to cramp of the stomach, and does more to fortify that organ against the returns of the disease than perhaps any of the tonics in common use. In habitual vomiting or nausea, both from a primary affection of the stomach, and from sympathy with other parts, it frequently gives great relief. Its tonic effect appears not to be confined to the stomach, since it is found to do good in different spasmodic affections, such as palpitations and chorea. Recently, it has been announced to cure intermittents.

A draching of the bismuth, with an equal quantity of liquorice powder, divided into twelve papers, three of which are to be taken during the day, will commonly be sufficient to display the activity of the medicine. Large quantities taken at once are unsafe."—Big. Mat. Med. A.

BISMU'THUM. (From bismut, German.)

bismath.

BISSET, CHARLES, was born about the year 1716. After studying at Edinburgh, and practising some years as an hospital-surgeon in Januaica, he entered the army; but soon after settled in Yorkshire, and in 1755, published a Treatise on the Scurvy. But his most celebrated work is an "Essay on the Medical Constitution of Great Britain," in 1762. He obtained three years after a diploma from St. Andrew's, and reached his 75th year.

BISTORTA. (From bis, twice, and torquee, to bend; so called from the contortions of its roots) Bistort. See Polygoman bistarta.

BISTOURY. (Bistoire, French.) Any small knife for surgical purposes:

for surgical purposes:
BISTRE. A brown pigment, consisting of the finer
parts of wood soot, separated from the grosser by
washing. The soot of the beech is said to make the

BISULPHATE. A sulphate with an additional

quantity of sulphuric acid.

BIT NOBEN. Salt of bitumen. A white saline substance has lately been imported from India by this substance has lately been imposted from India by this name, which is not a natural production, but a Hindoo preparation of great antiquity. It is called in the country, bit nobes, padanoon, and saucherloon, and popularly khata memoc, or black sait. Mr. Henderson, of Bengal, conjectures it to be the sal asyhalistics and sal sodomenus of Pliny and Galen. This salt is far more extensively used in Hindostan than any other medicine whatever. The Hindoos use it to improve their appetite and digestion. They consider it as a sweetile or obstructions of the liver and scheme, and it their appetite and digestion. They consider it as a specific for obstructions of the liver and spleen; and it is in high estimation with them in paralytic disorders, is in ngn estimation with them in paralytic disorders, particularly those that affect the organs of speech, cutaneous affections, worms, old rheumatisms, and indeed all chronic disorders of man and beast.

BITERNATUS. Twice-ternate. Applied to compound leaves, when the common footstalk supports these secondary, actions on its area, and each of these

pound leaves, when the common footstalk supports three secondary petioles on its apex, and each of these support three leatlets; as in \*\*Bappadium\*\*. BITHENDERS A Galenical plaster.
BITTER. \*\*Amarus.\*\*
BITTER APPLE. See Cucumis Colocynthis.
BITTERN. The mother water which remains after the crystallization of common salt in sea-water, or the water of salt springs. It abounds with sulphate and unriet of magnesia to which its hittages. and muriate of magnesia, to which its bitterness is

BITTERSPAR. Rhombspar. A mineral of a grayish or yellowish colour, and somewhat pearly lustre, usually found embedded in serpentine, chiorite, or steathe, and found in the Tyrof, Salsburg, Dauphiny, Scotland, and the Isle of Man.

BITUMEN. (ILI)vua, nilvs, pine; because it flows from the pine-tree; or, quid vi tument eterra, from its bursting forth from the earth.) This term includes a considerable range of inflammable, mineral. cludes a considerable range of inflammable mineral substances, burning with flame in the open air.

substances, burning with flame in the open air. They are of different consistency, from a thin fluid to a solid; but the solids are for the most part liquefiable at a moderate heat. The fluid are,

1. Naphtha; a fine, white, thin, tragrant, colourless, oil, which issues out of white, yellow, or black clays in Persia and Media. This is highly inflammable, and is decomposed by distillation. It dissolves resing, and the essential oils of thyme and lavender; but is not itself soluble either in alkohol or ether. It is the lightest of all the dense fluids, its excellent are in heiter. lightest of all the dense fluids, its specific gravity being See Nophtha

0.708. See Nopithia.
2. Petroleum, which is a yellow, reddish, brown, greenish, or bitackish oil, found dropping from rocks, or issuing from the earth, in the dutchy of Modena, and in various other parts of Europe and Asia. This likewise is, insoluble in alkohol, and seems to consist of maphtha, thickened by exposure to the atmosphere. It contains a portion of the succinic acid. See Petroleum.

troleum.

3. Barbadoes tar, which is a viscid, brown, or black inflammable substance, insoluble in alkohol, and containing the succinic acid. This appears to be the mineral of in its third state of alteration.

The solid are, 1. Asphaltum, mineral pitch, of which there are three varieties: the cohesive; the semi-compact, maitha: the compact, or asphaltum. These are smooth, more or less hard or brittle, inflammable substances, which melt easily, and burn without leaving any or but little ashes, if they be pure. They are slightly and partially acted on by allerbol. They are slightly and partially acted on by alkohol and other. See Asphaltum.

and gener. Sometimes.

2. Mineral tallow, which is a white substance of the consistence of tallow, and as greasy, although more brittle. It was found in the sea on the coasts of more brittle. It was found in these a on the coasts of Finland, in the year 1736; and is also met with in some rocky parts of Persia. It is near one-fifth lighter than tallow; burns with a blue flame, and a smell of grease, leaving a black viscid matter behind, which is more difficultly consumed.

more difficulty consumed.

3. Elastic bitumen, or mineral caoutchouc, of which there are two varieties. Besides these, there are other bituminous substances, as jet and amber, which approach the harder bitumens in their nature; and all the varieties of pit coal, and the bituminous schistus, or shale, which contain more or less of bitumen in their composition.

BITUMEN BARBADENSE. See Petroleum barbadense. BITUMEN JUDAICUM. Asphaltus. Jews' pitch. A solid, light, bituminous substance; of a dusky colouron the outside, and a deep shining black within; of very little taste, and scarcely any smell, unless heated; when it emits a strong pitchy one. It is said to be found plentifully in the earth in several parts of Egypt, and floating on the surface of the Dead sea. It is now wholly expunged from the catalogue of offi-It is now whole expansion from the action of this country; but was formerly esteemed as a discutient, sudorine, and emmenagogue.

BITUMEN LIQUIDUM. See Petroleum.

BITUMINOUS. Of the nature of bitumen.

[BITUMINOUS COAL. In the United States, coal has been explored in several districts, and undoubtedly exists in great abundance. In Virginia, near Richmond, is a deposite of coal about 20 miles in length, and ten miles in breadth; it is accompanied by a whitish sand-stone and shale, with vegetable impressions, as is usual in the independent coal formation, which here lies over, and is surrounded by, primitive rocks. In Pennsylvania, coal is found on the west branch of the Susquehannah; in various places west of that branch; also on the Juhiata, and on the waters of the Alleghany and Monon-gahela. Indeed, according to Mr. Maclure, the inde-pendent coal formation extends from the head waters of the Ohio, with some interruptions, to the waters of the Tombigbee river, in Alabama.—See C. Min. A.

BITUMINOUS LIMESTONE. Found near Bristol, and in Galway, in Ireland. The Dalmatian is so charged with bitumen, that it may be cut like soap, and is used for building houses. When the walls are rearred, fire

is applied to them, and they burn white.

BIVALVIS. Two-valved. Applied to the valves
of the absorbents in anatomy, and in botany to cap-

of the absorbents in anatomy, and in botany to capsules.—Capsula bivalvis.

BIVASCULARIS. (From bis, twice, and vasculum, a little vessel.) Having two cells.

BIVE-NTER. (From bis, twice, and venter, a belly.) A muscle is so termed, which has two belies. BIVENTER CERVICIS. A muscle of the lower jaw.

BIVENTER MAXILLE INFERIORIS. See Digastricus.
BI'XA. The name of a genus of plants. Class,
Polyandria. Order, Monogynia.
BIXA ORELLANA. The systematic name for the
plant affording the terra orellana or annotto of the
shops and pharmacopeaias. The substance so called
is a ceraceous mass obtained from the pellicles of the In Jamaica and other warm climates, it is considered as a useful remedy in dysentery, possessing adstringent and stomachic qualities; but here it is only used to colour cheese, and some other articles.

BLA'CKBERRY. The measles.—Rhazes.
BLA'CKBERRY. The fruit of the common bram-

BLACKBERKY. The fruit of the common orambles.—See Rubus fruitiosus.

[In the United States, there are two species of the blackberry, the fruit of which is eaten, and the roots used as astringents. They are the Rubus trivialis, or Dewberry, or running blackberry, and the Rubus villosus, or standing blackberry,

"The bark of the root of the dewberry, or low

blackberry, a common native briar, is highly astringent, possessing both tannin and gallic acid in large quantity. It is a popular remedy in cholera infantum, to which disease it appears well suited after liberal evacuations have been made. In the secondary stages of dysentery, and in diarrhea, after the removal of offending causes from the alimentary canal, it has been resorted to with success in controlling the discharges, and giving tone to the bowels. It is usually exhibited in strong decoction.

The Rubus villosus is commonly distinguished from the preceding by the name of high, or tall blockberry. The properties of the two are the same."—See Big.

Mat. Med.

A jelly made of the fruit is an excellent domestic remedy for young children in cholera infantum, after

proper evacuations. A.]
BLACK CHALK. A mineral of a bluish black colour, and slaty texture, which soils the fingers. It is found in primitive mountains, and occurs in Caer-

Is round in primitive mountains, and occurs in Caernarvonshire, and the island of Isla.

[Black Drop. "The formula for this preparation in the Pharmacopeia, is essentially the same with the one made public by Dr. Armstrong, and which, under the name of Black Drop, has been known and prized in England for a century and upwards. As the recipe

wants the usual precision of pharmaceutical formula; it may be proper to secure a tolerable uniformity of strength, by boiling the first ingredients no longer than is necessary to blend them together, and by afterward exposing them in a warm place, until about one-fourth of their original volume is evaporated. The compound directed in the Pharmacopæia should afford about two pints of strained liquor. As the filtration of so viscid a liquor is difficult, it may be strained without pressure through a double linen bag.

The black drop is a fermented aromatic vinegar of

The black drop is a termented aromatic vinegar or opium. Its taste, when properly prepared, is bitter and acid, the saccharine principle being changed by the fermentation. Its consistence is moderately viscid. Acetous solutions of opium have been in use since the days of Van Helmont, and even earlier. Our medical chemists of the present day consider that the peculiarities which attend the operation of these preventions depend unon, the formation of an accusate of parations depend upon the formation of these pre-parations depend upon the formation of an acctate of morphia. The black drop has sustained its popularity for a great length of time on account of its favourable operation. According to Dr. Armstrong, it often stays in the stomach when other preparations will not, and it also affects the head less than laudanum. Dr. Paris and other medical writers give their testimony to its usefulness.

About ten or twelve minims form a dose. Notwith-standing the advantages ascribed to this preparation, it is not always uniform in its strength, or in the amount of sediment it deposites. It is probable that a better vinegar of opium might be prepared."—Big. Mat.

BLACK JACK. Blende, or mock lead; an ore of zinc

of Zuic.

BLACK LEAD. See Plumbago.

BLACKMORE, Sir RICHARD, was born in Wilt shire about the year 1650. After studying at Oxford, he took his degree in medicine at Padua, then settled in London, and met with considerable success, insomuch that he was appointed physician to William III. and retained the same office under Queen Anne. He then published several long and dull epic poems, which appear to have materially lessened his reputation; so that his opposition to the inoculation for small-pox had that ins opposition to the more also several medical very little weight. He wrote also several medical tracts, which are little known at present.

RLACK WADD. One of the ores of manganese.

[Black vomit. This is one of the fatal symptoms

[Black vomit. This is one of the fatal symptoms of yellow fever, it being a very rare case for a patient to recover after its occurrence.

"A memoir on the analysis of black voltage and Cathral, was read before the American Philosophical Cathral, was read before the American Philosophical experienced and intrepid author has given a description the black vomit, has analyzed the fluids ejected a few hours before the commencement of black vomiting itself, to which he has added experiments to ascertain the effects of black vomit on the living system of man and other animals, and a synopsis of the opinions of authors concerning its formation and qualities. The experiments show that this singular morbid excretion contains an acid, which is neither carbonic, phospho-ric, nor sulphuric; and, what our readers will hardly expect, that the black vomit may be smelled, tasted, and swallowed, without inducing yellow fever, or even any sickness at all-so little injection or contagion does it seem to contain. He concludes it to be an altered secretion from the liver."—New-York Med. Repos.

secretion from the liver."—New-York Med. Repos. vol. iv. p. 75.

"Dr. May, of Philadelphia, dropped the matter of black vomit into his eyes, and never experienced inconvenience or sickness."—Med. Rep. vol. v. p. 131.

"Dr Flirth of Salem, in New-Jersey, has published a Dissertation on Malignant Fever, with an attempt to prove that it is not contagious. In this he relates a number of experiments which he has made upon the matter of black vomit, as discharged by persons labouring under that disease. He inoculated himself in the left fore-arm with black vomit just discharged from a moribund patient; a slight inflammation ensued, which subsided in three days, and the wound readily healed, and without the formation of pus. To avoid healed, and without the formation of pus. To avoid cavil and deception, he repeated these experiments above twenty times on various parts of his body, with the black matter collected in Philadelphia during the seasons of 1802 and 1803. He put it into his eye, without experiencing more inconvenience than cord water

produces. He exposed himself to the exhalations of it while acted upon by heat in an tron skiller, and ex-perienced no unpleasant sensation. He swallowed the thick extractive matter which remained after evaporation, in the form of pills, without incommeding his stomach. He even went so far as to mix half an ounce of fresh black vomit with an ounce and a half of water, and to drink it. It produced no more effect upon his stomach than so much water. He increased the dose to two ounces, and finally swallowed the black vomit in like quantity without any dilution at all, and without sustaining the least injury. He ino an, and without sustaining the least injury. He mo-culated himself with saliva and serum, with as little inconvenience!!"—Med. Rep. vol. viii. p. 70. A.] BLADDER. See Urinary bladder, and Gall-

bladder.

Bladder, inflamed. See Cystitis. BLADE-BONE. See Scapula. BLÆSITAS. (From blæsus.) A defect in speech, called stammering

BLæ'sus. (From βλαπ7ω, to injure.) A stammerer.

BLANCA. (Blanc, French.) A purging mixture; 60 called because it was supposed to evacuate the white phicymatic humours. Also white lead. BLANCARD, STEPHEN, was born at Leyden, and

graduated at Francker, in 1678. He settled at Amsterdam, and published many anatomical and medical works; especially one on morbid anatomy, containing 200 cases, and a "Lexacon Medicum," which passed through numerous editions.

BLA'SA. (Indian,) A tree, the fruit of which the Indians powder, and use to destroy worms.

BLASIUS, GERARD, son of a physician at Amster-

dam, from whom he derived a great predilection for comparative anatomy. After graduating at Leyden about the year 1646, he returned to his native city, and acquired so much reputation, that he was made pro-fessor of medicine in 1660, and soon after physician to the hospital. Besides publishing new editions of seve-ral useful works, with notes comprehending subse-

quent improvements, he was author of various original ones, especially relating to comparative and morbid anatomy. He claimed the discovery of the ductus salivaris, asserting he had pointed it out to Steno; to

whom it has been commonly ascribed.

Blaste'ma. (From βλας ανώ, to germinate.) A bud or shoot. Hippocrates uses it to signify a cutaneous pimple like a bud.

BLA'STUM MOSYLITUM. Cassia bark kept with the

BLA'TTA (From βλαττω, 'to hurt.) A sort of beetle, or bookworm; so called from its injuring books or clothes; the kermes insect.

[Blatta is the generic name given by Linnæus to the

Cock-roach, which infests houses, and preys upon pro-visions, and not upon clothes. A.]

\*\*Blatta'ria Lutea. (From blatta; so called, be-cause, according to Pliny, it engenders the blatta.)

The Verbascum blattaria, or herb yellow mothmullein

BLEACHING. The chemical art by which the various articles used for clothing are deprived of their natural dark colour, and rendered white.

natural dark colour, and reintered white.

Bleaching powder. The chloride of lime.

Ble chos. (From βληγομμα, to bleat; so called according to Pliny, because if sneep taste it they bleat) The herb, wild penny-royal. See Mentica palegiam.
BLEEDING. See Blood-letting and Hamorrhage.

BLEMA. (From δολλω, to indict.) A wound.
BLUNDE. A species of zinc ore, formed of zinc in combination with sulphur, forming a sulphuret of

RLE'NNA. Ελεινα. Blena. Mucus, a thick excrementitious humour.

BLENNORRHA GIA. (From βλεινα, mucus, and ρ'εω, to flow.) The discharge of mucus from the urethra.

BLENNORRHŒ'A. (From βλεννα, nucus, and δεω, to flow.) 1. A gleet; Gonorrhaa mucosa. A discharge of nucus from the urethra, arising from

2 The name of a genus of diseases in Good's Nosology, embracing three species, Blennorrhan simplex Tuoles, and chronice.

BLE PHAKA. (Quasi βλεπους chaos; as being the tover and decease of the sight.) The cyclids.

(From Blebasov.) The hair uport BLEPRA'RIDES. the eyelids; also the part of the eyelids where the hair

BLEPHAROPHTHA'LMIA. (From Base acov. the

HEPHANCHITHAL CHARLES (Prom Blockmon, the eyebd, and  $\alpha_0$  adjunct, a disease of the eye.) An inflammation of the eyelid. BLEPHARCHO SIS. (From Blockmon, the eyelid, and  $\pi f \sigma_0 \sigma_0 \sigma_0$ , from  $\pi \pi f \sigma_0$ , to fall.) A prolapse, or falling down of the upper cyclid, so as to cover the

cornea. See Prisss.

BLEPHARO TIS. (From βλεφαρον, the cyclid.)

An inflammation of the cyclids.

BLEPHARO XVSIS. (From βλεφαρον, the cyclid, and ξωω, to scrape off.)

1. The cleansing of the cyclids.

ξω, (ο scrape off.) I. The cleaning of the cyclids.

2. Inflammation of the cyclids.

Blepharoxy ston. (From βλεφαρον, the cyclid, and ξω, to scrape off.) A brush for the cycs. An instrument for cleaning or scraping off foul substances from the eyelids.

from the eyetrus.

BLESSED. Benedictus. Applied to remedies and plants from their supposed virtues. See Benedictus.

Blessed Thistle. See Centaurea benedictu.

BLESTRISMES. (From βαλλω, to throw about.) Applied to remedies and

BLE'TA. A word used by Paracelsus to signify white, and applied to urine when it is milky, and pro-ceeds from a disease of the kidneys.

Cosus from a disease of the Kinneys.

Ble Ti. (Bletus, from βαλλω, to strike.) Those seized with dyspinca or suffocation.

BLISTER. Vesicatorium; Epispasticum. 1. The name of a topical application, Emplastrum vesicatorium, which when put on the skin raises the cuticle in the form of a vesicle, filled with a serous fluid. Various substances produce this effect on the skin; but the ous studentes produce the network me sam, but operates with most certainty and expedition, and is now invariably made use of for the purpose.

It is a principle sufficiently established with regard

to the living system, that where a morbid action exists, it may often be removed by inducing an action of a different kind in the same or neighbouring part. On this principle is explained the utility of blisters in local inflammation and spasmodic action, and it regulates their application in pneumonia, gastritis, hepatitis, phrenitis, augina, rheumatism, colic, and spasmodic attections of the stomach; diseases in which they are employed with the most marked advantage. compayed with the most market advantage. A similar principle exists with respect to pain; exciting one pain often relieves another. Hence bilisters often give relief in teothache, and some other painful affections. Lastly, blisters, by their operation, communicate a stimulus to the whole system, and raise the virgour of the circulation. Hence it is not the whole system and the circulation. the circulation. the circulation. Hence, in part, their utility in fevers of the typhoid kind, though in such cases they are used with stall more advantage to obviate or remove local

With stail more divariage to obstace of seniore loss inflammation.

When it is not wished to maintain a discharge from the blistered part, it is sufficient to make a puncture in the cuticle to let out the fluid; but when the case requires keeping up a secretion of pus, the surgeon must remove the whole of the detached cuticle with a pair of seissors, and dress the exceriated surface in a par-ticular manner. Practitioners used formerly to mix powder of cantharides with an ointment, and dress the part with this composition. But such a dressing not underquently escasioned very painful affections of the bladder, a scalding sensation in making of water, and very affecting stranguries. The treatment of such very afflicting stranguries. The treatment of such complaints consists in removing every particle of the fly from the histered part, making the patient drink abundantly of mediaginous drinks, giving emulsions

and some doses of camphor. These objections to the employment of salves containing the lytta, for dressing blistered surfaces, led to the use of mezereon, euphoroiaun, and other frittaing substances, which, when incorporated with ointment. form very proper compositions for receping blisters open, which they do without the inconvenience of arritating the biadder, like the blastering fly. The favourne ap-

plication, however, for keeping open blisters, is the savine cerate, which was brought into notice by Mr. Crowther in his book on white swellings. (See Ceratum (abina.) On the use of the savine cerate, immediately after the cuticle raised by the blister is re-

meyed, say. Mr. Crowtner, it smould be observed that expresence has proved the dvantage or using the ap-

pleation lowered by a halt or two-thirds of us

produce less irritation and more discharge, than if the savine cerate were used in its full strength. Mr. Crowther says also, that he has found fomenting the part with flannel, wrung out of warm water, a more easy and preferable way of keeping the blistered surface clean, and fit for the impression of the ointment, has been in the for the impression of the wholes. An occasional dressing of unguentum resine flave, he has found a very useful application for rendering the sore free from an appearance of slough, or rather dense lymph, which has sometimes been so firm in its texture as to be separated by the probe, with as much readiness as the cuticle is detached after blistering. As the discharge diminishes, the strength of the savine dressing should be proportionably increased. The ceratum sabina must be used in a stronger, or weaker degree, in proportion to the excitement produced on the patient's skin.

2. The name of a vesicle on the skin, whether formed by a blistering application, or arising from any

BLISTER-FLY. See Cantharis.
BLISTER-FLY. See Chenopodium vulvaria.
BLI'TUM FOTIDUM. See Chenopodium vulvaria.
BLIONDEL, JAMES ACCUSTUS, was born in England of a French family, and admitted licentiate of the College of Physicians about 1720. He chiefly distinguished. guished himself by controverting, in a very able manner, the opinion then generally received, that marks could be imprinted on the fœtus by the imagination of the mother, and he has the merit of contributing very largely to the removal of this prejudice, which had

largely to the removal of this prejudice, which had prevailed for ages, and often produced much mischief. BLOOD. Sanguis. A red homogeneous fluid, of a saltish taste, and somewhat urinous smell, and glutinous consistence, which circulates in the cavities of the heart, arteries, and velns. The quantity is estimated to be about twenty-eight pounds in an adult; of this, four parts are contained in the veins, and a fifth in the arteries. The colour of the blood is red; in the arteries it is of a florid line, in the veins darker; except only the pulmonary vessels in which the colour is reversed. The blood is the most important fluid of our body. Some physicians and anatomists have considered it as anve, and have formed many insent us hypotheses in support of its vitality. The temperature of this fluid is of considerable importance, and appears of this flaid is of considerable importance, and appears to depend upon the circulation and respiration. The blood of man, quadrupeds, and birds is better than the medium they inhabit, hence they are termed animals of warm blood; while in fishes and reptiles, animals with cold blood, it is nearly of the temperature of the medium they inhabit. The blood pressesses remarkable physical properties. Its colour is of a dark red, it is physical properties. Its colour is of a dark red, it is less deep in certain cases, and perhaps even scarlet. Its odour is inspired, and sait generis; its taste is also peculiar; however, it is known to contain salts, and principally the muriare of solar. Its specific gravity is a little more than that of water. Haller found its medium as 1.0527; 1.0060. Its capacity for calcasic may be expressed by 934, that of arterial blood being 921. Its mean temperature is 31 degrees of fleatmar; = 102 F. 102 F.

Venous blood, being extracted from its proper vessels, and left to itself, in a short time forms a soft mass; this mass separates spontaneously into two parts, the one family yellowish, transparent, called seram: the other soft, almost solid, of a deep brown red, eatherly opaque: this is the craor, or clat. This occupies the bottom of the vessel; the serum is placed above. Sometimes a thin layer forms at the top of the serum, which is soft and reddish, and to which has been very improperly given the name of rind, buff, or crust of

This spontaneous separation of the elements of the blood does not take place quickly, except when it is in repose. If it is agitated it remains fiquid, and pre-

repose. If it is agilated it remains inquit, and poserves its homogeneity much longer.

If the venous blood is placed in contact with the atmosphere, or with oxygen gas, it takes a vermilion red colour; with animenia it becomes che cy red; with axote a deeper brown red, &c. In changing colour it absorbs a considerable quantity of these det forent cases: it exhales a considerable quantity of cur-home acid, when kept some time under a bell upon

The sorum some mes presents a whitish that, as it

An attention to this direction will | milky, which has made it be supposed that it contained chyle: it appears to be a fatty matter which gives it

The cruor, or clot of the blood is essentially formed of fibrin, and colouring matter.

The fibrin, separated from the colouring matter, is The norm, separated from the colouring matter, is whitish, insipid, and inodorous; heavier than water, without action upon vegetable colours, elastic when humid, it becomes brittle by being dried.

In distillation it gives out a great deal of carbonate of ammonia, and a vast quantity of carbon, the ashes of which contain much phosphate of lime, a little phosphate of magnesia, carbonate of lime, and carbonate of soda. A hundred parts of fibrin are composed of.

| Carbon   | 53,360 |
|----------|--------|
| Oxygen   | 19.685 |
| Hydrogen |        |
| Azote    | 19.934 |

Total..... 100.000

The colouring matter is soluble in water and in the serum of the blood. Examined with the microscope in solution with these liquids, it appears like most fluids of the animal economy, formed of small globules; dried and calcined in contact with the air, it outes; dried and calcined in contact with the art, it melts and swells up, burns with flame, and yields a coal that is difficultly reduced to ashes.

It is of importance to remark, that in none of the parts of the blood are any getatine or phosphate of

iron found, as was at first supposed

The respective relations in quantity of the serum to the coagulum, and those of the colouring matter to the fibrin, have not yet been carefully examined. It is to

be presumed, as we shall see afterward, that they are variable according to an infinity of circumstances.

The coagulation of the blood has been, by turns, attributed to refrigeration, to the contact of the air, to the state of repose, &c.; but J. Hunter and Hewson have demonstrated by experiments, that this phenomenon cannot be attributed to are a state of the air. nave genionstrated by experiments, that this phenome-non cannot be attributed to any of these causes. Hewson took fresh blood, and froze it, by exposing it to a low temperature. He afterward thawed it: the blood appeared fluid at first, and shortly afterward it coagulated as usual. An experiment of the same kind was made by J. Hunter, with a similar result. Thus, blood does not coagulate because it is cooled. It even appears that a temperature a little elevated is favourable to its coagulation. We also know by experience that the blood thickens when it is deprived of the contact of the air, and agitated; its coagulation is, how-ever, generally favoured by repose and the contact of

The elements of venous blood, such as we have noticed, are known by its analysis; but as all the mat-ters absorbed from the intestinal canal, the serous membranes, the cellular tissue, &c., are immediately mixed with the venous blood, the composition of this liquid must vary in proportion to the matter absorbed. There will be found in it, in different circustances, alkehol, ather, camphor, and salts, which it does not usually contain, &c., when these substances have been submitted to absorption in any part of the body

When, by the aid of a strong lens, or a microscope, we observe the transparent parts of cold-blooded animals, we see in the blood-vessels an immense multi-tude of small, rounded molecules, which swim in the serum, and roll upon each other, while they flow through the arteries and the veins

Similar observations have never been made upon the hot-blooded animals; the membranes and sides of the vessels being opaque. But as, in separating a group of blood in water, remaded particles are often seen with the nationscape, the existence of globules has been admitted for the blood of unimais, and con-

has been admitted for the blood of ammas, and consequently for that of man.

Authors have related marvellous things of these
globules. According to Leuvenhoeck, a thousand millions of those globules are not larger than a grain of
sand. Haller, in speaking of cold-blooded animals,
for he never could see those of hot blooded animals,
says, that they are to an inch as one inch is to five
theorem. Some will have them of the same form
and theservice and animals, others, on the contrary,
assect, that they have a particular form and size for
assect, that they have a claim that they are spierical ever a suns', some declare that they are spherical and sond, others that they are flattened, and

with a small hole in the centre; lastly, many believe of Materia Medica in the College of Physicians and that a globule is a species of small bladder, which con- | Surgeous of New-York, read the following letter to his tains a certain number of smaller globules.

tains a certain number of smaller globules.

Probably many errors of imagination and optical illusions, have slid into these different opinions. Dr. Magendie made a great number of microscopic experiments, in order to satisfy himself in this respect.

He has never seen, in the blood of man diluted in water, any thing but particles of colouring matter, generally rounded, of different sizes, which, according as they are placed exactly or not in the focus of the highest particles and the same of the property annear agrees. microscope, appear sometimes spherical, sometimes flat, and, at other times, of the figure of a disc, pierced in the centre. All these appearances, he says, can be produced at pleasure, by varying the position of the particles relatively to the instrument, and he believes that bubbles of air have often been described. and drawn for globules of blood; at least, nothing has and drawn to grounds of month a reason forms more resemblance to certain figures of Hewson, than very small bubbles of air that are produced by slightly agitating the liquid submitted to the microscope.

The latest and most accurate chemical analysis of

blood is as follows

The specific gravity of the serum is about 1.029, while that of blood itself is 1.058. It changes syrup of violets to a green, from its containing free soda. of violets to a green, from its containing free sount at 156° serum coagulates, and resembles boiled white of egg. When this coagulated albumen is squeezed, a muddy fluid exades, which has been called the seronsity. According to Berzelius, 1000 parts of the serum of bullock's blood consist of 905 water, 79.99 albumen, 6.175 lactate of soda and extractive matter, 2.565 mu-0.175 lateate or soda and extractive matter, 2305 minal matter, and 4.75 loss. 1000 parts of serum of human blood consist, by the same chemist, of 905 water, 80 albumen, 6 muriates of potassa and soda, 4 lateate of coda with animal matter, and 4.1 of soda, and phosphate of soda with animal matter. There is no gelatin in serum.

The cruor has a specific gravity of about 1.245. making a stream of water flow upon it till the water runs off colourless, it is separated into insoluble fibring and the soluble colouring matter. A little albumen has also been found in cruor. The proportions of the former two are, 64 colouring matter, and 36 fibrin in 100. To obtain the colouring matter pure, we mix the cruor with 4 parts of oil of vitriol previously diluted with 8 parts of water, and expose the mixture to a heat of about 160° for 5 or 6 hours. Filter the liquid meat or about 100° for 5 or 5 or 6 nours. Friter the fiquid while hot, and wash the residue with a few ounces of hot water. Evaporate the liquid to one-half, and add annuonia, till the acid be almost, but not entirely saturated. The colouring matter falls. Decant the supernatant liquid, filter and wash the residuum from the whole of the sulphate of annuonia. When it is well dealing regora, it with a plating blade and down well drained, remove it with a platina blade, and dry it in a capsule.

When solid, it appears of a black colour, but becomes wine-red by diffusion through water, in which, how-ever, it is not soluble. It has neither taste nor smell. ever, it is not soluble. It has neither taste nor smell. Alkohol and either convert it into an unpleasant smelling kind of adipocire. It is soluble both in alkalies and acids. It approaches to fibrin in its constitution, and contains iron in a peculiar state, \(\frac{1}{2}\) of a per cent. of the exide of which may be extracted from it by calcination. The incinerated colouring matter weighs 1-80th of the whole; and these ashes consist of 50 exide of iron, 7.5 subphosphate of iron, 6 phosphate of lime, with traces of magnesia, 20 pure lime, 16.5 carbonic acid and loss; or the two latter ingredients may be reckoned 32 carbonate of lime. Berzeiius imagines that none of these bodies existed in the colouring matter, but only their bases, iron, phosphorus, ing matter, but only their bases, iron, phosphorus, calcium, carbon, &cc.; and that they were formed during the incineration. From the albumen of blood, the same proportion of ashes may be obtained, but no

The importance of the blood is very considerable; The importance of the blood is very considerable; it distends the cavities of the heart and blood vessels, and prevents them from collapsing; it stimulates to contraction the cavities of the heart and vessels, by which means the circulation of the blood is performed; it generates within itself animal heat, which it propagates throughout the body; it nourishes the whole body; and, lastly, it is that source from which every secretion of the body is separated.

[In the winter of 1824–5, Dr. Mitchill, then Professor 1836]

Surgeons of New-York, read the following letter to his class, while speaking on the operation of remedies, and their effects upon the blood.

Dr. Akerly to Dr. Samuel L. Mitchill, Professor, &c.

Dear Sir .- While speaking on the operation of remedies, it reminds me of an occurrence which took place in 1819, connected with this subject. A man called on me in the summer of that year, stating that he had fallen in the street in a fit, from which having recovered he requested to be bled to relieve his head, as from the distress there he was apprehensive of another. Mr. Knapp having just commenced the study of medi-cine with me, I desired him to take a stick and stir the cone with the, I desired thin to take a stick and stiff the blood to collect the fibrin, and to show him that the blood would not coagulate after being deprived of it. His attention as soon as he began to stif the blood was attracted by the strong smell of spirituous liquor arising from it. We both satisfied ourselves that the alkoholic odour actually arise from the blood, and actions are the control of the character and habits of the man, and ascertained that he was a great lover of ardent spirits, and daily drank a quart or more by small glasses. This appeared to me a case in which the fluid taken into the stomach reached the blood vessels without change, and as it may throw some light on the operation of remedies upon the human consti-tution, I communicate the fact for your considera-

tion. A.]
Blood, dragon's. See Calamus rotang.
Rlood, spitting of. See Homoptysis.
Blood, comiting of. See Homatemesis.
Blood, comiting of. Comments this term is compre-

hended every artificial discharge of blood made with a view to cure or prevent a disease. Blood-letting is divided into general and topical. As examples of the former, verasection and arteriotomy may be mentioned; and of the latter, the application of lecches,

cupping-glasses, and scarification.

[BLOOD-ROOT. "This is an indigenous article, derived from the Sunguinaria Canadensis, one of our earliest flowering plants, common in woods in various parts of the United States.

The root is brownish externally; but, when broken, emits a bright vermilion or orange-coloured juice. This root has a bitter taste, leaving a sense of acrimony in the throat when swallowed. Besides fibrous matter, it contains resin, fæcula, bitter extractive, and an acrid

principle.

The medicinal properties of blood-root are those of an acrid narcotic. When taken in a large does, it irritates the fauces, leaving a disagreeable sensation in the throat for some time after it is swallowed. In occasions heartburn, nausen, fainting, and frequently vertigo, and diminished vision. It also vomits; but in verige, and minimisted vision. It also voints, but it his operation it is less certain than many other emetics in common use. When given in smaller doses, such as produce nausea without vomiting, and repeated at frequent intervals, it lessens the frequency of the pulse in a manner somewhat analagous to the operation of digitals. This, however, is a secondary effect, since, in its primary operation, it seems to accelerate the circulation. In still smaller doses, such as do not disturb the stomach, it has required some reputation as a tonic. It has been given in phthisis, both as a preventive in the early symptoms and as a palliative in the con-firmed disease; also in catarrh, typhoid pneumonia, dyspepsia and various other complaints; in which, however, its use should not exclude the employment of more active means. It should be dried a short time before it is to be used, as the virtues are much impaired

From ten to twenty grains ordinarily produce vomiting. Many country physicians prefer an infusion made with a drachm of the powder to a gill of water, of which a table spoonful may be repeated till the effect of the medicine is obtained. As a tonic, the tincture is more frequently used."—See Big. Mat. Med. A.1

Blood-stone. See Hematites, and Calcedony. Bloody flux. See Dysenteria. BLOWPIPE. A very simple and useful instru

BLOWPIPE. A very simple and useful instrument.

That used by the anatomist is made of silver or brass,

The chemical blowpipe is made of brass, is of about one-eighth of an inch diameter at one end, and the other tapering to a much less size, with a very small perforation for the wind to escape. The smaller end

is beycled on one side [BLUE IRON EARTH. This is the earthy phosphate of iron of some mineralogists. "The original colour of this variety is generally grayish, yellowish, or greenish white, or with a very slight tinge of blue; but by greenish write, or with a very sight ingeof inder to or exposure to the air it absorbs oxygen, becomes indigo blue of different shades, sometimes pale. It is sometimes in small masses, considerably compact and solid, but more frequently it is friable, or even loose, and soils the fingers. It is often a mere coat

Before the blowpipe it becomes reddish-brown, and Before the biowpipe it becomes redusin-prown, and then melts into a magnetic, blackish globule. In oil it usually acquires a shade of brown. A specimen yielded klaproth iron slightly oxidated 47.5, phosphoric acid 32.0, water 20.0; = 99.5. But the proportion of acid appears to be extremely variable in different specimens. This mineral is sometimes employed with advantage as a pigment. It has been found in Maine and Massa-

as a pignent. That been found in wann and whasachusetts, but principally in New-Jersey. It generally accompanies bog ore, or certain argillaceous deposites. It is sometimes in masses weighing 30ths, or more, with a texture more or less compact and solid. When first obtained it is yellowish white; but by exposure to the air, it assumes a fine blue colour. In some in-

the air, it assumes a line blue colour. In some instances it appears to contain very little phosphoric acid.—See (1. Min. A.]
BLUE, PRUSSIAN. A combination of oxide of iron with the ferro-prussic acid.
BLUE, SAXON. Made by digesting sulphuric acid and water, on powdered indigo.
BO'A. (From Bous, an ox.) 1. A pustulous eruption like the small-pox, so called because it was cured, seconding to Pline, by amounting it with het ox-dure.

according to Pliny, by anointing it with hot ex-dung.

2. The name of a genus of serpents.

Boche'tum. Decoctum secundarium. A decoction of the woods prepared by a second boiling with fresh water.

BO'CHIA. A subliming vessel.
BO'CHIUM. A swelling of the bronchial glands.
BODY. Whatever is capable of acting on our senses

may be so denominated. Bodies in Natural Philosophy are divided into Pon-

derable and Imponderable.

The first are those which may act upon several of our senses, and of which the existence is sufficiently established; of this kind are solids, fluids, and gases. The second are those which, in general, only act on one of our senses, the existence of which is by no marked.

of the size of a common probe, or larger, to inflate vessels and other parts.

The chemical blowpipe is made of brass, is of about one-eighth of an inch diameter at one end, and the

general properties, and likewise with particular or secondary properties.

The general properties of bodies are,—extent, divisibility, impenerability, mobility. A ponderable body, of whatever kind, always presents these four properties combined. Secondary properties are variously distributed among different bodies; as hardness, porosity, elasticity, fluidity, &c. They constitute, by their combination with the general properties, the condition or state of bodies. It is by gaining or losing some of these secondary properties that bodies change their state: for instance, water may appear under the form of ice, of a fluid, or of vapour, although it is always the same body. To present itself successively under these three forms, nothing more is necessary than the addition or abstraction of some of its secondary qualities. The general properties of bodies are, extent, divi-

Bodies are simple, or compound.
Simple bodies are rarely met with in nature; they are almost always the product of art, and we even name them simple, only because art has not arrived at their decomposition. At present, the bodies regarded as simple are the following:—Oxygen, chlorine, iodine, fluorine, sulphur, hydrogen, boracium, carbon, phos-phorus, azote, silicium, zirconium, aluminum, yttrium, glucinum, magnesium, calcium, strontium, barium, sodium, potassium, manganese, zinc, iron, tin, arsenie, molybdenum, chromium, tungsten, columbium, antimony, uranium, cerium, cobalt, titanium, bismuth, copper, teilurium, nickel, lead, unercury, osmium, silver, rhodium, palladium, gold, platinum, iridium, selenium, lithium, thorenum, wood, anium, cadmium.

Compound bodies occur every where; the form sodium, potassium, manganese, zinc, iron, tin, arsenic,

the mass of the globe, and that of all the beings which the mass of the globe, and that of an the beings which are seen on its surface. Certain bodies have a constant composition; that is to say, a composition that never is changed, at least from accidental circumstances: there are, on the contrary, bodies, the composition of which is changed at every instant.

This diversity of bodies is extremely important; it First diversity of bodies is extended important; divides them naturally into two classes; bodies, the composition of which is constant, are named brute, or gross, inert, inorganic; but those, the elements of which continually vary, are called living, organized

Brute and organized bodies differ from each other in respect, 1st, of form; 2d, of composition; 3d, of the laws which regulate their changes of state. The following table presents the differences which are best

#### TABLE I.

### DIFFERENCES BETWEEN INORGANIC AND LIVING BODIES.

Angular form. Inorganie Indeterminate Volume. Rodies.

1. Form.

Rounded form.
Determinate Volume.

Never simple.

the whole.

2. Composition

Inorganic Bodies.

Sometimes simple. Seldom of more than 3 elements. Constant. Each part capable of existing, independent of the others. Capable of being decomposed and recomposed.

Living

Living

3. Regulating Laws.

Inorganic { Entirely subject to attraction, and che-Bodies. } mical affinity.

(In part subject to attraction and chemical affinity.

In part subject to a power unknown.

incapable of recomposition.

At least 4 elements, often 8 or 10. Variable.

Each part more or less depending on

Capable of decomposition, but totally

Living bodies are divided into two classes, one of which comprehends Vegetables, the other Animals.

## TABLE II.

# DIFFERENCES BETWEEN VEGETABLES AND ANIMALS.

Vegetables,

Are fixed to the ground.

Have carbon for the principal base of their composition. Composed of four or five elements

Find and assume in their vicinity their nourishment in

Are nourished by tubes opening externally.

Animals,

Move on the surface of the ground. Have azot for the base of their composition.

Often composed of eight or ten elements Muse act on their aliments, in order to render them fit for noun-liment.

Are nomished by an internal canal.

EUG

In Anatomy. The human body is divided by anatomists into the trunk and extremities: i. s. the head and inferior and superior extremities, each of which have certain regions before any part is removed, by which the physician is enabled to direct the applica-tion of blisters and the like, and the situation of dis-

eases is better described.

The head is distinguished into the hairy part and the The head is distinguished into the hairy part and the face. The former has five regions, viz. the crown of the head or vertex, the fore-part of the head or sinciput, the hind-part or occiput, and the sides, partes laterales capitis. In the latter are distinguished, the region of the forehead, from; temples, or tempora; the nose, or nasus; the eyes, or couli; the mouth, or os; the cheeks, bucca; the chin, or mentum; and the Parts or area. ears, or aures.

The trunk is distinguished into three principal parts, The neck, thorax, and abdomen. The neck is divided into the anterior region or pars antica, in which, in men, is an eminence called ponum. Adam; the posterior region is called nucha colli; and the lateral re-

gions, partes laterales colli.

The thorax is distinguished into the anterior region. in which are the sternum and mamme, and at the inferior part of which is a pit or hollow called scrobiculus cordis; a posterior region, called dorsum; and

sides, or latera thoracis

The abdomen is distinguished into an anterior re-The abdomen is distinguished into an anterior region, properly the abdomen; a posterior region, called the loins, or lumbi; and lateral regions or flunks, called latera abdominis. The anterior region of the abdomen being very extensive, is subdivided into the epigastric, hypochondriae, umbilical, and hypogastric regions, which are described under their respective names. Immediately below the abdomen is the monst veneris, and at its sides the groins or inguina. The space between the organs of generation and the anus, or fundament, is called the permanum.

The superior extremity is distinguished into the shoulder, summitas humeri, under which is the arm-pi.

called azilla or forea azillaris; the brachium, or arm; the antibrachium, or forearm, in which anteriorly is the bend of the arm, where the veins are generally opened, called flexura antibrachit; and posteriorly the elbow, called angulus cubit; and the hand, in which are the carpus or wrist, the back or dorsum manus, and the palm or vola.

The inferior extremity is divided into, 1. the region of the femur, in which is distinguished the coza or regio-ischiadica, forming the outer and superior part;

2. the leg, in which are the knee or genu, the head or cavum poplitis, and the calf or sura · 3. the foot, in which are the outer and inner ankle, or malleolus externus and internus, the back or dorsum, and the sole or planta.

BODY, COMBUSTIBLE. This term is given by che-EONY, COMBUSTIBLE. This term is given by chemists to all substances which, on account of their affinity for oxygen, are capable of burning.

BODY, GARROUS. See Gas.

BODY, ARECUS. See Gas.

BODY, INFLAMMABLE. Chemists give this name to such bodies as burn with facility, and flame in an increased temperature, although, strictly speaking, all combustible bodies are inflammable bodies; "qch are

the diamond, sulphur, bitumens, &c.

Body, Prosphorescent. Bodies which produce light, though their temperature be not increased.

ngnt, mough their temperature be not increased.

Bo's. (From Boas, to exclaim.) Clamour, or moaning made by a sick person.

BOERHAAVE, HERMAN, was born at Voorhout, in Holland, December 31, 1668. His father, the pastor of the village, having nine children, educated them himself, and intending Herman for the church, was careful to ground him well in the learned languages; in which he made such rapid, progress, that he was in which he made such rapid progress, that he was sent at 14 to Leyden. His tather dying soon after in slender circumstances, he was fortunately supported by the burgomaster, Daniel Van Alphin; which Boerhaave ever remembered with gratitude. Among other tudies he was never next all to the mathematics and studies, he was very partial to the mathematics, and studies, he was very partial to the mathematics, and improved so much, as to be able to give private instructions in them, whereby he partly maintained himself: In 1690, he took his degree in philosophy, and in an imagural thesis refuted the crors of the materialists. But he soon after turned his mind to the study of medicine, and attended dissections under Nuck; he greatly preferred Hippocrates among the ancient, and Sydenham among the modern physi-

clans. He was made doctor of medicine at Harderwyck, in 1693; and in his dissertation on that occasion, in sisted on the utility of observing the excretions in disease, especially the urine. He was then engaged in disease, especially the urine. He was then engaged in forming a new theory of medicine, by a judicious selection from all that had been before advanced; which was so well arranged, and so ably supported by him, that it became generally adopted, and prevailed throughout Europe for more than half a century. He also gave lectures on chemistry, with considerable re-putation, about the same period. The university of Leyden therefore appointed him, in 1701, professor of the theory of medicine; when he read an oration re-commending the study of Hippocrates; and, as he declined some very advantageous offers from other parts, chined some very advantageous oners from other parts, they afterward augmented his safary. About this time, he published another Latin oration, "On the Use of mechanical Reasoning in Medicine," which contributed to extend his fame. In 1709, he was appointed professor of botany, to which study he was ever after eminently attached. On that occasion, he produced another oration, maintaining that medicine would be best improved by observation, and by simplicity in prescriptions. His "Aphorisms," had apparetty in prescriptions. His "Aphorisms," had ap-peared the year before, giving a brief account of the history and care of diseases, a work universally ad-mired; to which his pupil Van Swieten afterward at-tached a very ample commentary. About the same time he published his "Institutes," treating of physi-ology. These two works, with successive improveology. These two works, with successive improvements, passed through numerous editions, and were translated into every European, nay, even into the Arabic language. In the year after, he printed a catalogue of the plants in the university garden. In 1714, he was made rector of the university, and at the end of the year for which he held the office, delivered a discourse "On attaining Certainty in Physics." About this period he was made professor of the practice of medicine, and in 1718, of chemistry also. His lectures on these subjects, and on botany, were delivered with such clearness and precision, that were delivered with such clearness and precision, that students thronged from every part to hear him; insomuch that Leyden could scarcely afford accommodations for them. He was also often consulted in difficult cases by physicians even in distant parts of the world. When appointed to the chemical chair, he had published a short work on that subject, but some of his pupils having printed his lectures without authority, and very incorrectly, he was led to prepare them for the press in 1732. In his conversation, Boerhaave was generally familiar, in his demeanour grave, but disposed to occasional pleasantry: he was distinguished for piety, and on his moral character, his disciple Haller has passed a very high enloquim. Having acquired considerable wealth by his exertions, and being plain in his dress, as well as abstentious in his diet, he was by some accused of parsimony: but he spared no reasonable expense in procuring rare books, and foreign plants. Being of a vigorous constitution, and accustomed to much exercise abroad, he met with little interruption from illness; but in 1729, having become corpulent, and incapable of riding, his health began to suffer, and he was induced to resign his botanical and suffer, and he was finduced to resign his botanica; and chemical appointments. In an oration then delivered, he recounted the chief events of his life, expressing himself grateful for the patronage which he had received from individuals; as well as to his own profession, for the little opposition shown to his opinions. it perhaps never induced that so great a revolution in science was so readily brought about. The great reputation acquired by his extensive abilities, and the reputation acquired by his extensive abilities, and the moderation of his character, particularly averse from contention, no doubt combinated materially to this result. In the year following, he was again made rector of the university of Leyden; and also elected a fellow of the Royal Society in London, having been previously admitted to the Royal Academy of Sciences in Parts. The remainder of his life was reheafly occurried in revising his own numerous tracking. pied in revising his own numerous productions, in publishing more correct editions of several esteemed authors, and in domestic recreations at his seat near Leyden, with his wife and daughter. Toward the end 1737, he was attacked with symptoms of disease in the chest, which terminated his existence in the Sentember following His fellow citizens erected an ele-gant monument to his memory. BOETHE'MA. (From ροηθεω, to assist.) A remedy

BOETHEMA'TICA. (From βοηθεω, to assist.) Fa- ! vourable symptoms.

See Menyanthes trifoliata.

Bo of a Genant Gamboge.

Bo file A. See Thea.

BOHN, Jons, was born at Leipsic, in 1640; and after studying in many parts of Europe, graduated there, and was made successively professor of anatothere, and was made successively processor of anno-my, and of the apentics, public physician to the city, &c. Among numerous publications, he chiefly distin-guished himself by his "Circulus anatomico physio-logicus," and a treatise "De officio medici clinico et forensi," which latter particularly has great merit. He also well explained the judgment to be formed concerning wounds; and recommended purging with calomel in the beginning of small-pox. He died in 1718.

Bois de coissi. See Quassia. Bolar carths. See Bolc.

BOLE, βωλος, a mass.) in chemistry, is a massive mineral, having a perfectly conchoidal fracture, a glimmering internal lustre, and a shining streak. Its colours are yellow-red, and brownish-black, when it is called mountain soap. It is translucent or opaque. Soft, so as to be easily cut, and to yield to the nail. It adheres to the tongue, has a greasy feel, and falls to pieces in water. Sp. grav. 1.4 to 2. It may be polished. If it be immersed in water after it is dried, it Its lied. If it be immersed in water are it is ured, it falls as under with a cracking noise. It occurs in wacke and basalt, in Silesta, Hessia, and Sienna in Italy, and also in the clifts of the Graat's Causeway, Ireland. The black variety is found in the trap rocks of the isle of Sky. Several compounds were formerly the Armonium and used in medicine, particularly the Armenian and French; and in old pharmacoperas mention is made of red boles from Armenia, Lemnos, Strigonium, Porof red boies from Armenia, Lemnos, Strigonium, For-tugal, Tuscany, and Livonia; yellow boles from Ar-menia, Tockay, Sitesia, Bohemia, and Blois; white boles from Armenia, Lemnos, Nocera, Eretria, La-mos, Chio, Malia, Tuscany, and Golbberg. Several of these earths have been commonly made into little cakes or flat masses, and stamped with certain impressions; from which circumstance they received the name of terra sugillata, or sealed earths.

Bole, Armenian. Bolus Armenia. Bole arme-

nic. A pale but bright red-coloured earth, which is occasionally mixed with honey, and applied to children's mouths when afflicted with aphthe. It forms, like all argillaceous earths, a good tooth-powder, when

mixed with some aromatic

mixed with some aromatic.

BOLETIC ACID. Acidum boleticum. An acid
extracted from the expressed juice of the Boletus
beaudo-igniarius, by M. Braconnot. The juice concentrated to a syrup by a very gentle heat, was acied
on by strong alkohol. What remained was dissolved
in water. When nitrate of lead was dropped into this
in water. solution, a white precipitate fell, which, after being well washed with water, was decomposed by a current of sulphuretted hydrogen gas. Two different acids were found in the liquid after filtration and evaporation. One in permanent crystals was boletic acid; the other was a small proportion of phosphoric acid. The former was purified by a solution in alkohol, and subsequent evaporation.
It consists of irregular four-sided prisms, of a white

colour, and permanent in the air. Its taste resembles cream of tartar; at the temperature of 680 it dissolves in 160 times its weight of water, and in 45 of alkohol.

Vegetable blues are reddened by it. Red oxide of iron, and the oxides of silver and mercury; are precipitated by it from their solutions in nitric acid; but lime and barytes waters are not affected. It sublimes when heated, in white vapours, and is condensed in a white powder—dam the Chimic lays.

Powder—Ann. de Chimie, IXXX.

BOLE TUS. (From βωλος, a mass, or βωλιτης, from is globular form.) The name of a genus of plants in the Linnean system. Class, Cryptogamia; Order, Fungi. Boletus; Spunk.

BOLETUS CERVI. The mushroom.

BOLETUS IGNIARIUS. The systematic name for the

agaricus of the pharmacopeias. Agaricus chirurgo agarouse on the parimacopouss. Agarous christofo-rum; Agaricus quercus; Fungus igniarius. Agaric of the oak; Touchwood boletus; Fennale agaric. This fungus Boletus:—acaulis pulvinatus levis, puris tensissims of Linnaus, has been much used by sur-geous as an external styptic. Though still employed on the continent, the surgeons in this country have not much confidence in it.

BOLETOS LARICIS. The systematic name for the officinal agariers albus, which is met with on old larch trees, in different parts of Europe. Several preparations, as troches, an extract, and pills, are ordered to be made with it in foreign pharmacopeias, which are administered against phthisical complaints.

BOLETUS PIMI LARICIS. A species of agaric which

grows on the larch.

BOLETUS SUAVEOLENS. The systematic name for the fungus salicis of the pharmacopeias. This species of fungus, Boletus—accounts superne lewis, saletbus, of Linneus, and the Boletus albus of Hudson, when fresh, has a suburinous smell, and at first an acid taste, followed by a bitter. It is seldom used at present, but was formerly given in phthisical com-

BOLI'SMUS. A voracious appetite, according to Avicenna, but most probably meant for bulinms. BOLOGNIAN STONE. A mixture of mucilage A mixture of mucilage

BOLOGNIAN STONE. A mixture of mucilage and powdered sulphate of baryta. [BOLOGNIAN PHOSPHORUS. When native sulphate of baryta is heated it decrepitates, and at a high temperature, fuses into an opaque white enamel: it was employed in the manafacture of Jasper ware by the tate Mr. Wedgewood. When heated to redness, it acquires the property of phosphorescence. This was first ascertained by Vincenzo Cascarioli, of Bologna, whence the term Bologna phosphorus is applied to it. This kind of phosphorus, after being exposed for a few minutes to the sunis rays, shinesin the dark sufficiently I'ms kind of phosphorus, after being exposed for a levil minutes to the sun's rays, shines in the dark sufficiently to render visible the dial of a watch. This prosperty is lost by repeated uses, in consequence of the oxygenation of the sulphur: but it may be restored by a second calcination.—See Webster's Man. of Chem. A.] BO'LUS. (Bolog, a bole, or bolus.) Any medicine, rolled round, that is larger than an ordinary sized

pea, and yet not too large to be swallowed.

pea, and yet not too large to be swanowed.

Bodds arnema. See Bole, Arnemian.

Bodds arnema alba. The white Atmenian bole.

Bodds arnema alba. The white Atmenian bole.

Bodds arnema. Bodds See Bole, Arnemian.

Bodds delica. French bole. A pale red-coloured bolar carth, variegated with irregular specks and veins of white and yellow. It is occasionally administered as an absorbent and antacid.

BOMBAN. See Gossypium.

BOMBIATE. Rombius. A salt formed by the union of the bombic acid with salifiable bases; thus,

bombiate of alumine, &c.

BO'MBIC ACID. Acidum bombicum. Acid of the silkworm. Silkworms contain, especially when in the state of chrysalis, an acid liquor in a reservoir placed near the anus. It is obtained by expressing their juice in a cloth, and precipitating the nucliage by spirit of wine, and likewise by infusing the chrysa-lides in that liquor. This acid is very penetrating, of a yellow amber colour, but its nature and combinations are not yet well known.

BO'MBUS. Βομδος. 1. A resounding noise, or

ringing of the ears.

A sonorous expulsion of flatus from the intestines.
 Dr. Good gives this name to that variety of ima-

3. Dr. Good gives this name to that variety of imaginary sound, parapsis illusoria, which is characterized by a dull, heavy, intermitting sound.

Bon Arbor. A name given to the coffee-tree.

Bo'NA. Boona. The phaseolus, or kidney-beans.

[BOND, Thomas, M.D. This celebrated physician and surgeon was a native of Maryland, and studied his and surgeon was a native of Maryland, and studied his profession there under Dr. Hamilton, a very learned practitioner. Afterward he travelled in Europe and spent a considerable time in Paris, where he attended the practice of the Hotel Dieu. He began the practice of medicine in Philadelphia about the year 1734, and soon attracted the public attention. He was the founder of the College and Academy, and one of the most active managers of the Pennsylvania Hospital, at its commencement. He was a contributor to some of its commencement. He was a contributor to some of the Medical Journals of Great Britain before the establishment of one in this country. In 1782 he dethe Medical Journals of Great Britain before the establishment of one in this country. In 1782 he de-livered the annual address before the American Philo-sophical Society. The subject was, "The rank and dignity of man in the scale of being, and the condignity of man in the scale of being, and the Con-veniences and advantages he derives from the Arts and Sciences, and the prognostic of the unceasing grandeur and glory of America, founded on the nature of its cli-mate." He was for half a century in the first practice in Philadelphia, and remarkable for attention to the

cases under his care, and his sound judgment. He together by means of their ligaments, it is called a died in the year 1784, aged 72.—See Thach. Med. natural skeleton.—The uses of the hones are various,

Biog. A.]
Bo NDUCH INDORUM. See Guidandina.
BONE. Os. Bones are hard, dry, and insensible parts of the body, of a whitish colour, and composed parts of the body of rectionar substance. They parts of the body, of a whitish colour, and composed of a spongy, compact, or recticular substance. They vary much in their appearances, some being long and hollow, others that and compact, &c. The greater number of bones have several processes and cavities, which are distinguished from their figure, situation, use, &c. Thus, processes extended from the end of a bone, if smooth and round, are called hearly, is called the next that the beneath the head, and which exceeds the rest of the bone in smallness and levely, is called the neck. Rough, unequal processes are called tubercostas, or tubercles but the longer and more acute, spinous, or slubid processes, from their resemblance to a thorn. Thin broad processes, with sharp extremities, are known by the name of crista, or sharp edges. Other processes are distinguished by their form, and called alar, or ptergoid; manuflary, or masticil; dentiform, or advantable, &c. Others, from their situation, are called supervox, infriring exercise, and interior. Some have their name from their distheir studium, are called superior, inferior, enterior, and interior. Some have their name from their direction; as obligue, straight, transcerse, &c.; and some from their use, as trocharters, rotatore, &c., Furrous, depressions, and cavities, are destined either for the reception of contiguous bones, to form an articulation with them, when they are called articular cavities, which are sometimes deeper, sometimes shallower; or they receive hard parts, but do not consti-Jower; or they receive hard parts, but do not constitute a joint with them. Cavrities serve also for the transmission and attachment of soft parts. Various names are given to them, according to the magnitude and figure of bones. If they be broad and large at the beginning, and not deep, but contracted at their ends, they are called forces, or pile. Furrows are open canals, extending longitudinally in the surface of bones. A hollow, circular tube, for the most part of the same diameter from beginning to end, and more or the same diameter from beginning to end, and more or less crossled or straight, longer short is symmetric agent. less crooked or straight, long or short, is named a canal Foruming are the apertures of canals, or they are formed of the excavated margins of two bones, placed against each other. If such be the form of the margin a bone, as if a portion were taken out of it, it is called a notch

called a noteh.

With respect to the formation of bone, there have been various opinious. Physiologists of the present day assert, that it is from a specific action of small arteries, by which ossite matter is separated from the blood, and deposited where it is required. The first thing observable in the embryo, where bone is to be founed, is a transparent jelly, which becomes gradually firmer, and is formed into cartilage. The cartilage gradually increases to a certain size, and when the process of ossification commences, vanishes as it advances. Cartilages, previous to the ossific action. Cartilages, previous to the ossific action, advances. Cartilages, previous to the ossific action, are solid, and without any cavity; but when the ossific action of the arteries is about to commence, the absorbents become very active, and form a small cavity in which the bony matter is deposited; bone continues to be separated, and the absorbents model the mass into its required shape. The process of ossification is extremely rapid in utero: it advances slowly after birth, and is not completed in the human body till about the twentieth year. Ossification in the flat bones, as the twentieth year. Ossification in the flat bones, as those of the skull, always begin from central points, and the radiated fibres meet the radio of other ossifying and the radiated interactive the radial of other obstyly points, or the edges of the adjoining bone. In long bones, as those of the arm and leg, the clavical, metacarpal, and metatarsal bones, a central ring is formed in the body of the bone, the head and extremities being cartilage, in the centre of which ossification-aflew-ward begins. The central ring of the body shoots its bony fibres towards the head and extremities, which extend towards the body of the bone. The head and extre mities at length come so close to the body as to be merely separated by a cartilage, which becomes gra-dually thinner until the twentieth year. Thick and round bones, as those of the tarsus, carpus, sterninn, and patella, are, at first, all cartilage: ossification begins in the centre of each. When the bones are deprived of their soft parts, and are long together in 2.45 soda, with a little common salt, their natural situation, by means of wire, the whole is About 1 30th of phosphate of magnesia was obtained termed an artificial skeleton; but when they are kept from the calcined bones of fowls, by Foureroy and

notional skeleton.—The uses of the bones are various, and are to be found in the account of each hone; it is, therefore, only necessary to observe, in this place, that they give shape to the body, contain and defend the viral viscera, and allord an attachment to fall the number of the contains and the contains and the number of the contains a second of the contains and the number of the contains and the number of the contains a second of the contains and the contains a second of the contains and the contains a second of the conta

| A Table of the Bones.   |   |   |
|---|---|---|
| No.   |   |   |
|   | (   | [Frontal 1  |
|   |   | Parietal 2  |
| Bones of the HEAD.  | Bones of the cranium                      | Cemporal 2  |
|   | or skull                                  | Temporal 2<br>Ethmojd 1   |
|   |   | Sphenoid 1  |
|   |   | Superior maxil 2  |
|   |   |   |
|   |   | Nasal   |
|   | Bones of the face                         |   |
|   | {   | Palatine 2<br>Inferior spongy 2   |
| Jo  |   | Vomer 1   |
| Bones   |   | Inferior maxil 1  |
|   |   | (Incisores 8  |
|   | Dentes or teeth                           | Cuspidati 4   |
|   | Bone of the tongue                        | ( Molares   |
|   |   | ( Malleus 2   |
|   | Bones of the car,                         | Incus   |
|   | within the temporal                       | Stapes 2  |
|   | Dolles                                    | (Orbiculare os 2  |
| K.  |   |   |
| I D   | S / Wartahrm                              | Cervical 7 Dorsal 12  |
| LR  | Vertebræ Dorsal Lumbar Sacrum             |   |
| le l  |   |   |
| Corpus or wrist   Carpus os   Carpus or wrist   Carpus os   Carpus os   Carpus or wrist   Carpus os   Carpus os |   | 1   |
|   |   | Sternum 1   |
| Jes   |   | ( Ribs 24   |
| The pelvisInnominata oss  |   | Innominata ossa 2   |
|   | The shoulder                              | Clavicle 2  |
| EM  |   | Scapula 2   |
| FR  | The arm                                   | ·Humeri os 9  |
| X   | The fore-arm                              | Humeri os   |
| Y I   |   | Radius 2<br>Naviculare os 2   |
| E   |   | Lunare os 2   |
| J.P.  |   | Cuneiforme os 2   |
| 6   | . Carpus or wrist                         | Orbiculare os 2   |
| S   | pu lu | Trapezium os 2  |
| of  | 2   | Trapezoides os 2<br>Magnum os 2   |
| les   | l pe                                      | Unciforme os 2  |
| 301   | H Metacarpus                              | 10  |
|   | Phalanges                                 |   |
| 23  | (The thigh                                | .Femur 2  |
| XI  |   | (Patella 2  |
| E.  | The leg                                   | Tibia 2   |
| MO  |   | Fibula 2  |
| T   |   | Calcaneus 2   |
| the Low. ExTR.  | Jarsus or instep {                        | Tibia 2 Fibula 2 Calcaneus 2 Astragalus 2 Cuboides os 2 Naviculare os 2 |
| JJC   | co l                                      | Naviculare os 2   |
| Sa  | 2   | Cuneiformia ossa 6  |
| 0   | Aletatarsus                               | 10  |
| B   | Phalanges                                 | 28  |
| Sesamoid bones of the thumb and great toe,  |   |   |
| occasionally found 8  |   |   |
|   |   |   |

Calcined human bones, according to Berzelius, are composed, in 100 parts, of 81.9 phosphate of inne, 3 thate of line, 10 line, 1.1 phosphate of magnesia, 2 soda, and 2 carbonic acid. 100 parts of bones by calcination are reduced to 63. Foureray and Vauquelin found the following to be the composition of 100 parts of ox hones: 51 solid gelatin, 37.7 phosphate of line, 10 carbonate of line, and 1.3 phosphate of magnesia; but Berzelius gives the following as their constituents: 3.3 cartilage, 55 35 phosphate of line, 3 fluate of line, 3.85 carbonate of line, 2.95 phosphate of magnesia, and 2.45 soda, with a little common salt.

Vauquelin. When the enamel of teeth, rasped down, should fit very tight, so that the heat may be greater Vauquein. When the enamel of teem, mapes with a dissolved in muriatic acid, it leaves no albumen, like the other bones. Foureroy and Vauquein state its components to be 27.1 gelatin and water, 72.9 phosthe other bones. Fourcroy and Vauquelin state its components to be, 27.1 gelatin and water, 72.9 phosphate of lime. Messrs. Hatchert and Fepys rate its composition at 78 phosphate of lime, 6 carbonate of lime, and 16 water and loss. Berzelius, on the other hand, found only 2 per cent. of combustible matter in teeth. The teeth of adults, by Mr. Pepys, consist of 64 phosphate of lime, 6 carbonate of lime, 20 cartilage, and 10 water or loss. The fossil bones of Gibraltar are composed of phosphate of lime and carbonate, like hurnt banes. Much difference of ontinion crists with burnt bones. Much difference of opinion exists with regard to the existence of fluoric acid in the teeth of animals; some of the most eminent chemists taking opposite sides of the question. It appears that bones buried for many centuries still retain their albumen, with very little diminution of its quantity.

Fourcroy and Vauquelin discovered phosphate of magnesia in all the bones they examined, except human bones. The bones of the horse and sheep afford about 1-36th of phosphate of magnesia; those of fish nearly the same quantity as those of the ox. They account for this by observing, that phosphate of magnesia is found in the urine of man, but not in that of animals, though both equally take in a portion of mag-

nesia with their food.

The experiments of Mr. Hatchett show, that the membranous or cartilaginous substance, which retains the earthy salts within its interstices, and appears to determine the shape of the bone, is albumen. Mr. Hatchett observes, that the enamel of tooth is analogous to the porcellaneous shells, while mother of pearl approaches in its nature to true bone.

A curious phenomenon with respect to bones is the circumstance of their acquiring a red tinge, when madder is given to animals with their food. The bones of young pigeons will thus be tinged of a rose colour in twenty-four hours, and of a deep scarlet in three days; but the bones of adult animals will be a fortnight in acquiring a rose colour. The bones most remote from the heart are the longest in acquiring this tinge. Gibson informs us, that extract of logwood too, in considerable quantity, will tinge the bones of young pigeons purple. On desisting from the use of this food, lowever, the colouring matter is again taken up into the circulation, and carried off, the bones regaining their natural hue in a short time. It was said by Du Hamel, that the bones would become coloured and colourless in concentric layers, if an animal were fed colourless in concentric layers, it an animal were red alternately one week with madder, and one week without; and hence he inferred, that the bones were formed in the same manner as the woody parts of trees. But he was mistaken in the fact; and indeed had it been true, with the inference he naturally draws from it, the bones of animals must have been out of all proportion larger than they are at present.

proportion larger than they are at present.

Bones are of extensive use in the arts. In their natural state, or dyed of various colours, they are made into handles of knives and forks, and numerous articles of turnery. We have already noticed the manufacture of volatile alkali from bones, the coal of which they have already noticed the manufacture of volatile alkali from bones, the coal of which forms bone-black; or, if they be afterward calsined to whiteness in the open air, they constitute the bone ashes of which cupels are made, and which, finely levigated, are used for cleaning articles of paste, and some other trinktes, by the name of burnt hartshorn. The shavings of hertshorn, which is a species of bone, afford an elegant jelly; and the shavings of other bones, of which those of the calf are the best, are

often employed in their stead.

On this principle, Mr. Proust has recommended an economical use of bones, particularly with a view to improve the subsistence of the soldier. He first chops them into small pieces, throws them into a kettle of boiling water, and lets them boil about a quarter of an hour. When this has stood till it is cold, a quantity of fat, excellent for culinary purposes when fresh, and at any time it for making candles, may be taken off the liquor. This, in some instances, amounted to an eighth, and in others even to a fourth, of the weight of the bones. After this the bones may be ground, and boiled in eight or ten times their weight of water, of which that already used may form a part, till about half is wasted, when a very nutritious jelly will be obtained. The botter should not be of copper, as this metal is easily dissolved by the jelly; and the cover should it very ught, so that the near they be ground than that of holong water, but not equal to that of Papin's digester, which would give it an empyreuma. The bones of meat that have been boiled are nearly as productive as fresh bones; but Dr. Young found those of meat that had been roasted afforded no jelly, at least by simmering, or gentle boiling.

Bones, growth of. See Osteogeny. BONEBINDER. See Osteocolla.

BONEHINDER. See Ostcocolla.

[BONEST. Thoroughwort. Eupatorium perfoliatum. This is an indigenous vegetable, growing in wet meadows throughout the United States. The whole plant is medicinal, but the leaves and flowers are most active. See Eupatorium perfoliatum. A.]

BONET, Theophiles, was born at Geneva in 1620, and graduated at Bologna. He had considerable practice, and was extremely zealous in the pursuit of morbid anatomy, as well as in extracting valuable observations from authors. His hearing becoming impaired, he devoted the latter part of his life to the arrangement of the materials which he had prenared. His princiof the materials which he had prepared. His princi-pal work, entitled "Sepulchretum," published 1679, was highly approved: and laid the foundation of Morgagni's excellent treatise, "De Sedibus et Causis Mor-borum," Another publication of his "Mercurius comborum." Another publication of his, "Mercurius com-pilatitius," is an index of medical literature to the time of its appearance, 1682. His death occurred seven years after.

BONONIE'NSIS LAPIS. The Bononian stone. Called also phosphorus bononiensis, phosphorus kircheri, the light carrier, or Bononian phosphorus. As a medicine,

the stone is caustic and emetic

BONTIUS, JAMES, was born at Leyden, where he studied medicine, and then went to practice in India. After his return, he wrote several valuable works on the diseases and practice of that country, as well as on its natural productions, animal and vegetable. The most esteemed is entitled "De Medicina Indorum," and appeared in 1642.

BO'NUS. Good. A term applied to plants, and

remedies from their supposed efficacy.

Bonus henricus. (Henricus; so called, because its virtues were detected by some one whose name was Henry.) See Chenopodium bonus Henricus.

BONY. Osseus. Of, or belonging to, or resembling

BORACIC ACID. Acidum boracicum. Sedative salt of Homberg. Acid of Borax. Boracine acid. "The salt composed of this acid and soda had long been used both in medicine and the arts under the name of borax, when Homberg first obtained the acid." name of norax, when Homberg rist obtained the acid separate in 1702, by distilling a mixture of borax and sulphate of iron. He supposed, however, that it was a product of the latter; and gave it the name of reda-tile nareatic salt of citriol, or sedative salt. Lemery the younger, soon after discovered that it could be ob-tained from horax canally by means of the viries or tained from borax equally by means of the nitric or muniatic acid; Geofficy detected soda in borax; and at length Baron proved, by a number of experiments, that borax is a compound of soda and a peculiar acid. Cadet has disputed this; but he has merely shown, that the borax of the shops is frequently contaminated with copper; and Struve and Exchaquet have endeavoured to prove that the boracic and phosphoric acids are the same; yet their experiments only show, that they resemble each other in certain respects, not in all.

To procure the acid, dissolve borax in hot water, and filter the solution, then add sulphuric acid by little and little, till the liquid has a sensibly acid taste. Lay it aside to cool, and a great number of small shining laminated crystals will form. These are the boracic acid. They are to be washed with cold water, and

drained upon brown paper.

Boracic acid thus procured is in the form of thin irregular hexagonal scales, of a silvery whiteness, having some resemblance to spermaceti, and the same having some resemblance to spermaced, and the same kind of greasy feel. It has a sourish taste at first, then makes a bitterish cooling impression, and at last leaves an agreeable sweetness. Pressed between the teeth, it is not brittle but ductile. It has no smell; but, when sulphuric acid is pouned on it, a transient odour of musk is produced. Its specific gravity in the form of scales is 1.479; after it has been fused, 1.803. It is not aftered by held. Exposed to the fire it swells up, from losing its water of crystallization, and in this state is called calcined boracic acid. It melts a little-before it is red hot, without overcotlibly losing amounts. before it is red hot, without perceptibly losing any

BOR

water, but it does not flow freely till it is red, and then the native mannesin-calcareous borate of Kalkberg, less than the borate of sodia. After this fusion it is near Luneraburg: the seurgleistern of the Gennans, a hard transparent glass, becoming a little spaque on their generic of various mineralogists, and boractic of less than the borate of soda. After this fusion it is a hard transparent glass, becoming a little opaque on

a hard transparent glass, becoming a little opaque on exposure to the air, without abstracting moistner from it, and unattered in its properties, for on being dis-solved in boiling water it crystallizes as before. This glass is used in the composition of false genes. Boiling water scarcely dissolves one-fiftieth part, and cold water much less. When this solution is cha-tilled in close vessels, part of the and rises with the water, and crystallizes in the receiver. It is more solu-ble in alkohol, and alkohol containing it burns with a green flame, as does naper direct water, and green flame, as does paper dipped in a solution of

horacic acid.

Neither oxygen gas, nor the simple combustibles, nor the common metals, produce any change upon boracic acid, as far as is at present known. If mixed with finely powdered charcard, it is nevertheless capable of vitrification; and with soot it meits into a black bitumen-like mass, which however is soluble. in water, and cannot easily be burned to ashes, but subin water, and cannot easily be burned to ashes, but sub-limes in part. With the assistance of a distilling near it dissolves in oils, especially mineral oils; and with these it yields fluid and solid products, which impart a green colour to spirit of wine. When rubbed with phosphorus it does not prevent its inflammation, but an earthy yellow matter is let behind. It is hardly capable of oxiding or dissolving any of the metals excapable of oxiding or dissolving any of the metals except iron and zine, and perhaps copper; but it combines with most of the metallic oxides, as it does with the alkalies, and probably with all the earths, though the greater part of its combinations have hitherto been little examined. It is of great use in analyzing stones that contain a fixed alkali.

ctones that contain a fixed alkali.

Crystallized boracic acid is a compound of 57 parts of acid and 43 of water. The honour of discovering the radical of boracic acid, is divided between Sir II.

Davy and Gay Lussac and Thenard. The first, on applying his powerful voltaic battery to it, obtained a chocolate-coloured body in small quantity; but the two latter chemists, by acting on it with potassitus in equal quantities, at a low red-heat, fortical borons and sub-borate of potass. For a small experiment, a glass tube will serve, but on a greater scale a copper tube is to be preferred. The potassium and boracic acid, perfectly dry, should be intimately mixed before exposing them to heat. On withdrawing the tube from the fire. fectly dry, should be intimately mixed before exposing them to heat. On withdrawing the tube from the fire, allowing it to cool, and removing the cork which loosely closed its mouth, we then pour successive portions of water into it, till we detach or dissolve the whole matter. The water ought to be heated each time. The whole collected liquids are allowed to settle; when, after washing the precipitate till the liquid ceases to affect syrup of violets, we dry the berom in a capsule, and then put it into a phial out of contact of air. Boron is solid, tasteless, inodorous, and of a greenish-brown colour. Its specific gravity is somewhat greater than water. The prime equivalent of boracic acid has been inferred from the borae of ammonia, to be about 2.7 or 2.8; oxygen being 1.0; and it probably consists of 2.0 of oxygen + 0.8 of boron. But by Gay Lussac and Thenard, the proportions would be 2 of boron to 1 of oxygen.

The boracic acid has a more powerful attraction for

The boracic acid has a more powerful attraction for The boracic acid has a more powerful attraction for lime than for any other of the bases, though it does not readily form borace of lime by adding a solution of to lime water, or decomposing by lime water the soluble alkaline borates. In either case an insipid white powder, nearly insoluble, which is the borate of lime, is, however, precipitated. The borate of barytes is likewise an insoluble, tasteless, white powder. Bergman has observed, that magnesia, thrown by little and little into a solution of boracic acid, dissolved

slowly, and the liquor on evaporation afforded granuslowly, and the liquor on evaporation afforded granulated crystals, without any regular form: that these crystals were fusible in the fire without being decomposed; but that alkohol was sufficient to separate the horacic acid from the magnesia. If, however, some of the soluble magnesian saits be decomposed by alkaline borates in a state of solution, an insipid and insoluble borate of magnesia is thrown down. It is probable, therefore, that Bergman's salt was a borate of magnesia dissolved in an excess of boracic acid; which acid being taken up by the alkohol, the true horate of magnesia was precipitated in a white powder, and mistaken by him for magnesia.

One of the best known combinations of this acid is

The horate of potesse is but little known, though it is stid to be capable of supplying the place of that of soda in the arts: but more direct experiments are required to establish this effect. Like that, it is capable of existing in two states, neutral and with excess of base, but it is not so crystallizable, and assumes the form of parallelolopeds.

With soda this beauting and by more the life in the capability of the control of the control of the capability of the control of the capability of the capability

With soda the bouncie acid forms two different salts. One, in which the alkali is more than triple the quantity more sany to samuate the acid, is of considerable use in the arts, and last long be a known by the name of borns; under which its history and an account of its properties will be given. The other is a neutral salt, not changing the syrup of violets recen like the borate with excess of base; differing from it in taste and solicitivity; crystallizing neutriers so reality, nor in the same manner; not efflorescent like it; but, like it, fusible into a glass, and capable of being employed for the same purposes. This salt may be formed by saturating the superabundant soda in horax with some other acid, and then separating the two salts; but it is obviously more eligible to saturate the excess of soda with an additional position of the boracic acid itself. With sada the horacic acid forms two different salts. with an additional portion of the boracic acid itself.

Royale of automore about in small rhomboidal crystals, easily decomposed by fire; or in scales, of a pungent urinous taste, which lose the crystalline form, and grow brown on exposure to the air.

It is very difficult to combine the boracic acid with

alumina, at least in the direct way.

The boracic acid unites with siles by fusion, and The boracic acid unites with effect by juston, and forms with it a selid and permanent vitrous compound. This borate of silex, however, is neither sapid, nor soluble, nor perceptibly alterable in the air; and cannot be formed without the assistance of a violent heat. In the same manner, riple compounds may be found with either and however a bready extracted be formed with silex and borates already saturated with other bases.

The boracic acid has been found in a disengaged state in several lukes of hot mineral waters near Monte state in several lukes of hot mineral waters near Monte Rotondo, Berchialo, and Castellomovo, in Tuscany, in the proportion of nearly mue grains in a hundred of water, by Hoeffer. Mascagui also found it adhering to schistus, on the borders of lakes, of an obscure white, yellow, or greenish colour, and crystallized in the form of needles. He has likewise found it in combination with ammonia.

BORACITE. Borate of magnesia. A crystallized mineral found in gypsum in the Kaiberg, in Brunswick, and at Segeberg, in Holland. It is translucent, and of a shining greasy lustre, yellowish, grayish, or of a greenish-white colour. Vauquelin's Analysis gives 33.4 boracic acid, and 16.6 magnesia.

BORACIE. See Rorago.

gives 5.4 boracic actu, and no fragmenta. BO BAGE. See Borago.

BORAGO. (Formerly written Corago; from cor, the heart, and aga, to affect; because it was supposed to comfort the heart and spirits.) Borage. 1. The name of a cenus of plants in the Linman system. Class, Pentandria; Order, Monagymia.

2. The pharmacopeial name of the officinal borage.

See Borago officinalis

See Borago allicinatis.

Borago of the shops. Corrago; Buglossum verum; Buglossum latifolium; Borago hortensis. The leaves and flowers of this plant, Borago—foliis omnibus alternis, calucibus patentibus of Linnaus, are esteemed in some countries as refrigerant and cordial. A syrup In some countries as reingerant and cordini. A syrup is prepared from the leaves in France, and used in pleurisies and inflammatory fevers. Their principal use in this island is in that grateful summer beverage,

ase in this istant is in that gradulus summer deveroge, known by the name of cool tankard.

BO'RAS. See Borato.

BO'RATE. Boras. A salt formed of boracic acid with an earthy, alkaline, or metallic base; as borate

of soda &c.

BO'RAX. (Borak, Arabian.) Boras soda; Subboras soda. The obsolete-synonym-sare, Chrysocolla;
Capistrum avri; Anemur; Enrat-trion; Acestis
annear; Antonear, Timeal, Amphatane; Baurach;
Nitrum factium; Sonterna, and Nitrum natawm.

"It does not appear that borax was known to the
ancients; their chrysocolla being a very different sublane."

stance, composed of the rust of copper, triturated with

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tirine. The word borax occurs for the aest time in | been injured. the works of Geber.

Borax is found in the East, and likewise in South America.

The purification of heray by the Venetians and the Hollanders, west for a long time, kepf secret. Chaptel finds, after trying all the processes in the large way, that the simplest method consists in boding the orax strongly, and for a long time, with water. This soluthat the simplest meaning consists in assets. This solu-strongly, and for a long time, with water. This solu-tion being filtered, affords by evaporation crystals, which are somewhat foul, but may be purified by repeating the operation.

peading the operation.

Panified boreax is white, transparent, rather greasy in its fracture, affecting the form of six-sided prisms, terminating in three-sided or six-sided pyramids. Its taste is styptic; it converts syrup of violets to a green; and when exposed to heat, it swells up, boils, loses its water of crystallization, and becomes converted into a porous, white, opaque mass, commonly called Calcined Borax. A stronger heat brings it into a state of quiet fusion; but the glassy substance thus afforded, which is transparent, and of a greenish yellow colour. which is transparent, and of a greenish yellow colour, is soluble in water, and effloresces in the air. It requires about eighteen times its weight of water to dissolve it at the temperature of sixty degrees of Fabrenheit; but water at the boiling heat desolves three times this quantity. Its component parts according to Kirwan, are, boracic acid 34, soda 17, water 47.

Borax is rarely used internally in modern practice;

and, according to Murray, it does not appear to possess and, according to Murray, it does not appear to possess any activity, although it is supposed by some to be, in doses of half a drachm or two scruples, diuretic and emmenagogue. It is occasionally given in cardialgia as an antacid. Its solution is in common use as a cooling gargie, and to detach mucus, &c. from the mouth in putrid fever; and mixed with an equal quantity of sugar, it is used in the form of powder to remove

thy of sagar, it as used in the form of powder to remove the aphthous crust from the fongue in children. The salts formed by the union of the acid of borax with different bases are called borates. BORBORY GMUS. (From \$\int\_{00}\mathbb{S}\_{00}\varphi\_{00}\var tions. Dr. Good gives this name to that variety of his Limotis flatus, which is known by frequent rumbling

BORDEU, THEOPHILUS DE, a French physician, born in 1722. He graduated at Montpelier, and was soon after appointed inspector of the mineral waters at Bareges, and professor of anatomy. Subsequently, he went to Paris, and was admitted to the faculty there in 1754. He died of apoplesy in his 55th year. His most esteemed work is on the cellular membrane; his distinctions of the pulse appear too nice for prac-

BORELLI, John Addinsers, was born at Castel-ruovo, in 1608. He first taught the mathematics in Sicily, then as professor at Fisa; and being soon after admitted to the celebrated academy del Cimento, he formed the design of explaining the functions of animal bodies, on mathematical principles. For this purmad bodies, on mathematical principles. For this purpose he applied himself daigently to dissection. His grand work, "De Motu Animatium," was published after his death, which happened in 1679, at the expense of Christina, queen of Sweden. The imposing appearance, of his opinions gamed them many converts at first, but they have been found very defective on maturer examination. He was author of many other publications on different subjects.

BORON. The combustible basis of boracic acid.

See Boracic acid.

Boro zatt. An Ethiopian word for an epidemic Boro Zath. All ramoplan would for an open disease, in appearance smilar to the lues venerea. Bor x'60. See Borago. Bo'rat. (Ladian.) Borri-borri. Boberri.

Indian name for turmeric; also an ointment used there, in which the roots of turmeric are a chief ingredient.

BOTA'LE FORAMEN. A name formerly applied to

BOTA'LE FORMEN. A figure formerly appear to the formers ovale of the heart.
BOTALLUS, Eson up, an eminent physician of foregars in the first filling for the first filling for the first filling for the first filling for the filling filling for the filling filling

been injured. He published a treatise on gun-snot wounds, which long remained in high estimation. But that which chiefly gained him celebrity, was a work on bleeding, general and local, which he recommended to be freely practised in a great variety of diseases, both acute and chronic. His opinions were adopted by many, and carried to an extravagant length, par by many, and territor to an extinuage tricularly in France; but more callarged experience has tended greatly to lessen their prevalence.

tended greatly to lessen their prevalence.

Bota Nicon. (From Brank), an herb.) A plaster made of herbs, and described by Paulus Tegineta.

BOTANIST. Botanicus. One who understands the nature, history, and distinction of vegetables, on settled and certain principles, and can call every plant by a distinct, proper, and intelligible name.

BOTANY. (Botanica. Bofanen; from Bofann, an herb or grass, which is derived from Bow, or fooks, to feed, hecause grass; is the chief food of the animals which are most useful to man.) That branch of natural history which relates to the vegetable kingdom natural history which relates to the vegetable kingdom thatina instoly which relaces to the vectoric angle of the second of the three grand assemblages into which all terrestrial objects are divided. It is a science not confined to the description and classification of plants, as has often been represented, but it comprehends many other important particulars. Its various objects may be conveniently arranged under the following

1. The terminology, or description and nomenclature of the several parts of a plant, which are externally

If all natural objects were simple in their form, it If all natural objects were simple in their form, it would not be easy to distinguish one from another, nor would it be possible to describe them so as to give a clear and precise idea of them. Hence a boundless variety, connected with general resemblances, is wisely and benevolently made their universal character. Every plant is composed of several parts, which differ from each other in their outward appearance, and which cannot fail to strike the most careless spectator. Many of them also are themselves compound, and are obviously canable of heine divided into subsections. obviously capable of being divided into subordinate

paris.

2. The classification or arrangement. A knowledge of the different parts of a plant must necessarily be gained before it is described. But amidst the numerous vegetable productions of even a single country, this of itself would avail but little. To give a peculiar name to every individual would be a labour which no invention or diligence can perform; and, if performed, would produce a burden which no memory can sustain. would produce a barden which no memory can sustain. It is necessary, therefore, to pursue resemblances and differences through a number of gradations, and to found on them primary and subordinate divisions, either ascending from particulars to generals, or descending from penerals to particulars. The former is the method in which science of every kind is slowly formed and extended; the latter that in which it is most easily taught. The number of stages through which these subdivisions should be carried is either not recited out by rature or enough of parties is not not pointed out by nature, or enough of nature is not known to fix them with precision. They differ, there-fore, in different systems; and, unfortunately, corresponding ones have not always been called by the same

3. The synonymes of plants; or the names by which they are distinguished in the writings of professed botanists and others, from the earliest times to the present.

4. The sensible qualities of plants, or the different manner in which they severally affect the organs of

sight, smell, taste, and touch.

5. The anatomy of plants, or description of the different visible parts of which their substance is

composed.

composed.

6. The physiology of plants. A plant, like an animal, is a very compound, organized, living being, in which various operations, both chemical and mechanical, are continually carrying on, from its first production to its final dissolution. It spitings from a seed tertilized by the pothern of its pracent plant. It takes in foregrashustances by its inhaling and absorbent vessels. It claborates and assimilates to its own substance those parts of them that are nutritious, and throws off the roset. It sucretes a variety of fluids by the means of glands, and other unknown organs. It gives that motion to its sap on which a continuance of its life decends. 145

7. The purposes to which different plants are applied, there are a surfices of food, ingredients in the composition of medicine, or macrials and instruments in the seful and elegant arts; the soil and situation in which settle and elegant arts; the soil and situation in which settle and elegant arts; the soil and situation in which are the proper exercises. either as articles of food, ingredients in the composition of medicine, or materials and instruments in the useful and elegant arts; the soil and situation in which they are generally found, and which are most favour-able to their growth, the time of year in which they open their flowers, and ripen their fruit, with many open their nowers, and ripen their rine, with many other incidental particulars, are properly within the province of the botanist. But as a botanist he is concerned with nothing more than the simple facts. The first methods of cultivating such as are raised in considerable quantities for the special use or amusement of man; the theory of their nutritious or medicinal properties; and the manner in which they are to be prepared, so as to effect the intended purposes; are the province either of the gardener, farmer, physician, chemist, or the artist.

Remiss, or the arise.

8. The history of botany.

BOTANY BAY. An English settlement in New Holland, so called because it afforded the botanist numerous plants. A yellow resin goes by the name of Botany Bay gum, which exudes spontaneously from called decaying registrifying, and of Botany hay gum, which exudes spontaneously from the trunk of the tree called Acarois resimifera, and also from the wounded bark. All the information that has been hitherto collected respecting the history of the yellow gum is the following:—The plant that produces it is low and small, with long grassy leaves; but the fructification of it shoots out in a singular manner from the centre of the leaves, on a single straight stem, to the height of twelve or fourteen feet. Of this stem, which is strong and light, like some of the reed class, the natives usually make their spears. The resin is generally dug up out of the soil under the the reed class, the natives usually make their spears. The resin is generally dug up out of the soil under the tree, not collected from it, and may, perhaps, be that which Tasman calls "gum lac of the ground." Mr. Boles, suggeon of the Lady Penrhyn, gives a somewhat different account; and as this gentleman appears to have paid considerable attention to the subject, his account may certainly be relied upon. After describing the tree in precisely the same manner as above, he observes, that at the top of the trunk of the tree, long grassy leaves grow in great abundance. The gum is found under these leaves in considerable quantities: It commonly exudes in round tears, or drops, gum is found under these leaves in considerance quantities: It commonly exudes in round tears, or drops, from the size of a large pea to that of a marble, and sometimes much larger. These are, by the heat of the sun, frequently so much softened, that they fall on the ground, and in this soft state adhere to whatever they fall upon: hence the gum is frequently found mixed with dirt, wood, the bark of the tree, and various other statements, the statement of the tree, and various other statements, each statement that have been seen mixed with dirt, wood, the bark of the tree, and various other substances; so that one lump has been seen composed of many small pure pieces of various sizes, united together, which weighed nearly half a hundredweight. It is produced in such abundance, that one man may collect thirty or forty pounds in the space of a few hours. The convicts have another method of collecting it; they dig round the tree, and break off pieces of the roots, which always have some, and frequently considerable quantities of the gum in them. This gum appears nearly, but not entirely, the same as that which exudes from the trunk of the tree, to often mixed with a strong-smelling resinous former is often mixed with a strong-smelling resinous substance of a black nature, and is so interwoven in

substance of a black nature, and is so interwoven in the wood itself; that it is with difficulty separated. The latter appears a pure, unmixed, resinous substance. Several experiments have been made, principally with the view of determining what menstrum would dissolve the gum the most readily, and in the greatest quantity, from which it appears alkohol and where dissolve the most.

The diseases in which this resin is administrated as

The diseases in which this resin is administered are those of the prime viæ, and principally such as arise from spasm, a debility, a loss of tone, or a diminished action in the muscular fibres of the stomach and bowaction in the muscular fibres of the stomach and bowels, such as loss of appetite, sickness, vomiting, flatulency, heart-burn, pains in the stomach, &c. when
they were really idiopathic complaints, and not dependent upon any disease in the stomach, or affections
of other parts of the beilt communicated to the stomach. In debutites and relaxations of the bowels,
and the symptoms from thence arising, such as purging and flatulency, it has been found of good effect. In
certain cases of diarrhea, however, (and it seemed
those in which an unusual degree of irritability prevailed) it did not answer so well, unless given in small vailed) it did not answer so well, unless given in small doses, and combined with opiates, when the patient seconed to gain greater advantage than when opiates 146

system, this medicine, when assisted by proper ca-cise and diet, has, by removing the symptoms of dys-pepsia, and by restoring the tone and action of the tone family tone and action of the muscular fibres, been found very serviceable. medicine does not, in the dose of about hat, a drachm, appear to possess any remarkably sensible operation appear to possess any remarkany sensine operation. It neither vomits, purges, nor binds the belly, nor does it materially increase the secretion of urine or perspiration. It has, indeed, sometimes been said to purge and at others to occasion sweating; but they are not constant effects, and, when they do occur, it generally depends on some accidental circumstance. depends on some accidental circumstance. It snows seem to possess, in a very extensive degree, the property of allaying morbid irritability, and of restoring tone, strength, and action, to the debilitated and relaxed fibre. When the gum itself is given, it should always be the pure unmixed part; if given in the form of a draught, it should be mixed in water with much of a draught, it should be mixed in water with muci-lage of gum-arabic; if made into pills, a small portion of Castile soap may be employed; it was found the lixiv, sapon, dissolved it entirely. It is commonly, however, made into a tincture by mixing equal parts of the gum and rectified spirit; one drachm of this tincture, (containing haif a drachm of the pure gum) made into a draught with water and syrup, by the assistance of fifteen grains of gum-arabic in mucilage forms an elegant medicine, and at the same time very palatable. It soon solidifies by the sun, into pieces of a vellow colour of various sizes. It nulvertizes easily a yellow colour of various sizes. It pulverizes easily a yenow colour of various sizes. It pulverizes easily without caking; nor does it adhere to the teeth when chewed. It has a slightly sweet astringent taste. It melts at a moderate heat. When kindled, it emits a white fragrant smoke. It is insoluble in water, but imparts to it the flavour of storax. Out of nine parts, imparts to it the navour of storax. Out of nine parts, six are soluble in water, and astringent to the taste; and two parts are woody fibre.

BO'THRION. (From  $\beta o \beta \rho_{BO} \rho_{\gamma}$ , a little pit.) Botrium

1. The socket for the tooth.

2. An ulceration of the cornea. BOTRI'TIS. (From  $\beta or pvs$ , a bunch of grapes.) Bo-yites. A sort of burnt cadmia, collected in the top

tryites. A sort of burnt cadmia, collected in the top of the furnace, and resembling a bunch of grapes. BOTRYOLITE. A brittle and moderately hard mineral, which occurs in mamillary concretions of a pearly or grayish-white colour, composed of silica, boracic acid, lime, oxide of iron and water. It comes frem Norway. BO'TRYS.

BO'TRYS. (Bo'7pvs, a cluster of grapes: so called ecause its seeds hang down like a bunch of grapes., The oak of Jerusalem. See Chenopodium ambro

BOTRYS MEXICANA.

BOTRYS VULGARIS. See Chenopodium botrys. BOUBA'LIOS. See Momordica Elaterium, and Pu

dendum mulichre.

BOUGI'E. (French BOUGI'E. (French for wax candle.) Candeb cerea; Candela medicata; Catheteres of Swediau Cerei medicati of Le Dran; Cereolus Chirurgorum A term applied by surgeons to a long, slender instru A term applied by surgeons to a rong, sienuer instancent, that is introduced through the urethra into the bladder. Bougies made of the elastic gum are preferable to those made of wax. The caustic bougie different me ordinary one in having a thin roll of caustic in its middle, which destroys the stricture, or any part it comes in contact with. Those made of catgut are it comes in contact with. Those made of catgut are very seldom used, but are deserving of the attention of the surgeon. Bougies are chiefly used to overcome of the surgeon. Bougles are chiefly used to overcome strictures in the urchra, and the introduction of them requires a good deal of address and caution. They should not be kept in the urethra so long at one time as to excite much pain or irritation. Before their use is discontinued, they should, if practicable, be carried the length of the bladder, in order to ascertain the extent of the strictures, taking case that this be performed and the paint at long, but in a radual manner, and after repeat tent of the structures, taking care that this or performed not at once, but in a raduel manner, and after repeat ed thials, for much injury might arise from any hasty or violent efforts to remove the resistance that may There are bougies also for the copha present itself. gus and rectum.

BOULIMUS. (From βου, greatly, and λιμος, hunger; or from βουλομαι, to desire.) A canine or vora-

BOURNONITE. An antimonial sulphuret of lead.

Bovey coal. Of a brownish-black colour and lamellar texture, formed of wood, penetrated with petro-leum or bitumen, and found in England, France,

BOYLLE. (From bos, an ox, because cattle were supposed subject to it.) The measles.

BOYLNA FAMES. The same as bulimia.

Boyt Tay See Lycoperdon.

[BOWEN, Pardon, M.D. This accomplished physician and excellent man was born in Providence, Rhode Island, 22d of March, in the year 1757.

The incidents of Dr. Bowen's early life, we have been unable to collect with sufficient accuracy to warrant us

unable to conect with sumicient accuracy to warrant us in committing them to the pagess of an authentic memoir. During the prevalence of the yellow fever in Providence, when dejection and dismay sat upon many a brow, and the sense of personal danger threatened to absorb the sympathies of our common nature, and death mocked at the expedients of human science to avert his blow, Dr. Bowen shrunk not from the perils in his way. More than once was his life endangered by an attack of that fearful malady, but God preserved him from thus becoming a victim to his noble intre-

pidity in the service of humanity.

Dr. Bowen confined his attention to no particular department of his profession, but aimed at excellence in all. For his skill in operative surgery he was highly respected, and during many years most of the surgical operations, in and around Providence, were performed by him. In medical surgery he was thought extremely judicious; and his uncommon science, experience, and success in obstetrics, left him without a superior in that

difficult branch of his profession.

Dr. Bowen contributed occasionally to the medical journals of the day; and in the fourth volume of Hosack and Francis's Medical and Philosophical Register may be found an elaborate account from his pen gister may be found an elaborate account from his pen of the yellow fever, as it prevailed in Providence in the year 1895. He died in October 1885, aged 60 years. His life, in all its stages, was a beautiful exhibition of the virtues, and at its close, an example of Christian holiness.—See Thack. Med. Biog. A.] BOY-TREE. See Huxus. BOYLE'S FUMING LIQUOR. The hydroguret-

ted sulphuret of ammonia.
[BOYLSTON, Dr. Zabdiel, was born in Massachusetts in 1680, and was the eldest son of an English physician of the same name, one of the early settlers of that province under the British government. Dr. Boylston is represented as a skilful physician, bold, persevering, courageous and benevolent. "In the year 1721 the small pox appeared in Boston, and pursued its usual desolating career, carrying with it the utmost terror and confusion. On this alarming occasion Dr. Cotton Mather, the learned and distinguished divine, communicated to Dr. Boylston a publication in the Transactions of the Royal Society, announcing the discovery of a new method of mitigating the virulence of this fatal disease. Dr. Boylston was forcibly impressed with the benefit of the discovery, and accordingly after deliberating on the most safe and expeditions mode of thus artificially introducing the disease into the system, he communicated to the medical gentlemen in Boston the plan he proposed to adopt, and the source whence he derived the first hints of the operation, desiring their concurrence in the undertaking. ration, desiring their concurrence in the undertaking. In this measure he was opposed by the physicians and clergy, some of whom denounced him from the pulpit; and the inhabitants became enraged, and were excited to commit atrocious acts of outrage on the person of Dr. Boylston, extending their rancour even to his family.

"Undismayed, however, by all this violence, and unsupported by the friendship of any but Dr. Mather, he commenced, on the 27th June 1721, while the smallpox was in its most destructive progress through the town, this untried experiment of inoculation on his own son, a child of thirteen years of age, and two blacks in his family, one of thirty-six, and the other of two years of age, and on all with complete success. This rekindled the fury of the populace, and induced the authorities of the town to summon him before them to answer for his practice. He underwent repeated examinations: and although he invited all the practitioners in Boston to visit his patients and judge for themselves, he received only insults and threats in The facts we have thought worthy of notice,

as remarkable in themselves, and as in some degree characteristic of the excitable spirit of the times. In thus encountering obloquy and reproach, however, Dr. Boylston but experienced the fortune of most of those Boylston out experienced the fortune of most of those who have attempted to innovate on long established usages, or to take the lead in the career of public improvement. The small-pox ceased its ravages in May 1722; and during its prevalence Dr. Boylston continued the practice of inoculation to all who could be induced to expent to it. The interest of the process induced to submit to it. He inoculated with his own hand two hundred and forty-seven of both sexes from nine months to sixty-seven years of age in Boston and in the neighbouring towns; thirty-nine were inoculated by other physicians, after the tunult had in some measure subsided, making in the whole two hundred and eighty-six, of whom only six died; and of these, three were supposed to have taken the disease the ngtural way, some days previous to their being inoculated; three of those who died were his oldest patients. It appears, by the account published by the select men. that during the same period five thousand seven hundred and fifty-nine had taken the natural small-pox, eight hundred and forty-four of whom fell victims to the disease, being more than one in six. In the vicinity of Boston it had been still more malignant and fatal. The utility of the practice was now established without dispute; and its success encouraged its more general practice in England, in which country it had been tried upon but few persons, most of whom were condemned convicts and charity children. The daughter of Lady Mary W. Montague was inoculated in London, in April 1721, being the first instance in Europe, and the convicts were made the subjects of the experiment in August of the same year. Dr. Boylston therefore is justly entitled to the honour of being the first inoculator in America; and this, even before the single instance of the experiment in Europe had come to his

Dr. Boylston, during his unjust persecution, held a correspondence with Sir Hans Sloane, of London, the court physician; who, being apprised of his very eminent services in first introducing inoculation into America, honoured him with an invitation to visit London. He accordingly embarked for that city, and on his arrival was greeted with the most cordial affec-tion and respect. He was elected a member of the Royal Society, the first American, we believe, ever Royal Society, the hist American, we believe, ever admitted to that honour. He was moreover honoured by being introduced to the royal family, and received the most flattering attentions and friendship of some of the most distinguished characters of the nation. After his return to his native country, Dr. Boylston continued at the head of his profession, and engaged in literary pursuits, making many ingenious and useful communications to the Royal Society, and corresponding with his numerous friends, among whom he to mention with great respect and affection the Rev, Dr. Watts, who appears by his letters to have been a

warm advocate for inoculation.

Dr. Boylston possessed a strong and reflecting mind and acute discernment. His character through life and acute discernment. In character through the was one of unimpeached integrity. He was charitable in his opinions of others, patient under the severest persecution, and forgiving of his bitterest enemies. These qualities, added to the natural case and snavity of his manners, which had been improved by inter-course with the world, caused his society to be much sought, and to his family and his friends rendered him sought, and to his family and his friends rendered him a most interesting and instructive companion. His health was often interrupted by severe attacks of asthma, to which he was subject for the last forty years of his life. He met death with calmness and perfect resignation in the eighty-seventh year of his age, saying to his friends, 'my work in this world is done, and my hopes of futurity are brightening.' He was buried in the family tomb at Brooklyn, on which is breeribed the following ammorphiate and just language: was brived in the ramity compact processing, on which is inscribed the following appropriate and just language: 'Sacred to the memory of Dr. Zabdiel Boylston, Esq., physician and F.R.S., who first introduced the practice of inoculation into America. Through a life of extensive benevolence, he was always faithful to his word, just in his dealings, affable in his manners; and after a long sickness, in which he was extensive the memory and residence of the processing of the proc ners; and after a long success and resignation to his Maker, emplay for his patience and resignation to his Maker, he quitted this mortal life in a just expectation of a happy immortality, March lst, 1766. His wife died a few years before him."—See Thack. Med. Biog. A.]

BRACHE'RIUM. (From brachiale, a bracelet.) A truss or bandage for hernia; a term used by the bar-

barous Latin writers.
BRACHLE'US. Brachial; belonging to the arm. BRACHIÆUS EXTERNUS. Sec Triceps extenser

cubits.

BRACHLEUS INTERNUS. See Brachialus internus. BRACHLEUS MUSCULUS. See Brachialis internus. BRACHIAL. Brachialis. Of or belonging to the

BRACHIAL ARTERY. Arteria brachialis. The brachial artery is the continuation of the axillary artery, which, as it passes behind the tendon of the pectoralis major, receives the name of brachial. It runs down major, receives the name of brachat. It this cover on the inside of the arm, over the musculus coraco-brachialis, and anconæus internus, and along the inner edge of the biceps, behind the vena basilica, giving out small branches as it goes along. Below the bend of the arm it divides into the cubitalis and radialis. Sometimes, though rarely, the brachial artery is divided from its origin into two large branches, which run down on the arm, and afterward on the fore-arm.

where they are called cubitalis and radialis.

Brachia/le. The word means a bracelet; but the ancient anatomical writers apply this term to the carpus, the part on which the bracelet was worn.

BRACHIA/LIS. See Brachial.

BRACHIALIS EXTERNUS. See Triceps extensor

BRACHIALIS INTERNUS Brachiaus of Winslow Brachiants inversions. Brachiants of winsow. Brachians internus of Cowper; and Humero-cubital of Dumas. A muscle of the fore-arm, situated on the fore-part of the os humeri. It arises fleshy from the middle of the os humeri, at each side of the insertion of the deltoid muscle, covering all the interior and fore-part of this bone, runs over the joint, and adheres firmly to the ligament; is inserted, by a strong short tendon, into the coronoid process of the ulna. Its use

tendon, into the coronoid process of the una. Its use is to bend the fore-arm, and to prevent the capsular ligament of the joint from being pinched.

BRACHIATUS. Brachiate. Applied to branches, panicles, &c. spread in four directions, crossing each other alternately in pairs; a common mode of growth in the branche of shrulls that have opposite leaves, as

the lilac, syringa, &cc.
BRA'CHII OS. See Humeri os.

BRACHIO-CUBITAL LIGAMENT. Ligamentum brachiothitale. The expansion of the lateral ligament, which is fixed in the inner condyle of the os humeri, runs over the capsular, to which it closely adheres, and is inserted like radii on the side of the great sig-moid cavity of the ulna; it is covered on the inside by several tendons, which adhere closely to it, and seem to strengthen it very considerably

BRACHIO-RADIAL LIGAMENT. Ligamentum brachio-radiale. The expansion of the lateral ligament, which rangate. The expansion of the factor angalient, which runs over the external condyke of the os numer, is inserted round the coronary ligament from thence all the way down to the neck of the radius, and also in the neighbouring parts of the ulna. Through all this passage it covers the capsular ligament, and is covered veral tendons adhering closely to both

BRA'CHIUM. (Beaxion, the arm.) from the shoulder to the wrist. The arm,

BRACHIUM MOVENS QUARTUS.

BRACHU'NA. According to Avicenna, a species of

furor uterinus. BRACHYCHRO'NIDS. (From βραχυς, short, and χρονος, time.) A disease which continues but a short

BRACHYPNE'A. (From Boxxve, short, and wrew, to breathe.) Shortness and difficulty of breathing.

BRA'CHYS. (From Boaxus, short.) A muscle of

the scapula.

BRACTEA. (Bractea, a thin leaf or plate of metal.) A floral leaf. One of the seven fulcra or props of plants, according to Linneaus. A bractea is a little leaf-like appendage to some flowers, lying under or interspersed in the flower, but generally different in colour from the true leaves of the plant. the scapula.
BRACTEA.

1. It is green in some; as in Ocymum basilicum

2. Coloured in others; as in Salvia horminum, &c. 3. In some it is caducous, falling off before the

4. In others in remains; as in Tibia europæa.

Coma bracteata is, when the flower-stem is termi-

toma oraccecca is, when the nower-stem is termi-mated with a number of very large bracter, resem-bling a bush of hair. BRACTEATE. (From bracten, here meaning a corolia.) The name of a class of Boerhaave's method of plants, consisting of herhaceous vegenables, which have petals, and the seeds of which are furnished with a single lobe or cotyledon.

BRACTEATUS. (From bractea, a floral leaf.)
Having a floral leaf; as pedunculus bracteatus.
BRACTEIFORMIS Resembling a bractea or

floral leaf.

BRADYPE'PSIA. (From βραδυς, slow, and ωεπ7ω, to concoct.) Weak digestion.

BRA'GGAT. A name formerly applied to a ptisan of

BRAIN. See Cerebrum

Brain, little. See Cerebellum.

BRAN. Furfur. The busks or shells of wheat, which remain in the bolting machine. It contains a portion of the farinaceous matter, and is said to have portion of the farinaceous matter, and is said to have a laxative quality. Decoctions of bran, sweetened with sugar, are used by the common people, and sometimes with success, against coughs, hoarseness, &c. BRA'NCA. (Branca, the Spanish for a foot, or branch.) A term applied to some herbs, which are supposed to resemble a particular foot; as branca leonis, lion's foot; branca ursina, bear's foot.

BRANCA LEONINA. See Alchemilla.

Brainch under the second state of the fauces, shell denotes the second second state of the fauces, which constant is second sec

which secrete saliva. Bra'norms, or the fauces, which secrete saliva. Bra'norms. (From  $\beta \rho \varepsilon \chi \omega$ , to moisten.) A defluxion of humours from the fauces.

of humours from the fauces. BRANDY. Spiritus Gallicus. A colourless, slightly opaque, and milky fluid, of a hot and penetrating taste, and a strong and agreeable smell, obtained by distilling from wine. It consists of water, ardent spirit, and a small portion of oil, which renders it milky at first, and, after a certain time, colours it yellow. It is the fluid from which rectified or ardent spirit is obtained. Its peculiar flavour depends on the nature of the volatile principles, or essential oil, which come over along with it in the distillation, and likewise, in some measure, upon the management of the wise, in some measure, upon the management of the fire, the wood of the cask in which it is kept, &c. It is said, that our rectifiers initate the flavour of brandy, by adding a small proportion of nitrous æther to the spirit of malt, or molasses. The utility of brandy is spirit of mail, or molasses. The utility of brandy is very considerable, but, from its pleasant taste and exhilarating property, it is two often taken to excess. It gives energy to the animal functions; it is a powerful tonic, cordial, and antispasmodic; and its utility with camphire, in gangrenous affections, is very great.

BRANKS: The name in Scotland for the mumps.

parotidaa

BRANKURSINE. See Acanthus.

BRASI'LIA. Brazil wood

BRASILIENSE LIGNUM. See Hamatoxylum campe-

Brasiliensis Radix. The ipecacuanha root is sometimes so called. BRA'SIUM.

(From βρασσω, to boil.) Malt, or germinated barley

BRA SMA. (From βρασσω, to boil.) The unripe black pepper. Fermentation. Bra's mos. The same.

BRASS. Æs. A combination of copper and zinc.
BRASSADE'LLA. Brassatella. The Ophioglossum,

BRASSADE LLA. Brassatella. The Ophioglossum, or herb, adder's tongue.

BRASSICA: (Varro says, quasi pressica; from pressea, to cut off; because it is cut from the stalk for use; or from zoacta, a bed in a garden where they are cultivated, or from zoacta, a bed in a garden where they are cultivated, or from zoacta, a bed in a garden where they are cultivated, or from zoacta, a bed in a garden where they are cultivated, or from zoacta, a cannot of plants in the inimated system. Class, Tetradynama; Order, Sileguosa. Cambe. Cabbage. Colewort.

Brassica alaba. The white cabbage colewort.

Brassica apiana. Jagged or crimpled colewort Mercurialis suvestris.

Mercurialis annua.

Cabbage. There are several BRASSICA CAPITATA. Brassica Capitata. Cannage. There are several varieties of cubbage, all of which are generally hard of digestion, producing flattleneues, and afford very little nourishment. These inconveniences are not expe rienced by those whose stomachs are strong and accustomed to them. Few vegetables run into a state of putrefaction so quickly as cabbages; they ought, therefore, always to be used immediately after cutting. In Holland and Germany there is a method of preserving them, by catting them into pieces, and sprinking salt and some aromatic herbs among them; this mass is put into a tub, where it is pressed close, and left to fer-ment, when it is called sour crout, or sour krout. These, and all pickles of cabbage, are considered as wholesome and antiscorbute, from the vinegar and spices they contain.

BRASSICA CONGYLODES. Turnip cabbage.

Brassica cumana. Red colewort.
Brassica eruca. Brassica crucastrum. Brassica eruca. Prassica crucastrum. Eruca sylvestris. The systematic name for the plant which sylvestris. The systematic name for the pain when affords the semen enuca. Garden rocket. Roman rocket. Rocket gentle. Brassica—Johis lyartis, caule hirsuto silvijuis glabris, of Linneus. The seeds of this plant, and of the wild rocket, have an acrid taste, and are eaten by the Italians in their pickles, &c. They are sa I to be good aperients and antiscorbuties but are esteemed by the above mentioned people for their supposed aphrodisiac qualities.

BRASSICA FRICASPIRIM. See Brassica cruca. BRASSICA FLORIDA. The candiflower. BRASSICA GONYLICODES. The turnip cabbage. BRASSICA LACCTURIA. Brassica lacuturies. The Savoy plant.

BRASSICA MARINA. See Convolvulus suldanella. Brassica Napus. The systematic name for the plant from which the seemen nopi is obtained. Napus sulvestris. Bunias. Wild navev, or rape. The seeds yield, upon expression, a large quantity of oil called rape oil, which is sometimes ordered in stimulating liniments.

BRASSICA OLERACEA. The systematic name for the brassica capitata of the shops. See Brassica

capitata.

capitulu.

Brassica rapa. The systematic name for the plant whose root is called turnip. Rapums. Rapus. Napus. Napus dulcis.

The turnip. Turnips are accounted a salubrious food, demuleent, detergent, somewhat laxative and diuretic, but liable, in weak stomachs, to produce flatulencies, and prove difficult of digestion. The liquor pressed out of them, after beding, is sometimes taken medicinally in coughs and disorders of the beaut. The sendence of the beaut. breast. The seeds are occasionally taken as diuretics;

they have no smell, but a mild acrid taste.

BRASSICA RUBRA. Red cabbage, A very excellent test both for acids and alkalies in which it is superior

to litmus, being naturally blue, turning green with alkalies, and red with acids.

Brassica sabauda. The Savoy plant.

Brassica sativa. The common garden cabbage.

Brassica litera ars. A way of curing wounds, Brassion Luca ars. A way of curing wounds, mentioned by Paracelsus, by applying the herb Brassidella to them.

BRAZIL WOOD. See Casalpina crista.

[8 Brazil wood is the produce of the Casalpina crista, growing in Brazil, in the Isle of France, Japan, and other countries. The wood is hard and heavy; and though pale when recent, it acquires a deep red colour by exposure. Digested in water, it affords a fine red intusion, of a sweetish flavour; the residue, which appears nearly black, imparts much of its commer to alkaline figuors. With alkohol it gives a deep red functure: alkalies and soap convert its red colour to a fine purple; hence, paper tinged with Brazil wood is sometimes used as a test for alkalies; acids render it yellow: alum produces a fine crimson lake, with infusion of Brazil wood; muriate of tin forms with it a crimson precipitate, bordering on purple, the salts of commercial and purple the salts of commercial an its colour to alkaline liquors. With alkohol it gives a ple: the salts of iron give a dingy purple colour. Sul phuretted hydrogen destroys the colour of infusion of Brazil wood, but it reappears on expelling the gas."— See Webster's Mon. of Chem. A.] BREAD. Panis. "Farinaceous vegetables are

converted into meal by trituration, or grinding in a mill; and when the busk or bean has been separated mill; and when the busk or han has been separated by sitting or botting, the powder is cathed hour. This is co posed of a small quantity of muchatines saccharine matter, soluble in cold water; much starch, which is scarcely soluble in cold water, but combines with that shad by heat; and an adhesive gray substance insoluble in water, alkohol, oit, or where, and

resembling an animal substance in many of its pro-

perties

When flour is kneaded to ether with water, it forms a tough paste, containing these principles very little altered, and not easily digested by the stomach. The action of heat produces a considerable change in the glutten, and probably in the starch, rendering the compound more easy to masticate, as well as to digest. pointed more easy to inasticate, as well as to digest. Hence the first approaches towards the making of bread consisted in parching the corn, either for imme-diate use as food, or previous to its trituration into meal; or else in lanking the flour into unleavened bread, or boiling it into masses more or less consistent; of all which we have sufficient indications in the histories of the earlier nations, as well as in the various prac-tices of the moderns. It appears likewise from the Scriptures, that the practice of making leavened bread is of very considerable antiquity; but the additions of yest, or the vinous ferment, now so generally used, seems to be of modern date.

Unleavened bread in the form of small cakes, or bis-

Unleavened bread in the form of small cakes, or bis-cuit, is made for the use of shipping in large quanti-ties; but most of the bread used on shore is made to undergo, previous to baking, a kind of fermentation, which appears to be of the same nature as the fer-mentation of saccharine substances; but is checked and modified by so many circumstances, as to render it not a little difficult to speak with certainty and pre-

cision respecting it.

When dough or paste is left to undergo a spontaneous decomposition in an open vessel, the various parts of the mass are differently affected, according to the humidity, the thickness or thinness of the part, the vicinity or remoteness of fire, and other circumstances less easily investigated. The saccharine part is disposed to become converted into alkohol, the muchage has a tendency to become sour and mouldy, while the gluten in all probability verges towards the while the gluten in all probability verges towards the putrid state. An entire change in the chemical attractions of the several component parts must then take place in a progressive manner, not altogether the same in the internal and more humid parts as in the external parts, which not only become dry by simple evaporation, but are acted upon by the surrounding air. The outside may therefore become mouldy or putrid. while the inner part may be only advanced to an acid state. Occasional admixture of the mass would of state. Occasional admixture of the mass would of course not only produce some cange in the rapidity of this alteration, but likewise render it more uniform throughout the whole. The effect of this commencing fermentation is found to be, that the mass is rendered more digestible and light; by which last expression it is understood, that it is rendered much more porous by the disengagement of elastic fluid, that separates its parts from each other, and greatly increases its bulk. The operation of baking puts a stop to this process, by evaporating great part of the moisture which is requisite to favour the chemical attraction, and probably also by still farther changing the nature of the commonent marts. It is then bread.

bably also by still farther changing the nature of the component parts. It is then bread.

Bread made according to the preceding method will not possess the uniformity which is requisite, because some parts may be monidy, while others are not yet sufficiently changed from the state of dough. The same means are used in this case as have been found effectual in promoting the uniform fermentation of large masses. This consists in the use of a leaven or ferment, which is a small portion of some matter of the same kind, but in a more advanced stage of the fermentation. After the leaven has been well incorpfermentation. After the leaven has been well incorporated by kneading into fresh dough, it net only brings

porated by kneading into fresh dough, it not only brings on the fermentation with greater speed, but causes it to take place in the whole of the mass at the same time; and as seon as the dough has by this means acquired a due increase of bulk from the carbonic acid, which endeavours to escape, it is judged to be sufficiently fermented, and ready for the oven. The fermentation by means of leaven or sour dough is thought to be of the accoustkind, because it is generally so managed, that the bread has a sour flavour and taste. But it has been ascretized that this acidity proceeds from true vinegar. Bread raised by leaven is usually made of a mixture of wheat and rye, not very accurately cleared of the bran. It is distinguished by the name of rye bread; and the mixture of these two kinds of grain is called bread-corn, or meslin, in many parts of the kingdom, where it is raised on one

and the same piece of ground, and passes through all nesia, well mixed with a pound of the worst new se-the processes of reaping, threshing, grinding, &c. in this mixed state.

Yest or barm is used as the ferment for the finer kinds of bread. This is the mucilaginous froth which rises to the surface of heer in its first stage of fermentrises to the surface of the in the one page of scalars, atton. When it is mixed with dough, it produces a much more speedy and effectual fermentation than that obtained by leaven, and the bread is accordingly much lighter, and scarcely ever sour. The fermentation of the vinous control of the vinous control

tion by yest seems to be almost certainly of the vinous or spirituous kind

Bread is much more uniformly miscible with water

Bread is much more uniformly miscible with water than dough; and on this circumstance its good qualities most probably do in a great measure depend.

A very great number of processes are used by cooks, confectioners, and others, to make cakes, puddings, and other kinds of bread, in which different qualities are required. Some cakes are rendered brittle, or as it is called short, by an admixture of sugar or of starch. Another kind of brittleness is given by the addition of butter or fat. White of egg, gum-water, isinglass, and other adhesive substances, are used, when it is intended that the effect of fermentation shall expand the dough into an exceedinely oprous mass. Dr. Perthe dough into an exceedingly porous mass. Dr. Per-cival has recommended the addition of salep, or the nutritious powder of the orchis root. He says, that nutritious powder of the orchis root. He says, that an ounce of salep, dissolved in a quart of water, and mixed with two pounds of flour, two ounces of yest, and eighty grains of salt, produced a remarkably good loaf, weighing three pounds two ounces; white a loaf made of an equal quantity of the other ingredients, without the salep, weighed but two pounds and twelve ounces. If the salep be in too large quantity, how-ever, its peculiar taste will be distinguishable in the bread. The farina of potatoes, likewise, mixed with wheaten flour, makes very good bread. The reflecting chemist will receive considerable information on this be met with in treatises of cooking and confectionary.

Mr. Accum, in his late Treatise on Culinary Poisons,

states, that the inferior kind of flour which the London bakers generally use for making loaves, requires the addition of alum to give them the white appearance of bread made from fine flour. 'The baker's flour is very often made of the worst kinds of damaged foreign wheat, and other cereal grains mixed with them in grinding the wheat into flour. In this capital, no fewer than six distinct kinds of wheaten flour are brought into the market. They are called fine flour, Beconds, middlings, fine middlings, coarse middlings, and twenty-penny flour. Common garden beans and pease are also frequently ground up among the Lon-

don bread flour.

'The smallest quantity of alum that can be employed 'The smallest quantity of alum that can be employed with effect to produce a white, light, and porous bread from an inferior kind of flour, I have my own baker's authority to state, is from three to four ounces to a sack of flour weighing 240 pounds.'
'The following account of making a sack of five bushels of flour into bread, is taken from Dr. P. Markham's Considerations on the Ingredients used in the Adulteration of Flour and Bread, p. 21.

Five bushels flour,
Eight ounces of alum,
Four ibs, sait.

Four lbs. salt,
Half a gallon of yest, mixed with about
Three gallons of water.

Another substance employed by fraudulent bakers subcarbonate of ammonia. With this salt they is subcarbonate of ammonia. is succarbonate of ammonia. With this salt they realize the important consideration of producing light and porous bread from spoiled, or what is technically called sour four. This salt, which becomes wholly converted into a gaseous substance during the operation of hading causes the denth to succeed the succeeding the s converted into a gaseous substance during the operation of baking, causes the dough to swell up into air-bubbles, which carry before them the stiff dough, and thus it renders the dough porous; the salt itself is at the same time totally volatilized during the operation of baking.'—'Potatoes are likewise largely, and, perhaps, constantly used by fraudulent bakers, as a cheap ingredient to enhance their profit.'—'There are instances of convictions on regard of bakers have are instances of convictions on record, of bakers having used gypsum, chalk, and pipe-clay, in the manufacture of bread.'

Mr. E. Davy, Prof. of Chemistry at the Cork Institution, has made experiments, showing that from

The habitual and daily introduction of a portion of alum into the human stomach, however small, must be prejudicial to the exercise of its functions, and par-And, besides, as the best sweet flour never stands in need of alum, the presence of this salt indicates an inneed of alum, the presence of this sait indicates an in-ferior and highly accescent food; which cannot fail to aggravate dyspepsia, and which may generate a cal culous diathesis in the urinary organs. Every precau-tion of science and law ought, therefore, to be em-ployed to detect and stop such deleterious adulterations. Bread may be analyzed for alum by crumbling it down when somewhat stale in distilled water, squeezing the pasty mass through a piece of cloth, and then ing the pasty mass through a paper filter. A limpid infusion will thus be obtained. It is difficult to procure it clear if we use new bread or hot water. A dilute solution of muriate of barytes dropped into the filtered infusion, will indicate by a white cloud, more or less heavy, the presence and quantity of aium. I find that genuine bread gives no precipitate by this treatment. The earthy adulterations are easily discovered by incinerating the bread at a red heat in a shallow earthen vessel, and treating the residuary ashes with a little nitrate of ammonia. The earths themselves will then remain, characterized by their whiteness and

insolubility.

The latest chemical treatise on the art of making bread, except the account given by Mr. Accum in his work on the Adulterations of Food, is the article Baking, in the Supplement to the Encyclopædia Bri-

tannica.

tunnica.

I'nder Process of Baking, we have the following statement: 'An ounce of alum is then dissolved over the fire in a tin pot, and the solution poured into a large tub, called by the bakers the seasoning-tub. Four pounds and a haif of salt are likewise put into the tub, and a pailful of hot water.' Note on this passage.—'In London, where the goodness of bread is estimated entirely by its whiteness, it is usual with those better who employ flour of an infarior quelity. those bakers who employ flour of an inferior quality, to add as much alum as common salt to the dough. Or, in other words, the quantity of salt added is dimior, in other wous, the quantry of sai added is diminished one-half, and the deficiency supplied by an equal weight of alum. This improves the look of the bread very much, rendering it much whiter and firmer."—Ure's Chem. Duct.

BREAD-FRUIT. The tree which affords this, grows in all the Ladrone islands in the 3outh sea, in Otaheite, and now in the West Indies. The bread-

fruit grows upon a tree the size of a middling oak. fruit is about the size of a child's head, and the surface is reticulated, not much unlike the surface of a face is reticulated, not much unlike the surface of a truffle. It is covered with a thin skin, and has a core about the size of a small knife. The eatable part in between the skin and the core: it is as white as snow, and somewhat of the consistence of new bread. It must be toasted before it is eaten, being first divided into three or four parts. Its taste is insipid, with a slight sweetness, nearly like that of wheaten bread and artichoke together. This fruit is the constant food of the inhabitrant all the tear. It believe is extention and the state of the food of the inhabitants all the year, it being in season

eight months.

Bread-nut. See Brosimum alicastrum.
BREAST. Mamma. The two globular projections, composed of common integuments, adipose sub-

tions, composed of common integrations, and adhering to the anterior and lateral regions of the thorax of females. On the middle of each breast is a projecting

(emales. On the middle of each breast is a projecting portion, termed the papilla, or nipple, in which the excretory ducts of the glands terminate, and around which is a coloured orb, or disc, called the arcola. The use of the breasts is to suckle new-born infants. BREAST-BONE. See Sternum.

BRECCIA. An Italian term, frequently used by our mineralogical writers to denote such compound stones as are composed of agglutinated fragments of considerable size. When the agglutinated parts are rounded, the stone is called pudding-stone. Breccias are denominated according to the nature of their component parts. Thus we have calcareous breccias, or matbles; and siliceous breccias, which are still more maibles; and siliceous breccias, which are still more minutely classed, according to their varieties.

BRE'GMA. (From δρεχω, to moisten; formerly set

BRE VIS. Short. Applied to distinguish parts differing only in length, and to some parts, the termina-tion of which is not far from their origin; as brevia wasa, the branches of the splenic vein.

BREY'NIA. (An American plant named in honour of Dr. Brennius.) A species of capparis.

BRIAR. See Rosa.

BRI'CUMUM. 'A name which the Gauls gave to the herb artemisia. BRIMSTONE.

See Sulphur.

BRISTLE. See Seta. BRISTOL HOT-WELL. Bristoliensis agua. A pure, thermal or warm, slightly acidulated, mineral spring, situated about a mile below Bristol. The fresh water is inodorous, perfectly limpid and sparkling, and water is moderous, perfectly imply and sparking, and sends forth numerous air-bubbles when poured into a glass. It is very agreeable to the palate, but without having any very decided taste, at least none that can naving any very decided taste, at least none that can be distinguished by a common observer. Its specific gravity is only 1.00077, which approaches so n ar to that of distilled water, that this circumstance alone would show that it contained but a very small admixture of foreign ingredients. The temperature of these waters, taking the average of the most accurate obwaters, taking the average of the most accurate observations, may be reckoned at 74 deg.; and this does not very sensibly vary during winter or summer. Bristol water contains both solid and gaseous matter, and the distinction between the two requires to be attended to, as it is owing to the very small quantity of solid matter that it deserves the character of a very fine natural spring; and to an excess in gaseous con tents that it seems to be principally indebted for its medical properties, whatever they may be, independent of those of mere water, with an increase of tempera-ture. From the different investigations of chemists, it appears that the principal component parts of the Hot-Well water are, a large proportion of carbonic acid gas, or fixed air, and a certain portion of magnesia and lime, in various combinations, with the muriatic, vitriolic, and carbonic acids. The general inference is, that it is considerably pure for a natural fountain, as it contains no other solid matter than is found in

as it contains no other sond matter than is found in almost all common spring water, and in less quantity. On account of these nigredients, especially the car-bonic acid gas, the Hot-Well water is efficacious in promoting saintary discharges, in gueen-sickness, as well as in the blind hamorrhoids. It may be taken with advantage in obstructions, and weakness of the bowels, arising from habitual costiveness; and, from the purity of its aqueous part, it has justly been considered as a specific in diabetes, rendering the urinary organs more fitted to receive benefit from those medicines which are generally prescribed, and sometimes

successful.

But the high reputation which this spring has acquired, is chiefly in the cure of pulmonary consumption. From the number of unsuccessful cases among those who frequent this place, many have denied any peculiar efficacy in this spring, superior to that of common water. It is not easy to determine how much may be owing to the favourable situation and mild, temperate climate which Bristol enjoys; but it cannot be doubted that the Hot-Well water, though by no means a cure for consumption, alleviates some of the most harassing symptoms of this formidable disease. It is particularly efficacious in moderating the thirst, the dry, burning heat of the hands and feet, the partial night sweats, and the symptoms that are peculiarly hectical; and thus, in the earlier stages of phthisis, it may materially contribute to a complete re-establishment of health; and even in the latter periods, mitigate the disease when the cure is doubtful, if not hopeless. The sensible effects of this water, when drunk warm and fresh from the spring, are a gentle glow of the stormach, ancested a constitute by a flow of the stormach, ancested a constitute by a flow, but it is not to extend the stormach ancested a constitute by a flow, but it is not to extend the stormach ancested a constitute by a flow, but it is not to extend the stormach as a flow in the stormach and the stormach as a flow in the stormach as a subject to the subject to the stormach as a subject to the stormach as a subject to the subj

the stomach, succeeded sometimes by a slight and transient degree of headach and giddiness. By a continued use, in most cases it is diuretic, keeps the skin moist and perspirable, and unproves the appetite and health. Its effects on the bowels are variable. On the whole, a tendency to costiveness seems to be the more general consequence of a long course of this medicinal spring, and therefore the use of a mild aperient is requisite. These effects, however, are applicable only to invalids; for healthy persons who taste the water at moist and perspirable, and imploves the appetite and

called, because, in infants, and sometimes even in the fountain, seldom discover any thing in it but a adults, they are tender and moist.) An old name for the parietal bones. common element.

The season for the Hot-Well is generally from the middle of May to October, but as the medicinal pro-perties of the water continue the same throughout the year, the summer months are preferred merely on account of the concomitant benefits of air and exercise.

account of the concommant benefits of air and exercise. It should be mentioned, that another spring, nearly resembling the Hot-Well, has been discovered at Clifton, which is situated on the summitted the same hill, from the bottom of which the Hot-Well issues. The water of Sion-Spring, as it is called, is one or two degrees colder than the Hot-Well, but in other respects it sufficiently resembles it to be employed for all similar

BRITANNICA HERBA. See Rumer hydrolanathum.

and Arctium lappa.
BRITA'NNICUS. British. Applied to plants which

grow in this country, and to some remedies.

BRITISH GUM. When starch is exposed to a temperature between 600° and 700° it swells, and exhales a peculiar smell; it becomes of a brown colour, and in that state is employed by calico-printers. It is so-luble in cold water, and does not form a base compound with iodine. Vauquelin found it to differ from gum in with notice vauquem tenta treated, when treated with nitric acid.—Brande's Manuel, iii. 34.

British Oil. A variety of the black species of pe-

troleum, to which this name has been given as an

empirical remedy

BROCATELLO. A calcareous stone or marble, composed of fragments of four colours, white, gray,

yellow, and red. BRO'CCOLL

BRO CCOLL Brassica Italica. As an article of diet, this may be considered as more delicious than cauliflower and cabbage. Sound stounchs digest broccoli without any inconvenience; but in dyspeptic stomachs, even when combined with pepper, &c. it

stomachs, even when combined with pepper, &c. it always produces flatulency, and nauscous cructations. Brochos. (Βρογος, a snare.) A bandage. Brochos. (Γροπ βρογω, to pour.) The throat; also a small kind of drinking-vessel.
Brochus. Βροκος. One with a prominent upperlip, or one with a full mouth and prominent teeth.
BROCKLESBY, Richard, was born in Somersetshire, though of an Irish Family, in 1722. After studying at Edinburgh, he graduated at Leyden; then settled in London, but did not advance very rapidly in practice. About 1757, he was appointed physician to tled in London, but and not advance very rapinly in practice. About 1757, he was appointed physician to the army in Germany, and on his return after six years, published the result of his experience, in a work entitled "Economical and Medical Observations," His success now became more decided, and being produced the production of the His success now became more decided, and being prudent in his affairs, and without a family, he realized a considerable fortune. He proved himself however sufficiently liberal by presenting 1000 to Mr. Edmund Burke, who had been his school-fellow; and by offering an annuity of 1000 to Dr. Johnson, to enable him to small which however, because accorded. travel, which was not however accepted. He was author of several other works, and died in 1797.

author of several other works, and tale in 1797. Bro brush. A term in pharmacy, signifying the same with jusculum, broth, or she liquor in which any thing is boiled. Thus, we sometimes read of brodum sales, or a decoction of salt.

BRO'MA. (From  $\beta \rho \omega \sigma \kappa \omega_0$ , to eat.) Food of any kind that is masticated, and not drank.

BROMATHEON. (From βοωσκω, to eat.) Mushrooms. BROMATO LOGY. (Brog atologia; from βρωμα, food, and loyos, a discourse.) A discourse or treatise

BROME'LIA. (So named in honour of Olaus Bromel, a Swede, author of Lapologia, &c. in 1687.) The name of a genus of plants. Class, Hexandria. Order, Monogynia.

Order, Monogynia.

Bromelia analysis. The systematic name of the plant which affords the pine-apple, Bromelia:—folias ellento spinosis, mucronates, spice comosa of Linneus It is used principally as a delicacy for the table, and is also given with advantage as a refrigerant in fevers.

Bromelia karatas. The systematic name of the plant from which we obtain the feelit called penguin, which is given in the Spanish West Indies to cool and quench thirst in fevers, dysenteries, &c. It grows in a cluster, therebeing several of the size of one's finger together. Each portion is clothed with husk containing a white pulpy substance, which is the estable part; and if white pulpy substance, which is the eatable part; and if

it be not perfectly ripe, its navour resembles matter or one pine-apple. The juice of the ripe fruit is very austere, and is made use of to acidulate punch. The imadi-ants of the West Indies make a wine of the pengun,

ants of the West Indies make a wine of the pengun, which is very intoxicating, and has a good flavour. BROMFIELD, WILLIAM, was born in London, 1712; and attained considerable reputation as a surgeon. At the age of twenty-nine he began to give anatomical lectures, which were very well attended. About three years after, in conjunction with the Rev. Mr. Madau, he formed the plan of the Lock Hospital, and so ably enforced the advantages of such an institution, that a sufficient fund was raised for erecting the present building; and it has been since perious the tution, that a sufficient fund was raised air enerting the present building; and it has been since natinataned by voluntary contributions. He was appointed surgeon, and held that office for many years: he was also surgeon to St. George's Hospital, and to Her Majosiy's household. He wrote many works; the most considerable was entitled "Chirurgical Cases and Observations," in 1773, but reckoned not to answer the exhectations entertained of him. He attuned his expectations entertained of him. He attained his eightieth year.

In 1826, M. Balard of Montpelier discovered in sea-water a new substance, to which he gave the name muride; but it has since been changed to bromine, a word derived from the Greek βεωμος (graveolentia) signifying a strong or rank odour.

Bromine exists in sea-water in the form of hydro-

bromic acid. It is present, however, in very small quantity; and even the uncrystallizable residue called bittern, left after the mariate of soda has been sepa-rated from sea-water by evaporation, contains but little of it. On adding chlorine to this liquid, an orange of it. On adding chlorine to this figurd, an orange yellow tint appears; and on heating the solution to the boiling point, the red vapours of bromine are expelled, which may be condensed by a freezing mixture. A better process is to transmit a current of chlorine gas through the bittern, and then to agitate a portion of æther with the liquid. The æther dissolves the whole of the bromine, from which it receives a beautiful hyacinth red tint, and on standing, rises to the surface. hyacinth red tint, and on standing, rises to the surface. When the ethereal solution is agitated with caustic potassa, its colour entirely disappears, and on evaporation, cubic crystals of the hydro-bromate of postessa are deposited. On mixing these crystals, reduced to powder, with pure peroxide of manganese, and additional sulphuric, acid diluted with its volume of water, the bromine is disengaged in a gaseous state. A small receiver, nearly filled with water, is attached to the retort, the beak of which and the receiver are kept retort, the beak of which and the receiver are kept cool by a frigorific mixture. The bromine condenses in the beak, runs into the receiver, and fulls to the bottom on account of its great specific gravity. It is slightly soluble, but the water in its immediate vicinity soon becomes saturated. The water is decanted, and the remainder distilled with chloride of calcium, by which the bromine is obtained in a liquid state.

M. Balard has also detected bromine in marine plants which grow on the shores of the Mediterranean, each has accounted it from the adjace of the sea water.

plants which grow on the shores of the bredher rate of the she can wends that furnish iodine. He has likewise found it in the ashes of some animals, especially in those of the janthina violacea, one of the testaceous mollusca.

Bromine at common temperature is a liquid, the colour of which is blackish red, when viewed in mass and by reflected light, but appears hyacinth red when a thin stratum is interposed between the light and the observer. Its odour, which somewhat resembles that observer. Its odour, which somewhat resembles that of chlorine, is very disagrecable: and its taste powerful. It acts with energy on organic matters, such as wood or cork, and corrodes the animal fexture; but if applied to the skin for a short time only, it communicates a yellow stain less intense than that from iodine, and which soon disappears. It is highly destructive to animals: one drop of it placed on the heak of a bird proves fatal.—Webster's Man. of Chem. A.]

[BROMIC ACID. Bromine unites with oxygen and forms Bromic acid, which may be obtained in a separate state by decomposing a dilute solution of the bromate of baryta with subhuric acid. From the goals.

mate of baryta with sulphuric acid. From the analysis of the bromate of potassa, it appears to consist of 1 atom of bromine +5 atoms oxygen.

The bromates are analogous to the chlorates and iodates. Thus the bromate of potassa is converted by heat into the bromate of potassa im, with disensing with disensing the property of the pr on burning coals, and forms with sulphur a mixture Laryngotomy.

it be not perfectly ripe, its flavour resembles that of the which detonates by percussion. The acid of the browhich defonates ny percuision. The acut of the order mates is decomposed by hydro-bronic and muriatic acids.—Webst. Man. of Chem. A.] Bros Moss. (From Josepos, the oat.) The name of a plaster, made with oaten flour, resulting by Paulus

BRO MUS. (From βρουμα, food.) The name of a genus of plants in the Lamacan system. Class, Tri-unders: Order, Diggman. Brome-grass.

BROMUS STERLIES. (From βρουκω, 10 cat.) The

BRO'NCHIA. (Bronchia, orum. neut. plur.; from BRONCHIAL. (Bronchialis; from bronchia.)

Appertaining to the windpipe, or bronchia; as bron-

chial gland, artery, &c.
BRONCHIATAS. See Bronchial.

BRONCHIALES ARTERLE. Bronchial arteries.— Branches of the aosta given off in the chest. BRONCHIALES GLANDELE. Bronchial glands.—

Large blackish glands, situated about the bronchia

BRONCHOCE LE. (From βρογχος, the windpipe, and κηλη, a tumour.) Boteum; Herma gutturis; Guetur iumidum; Trachelophyma; Cossum; Exe-Goodear temedem; Trachetophyma; Cossium; Exse-chebronches; Gangronu; Herbin bronchiales; Tra-chemede. Derbyshire neck. This disease is macked by a timeur on the fore-part of the neck, and scated between the trachea and slan. In general, it has been supposed principally to occupy the thyroid gland. We are given to understand that it is a very common disorder in Derbyshire; but its occurrence is by no means frequent in other parts of Great Britain, or in Ireland. Among the inhabitants of the Alps, and other mountainous countries bordering thereon, it is a disease very often met with, and is there known by the name of goitre. The cause which gives rise to it, is by no means certain, and the observations of different writers are of very little practical utility. Dr. Saunders controverts the general idea of the bronchocele being produced by the use of snow water. The swelling is at first without pain, or any evident fluctuation; when the disease is of long standing, and the swelling considerable, we find it in general a very difficult matter saferine, we find it in general a very uniform matter to peffect a cure by medicine, or any external applica-tion; and it might be unsafe to attempt its removal with a knife, on account of the calarged state of its acteries, and its vicinity to the carotids; but in an early stage of the disease, by the aid of medicine, a cure may be effected

Although some relief has been obtained at times, and the disease probably somewhat retarded by external applications, such as blisters, discutient embrocations, and saponaceous and mercurial plasters, still a com-plete cure has seldom been effected without an interplete cure has seldom been effected without an in maluse of medicine; and that which has always proved the most efficacious, is burnt sponge. The form order which this is most usually exhibited, is that of a lozenge. R. spongie usta 2 see mucifag. Arab gam. q. s. flat trochiscus. When the tumour appears about the age of puberry, and before its structure has been the age of puberty, and before its structure has been too morbibly devanged, a pill consisting of a grain or two of calomel, must be given for three successive nights; and, on the fourth morning, a saline purge. Every mights; and, on the fourth morning, a saline purge. Every might atterward, for three weeks, one of the troches should, when the patient is in bed, be put under the tongue, suffered to dissolve gradually, and the solution swallowed. The disguest at first arising from this remedy soon wears off. The pills and the purge are to be repeated at the end of three weeks, and the troches had recourse to as before; and this plan is to be pursued itil the tumour is entirely dispersed. Some recommend the burnt sponge to be administered in larger doses. Sulphuretred potasses dissolved in water, in the proportion of 30 grains to a quart daily, is a in the proportion of 30 grains to a quart daily, is a remedy which has been employed by Dr Richter with success, in some cases, where calcined sponge failed.
The sodae subcarbonas being the basis of burnt sponge, is now frequently employed instead of it, and, indeed, it is a more active medicine.

it is a more active medicine.

[Bronchorede is said to have been cured by iodine; for which see that article. A.]

BRO NCHOES. (Boo; χos, the windpipe.) A catarrh. a suppression of the voice from a catarrh. BRONCHO TOMY. (Bronchotomae; from βρογχος, the windpipe, and τρμος, to cut.) Tracheotomy; Laryngotomy. This is an operation in which an

opening is made into the larynx, or trachea, either for the purpose of making a passage for the air into and any areas of public life. How great were the the purpose of making a passage for the air into and out of the lungs, when any discase prevents the patient from breathing through the mount and nostrils, tient from breathing through the mouch and mostries, or of extracing foreign bodies, which have accidentally fallent ione the trachea; or, lastly, in order to be able to ordate the lines, in cases of sudden suffoca-tion, drowsing, s.c. its practicableness, and little danger, are founded on the tacility with which certain wounds of the windipie, even of the most complicated kind, have been healed, without leaving any file effects what very and on the partner of the most complete.

whatever, and on the nature of the parts out, which are not fivenished with any vessel of consequence.

BRO'NCHUS. (From 200000, to pout.) The arcients believed that the solids were conveyed into the

cheins beheven that the some were conveyed mornes tomach by the exopingus, and the simils by the bronchia; whence its name. 1. The windpipe.

2. A dicfluxion from the fances. See Catarrhus.

BRONZE. A mixed metal consisting chiefly of copper, with a small portion of tin, and sometimes other match.

BRONZITE. A massive metal-like mineral, fre-quently resembling bronze, found in large masses in

quently resembling bronze, found in large masses in beds of serpentine in Upper Stiria, and in Pertisshire. BROOKLAME. See Veronica becachinga.

[BROOKS, John, M.D. LL.D. The honourable John Brooks was born in Medford, Massachusetts, in the year 1752. His father, Captain Caleb Brooks, was a respectable independent farmer, and the son spent his earliest years in the usual occupations of a farm. He received no education preparatory to his professional studies, but that of the fown school; at which, however, he was able to acquire sufficient of the learned languages to qualify him for the moffession. the learned languages to qualify him for the profession of medicine. At the age of fourteen, he was placed under the tuition of Dr. Simon Tuits, of Mediord, by a written indenture as an apprentice for seven years; this being the usual custom of that day.

Having finished his studies, he close the neighbour-ing town of Reading as his residence, and commenced his practice there. But by this time, the storm of the revolutionary war was gathering; and, as its distant thunders rolled towards our shores, the hearts of the gallant youth of our country responded to the sound, and preparations for the field superceded the minor

concerns of life. Dr. Brooks accordingly entered into the military Dr. Brooks accordingly entered into the military service of his country. As a Captain, he first exhibited his bravery in his attack upon the British at Lexington, in the neighbourhood of Boston. He shortly after received the commission of Major in the Continental army, as it was then called. In 1777, he was promoted to the rank of Colonel, and was a very efficient of the property cient officer in the battles of Saratoga, which resulted in the capture of Burgoyne. In the battle of Monmouth, in New-Jersey, he was acting Adjutant-General, and on this, as on all occasions, conducted with great coolness and bravery, through the whole of the

revolutionary war.

After the war, he recommenced the practice of physic, and continued for many years in high estima-tion as a practitioner. It is said of him, that, "As a tion as a practitioner. It is said of him, that, "As a physician, he ranked in the first class of practitioners. He possessed in an eminent degree those qualities He possessed in an eminent degree those qualities which were calculated to render him the most useful in his professional labours, and the debelit of those to whom he administered relief. His meaners were dignified, courteous, and benign. He was kind, patient, and attentive. His kind offices were peculiarly acceptable from the relicitous manner in which he performed them. His mind was well furnished with scientific and practical knowledge. He was accurate to the presentation of the procession of the minimum of the procession of in his investigations, and clear in his discernment. He therefore rarely failed in forming a true diagnosis. If he were not so bold and during as some, in the administration of remedies, it was because his judgment and good sense led him to prefer erring on the side of prudence, rather than on that of rashness. He side of prudence, rather than on that of rashness. The waveled the operations of nature, and never interfered unless it was obvious he could aid acid support her. He was truly the "Hierophant of Nature," studying he mysteries, and obeying her oracles."

Dr. Brooks became so great a favorate of his comtrymen, that he was finally elected Governor of the state of Massachusetts. Dr. Thacher says of him—

"Having faithfully and aby discharged the duties of chief massicale for seven successive veats, he

and anywines of public life. How great were the public is greats, and how gladly would a large majority his tellow entirens have retained his valuable ser of his telear citizens have retained his valuable services; but they tothere urging him to any farther sacrifices for the good or his country. He retired to private his with distany, and with the love and blessings of a gratical year, and with the love and blessings of a gratical year. He ded in March, 1825, in the 75d year of his axe,—see Thach, Med. Biog. A.] BROOM, See Spartness scaparium.

BROOM, See Spartness scaparium.

BROOM, (From phostipes, catable.) The name of a genus of passis in the Linna an system. Class, Diacola; Order, Monarcina.

BROOM and MARCASTERM The specific name of the tree, which affords the bread-nut.

BROWN, JOHN, DOOR, DOOR III the county of Poewick in

BROWN, John, born in the county of Perwick, in BROWN, John, born in the county of Perwick, in 1735. He hade very rapid progress in his youth in the learned languages, and at the age of twenty went to Edinburgh to study theology; but before he could be ordained, became attached to free living and tree thinking. About 1759, having translated the inaugural thesis of a medical candidate into Latin, and the performance being highly applauded, he was led to the study of medicine. The professors at Edinburgh allowed him to attend their lectures gratuitously; and he maintained himself by instructing the students in Latin, and composing or translating their dissertations. Dr. Cullen particularly encouraged him, notwithstanding his irregularities, employing him as tutor to his sons, and allowing him to repeat and enlarge upon his lectures in the evening to those pupils who chose to attend. In 1765 he married, and his house was soon bled with boarders; but his imprudence brought on bankruptcy within four years after. About this period he was an unsuccessful candidate for one of the medical chairs; and attributing his failure to Dr. Cullen, became his declared enemy. This probably determined him to form his new system of medicine, afterward published unior the title of "Elementa Medi-cines" in which certainly much genius is displayed, but little acquaintance with practice, or with what had been written before on the subject. His chief object seems to have been to reduce the medical art to the utmost simplicity: whence he arranged all dis-cases under the two divisions of stheric and asthenic, and maintained that all agents operate on the body as stimuli; so that we had only to increase or diminish the force of these according to circumstances. At the head of his stimulant remedies, he places wine, brandy, and opinm, in the recommendation of which he is very likecal; and especially betrays his partiality to them by asserting, contrary to universal experience, that he found them in his own person the best preservatives against the gout. He is said to have prepared himself for his fectures by a large dose of latdanum in winskey; and thus roused houself to a de-gree of enthusiasm bordering on frenzy. After comgree or curdistasm boldering on freing. After completing his work, he postered a degree from St. Andrewis, and commenced public teacher. The novely and imposing simplicity of his doctrines procured him at first a pretty numerous class; but being irregular in his attendance, and his habits of intemperance increasing, they fell on by degrees; and he was at length so embarrassed, as to be obliged to quit. Edinburgh in 1786. He then satisfied in Lendon, but not with little 1786. He then settled in Lendon but net with little success, and in about two years after died. His opiniens at hist found many supporters, as well in this as in other countries; but they appear new nearly fallen into deserved oblivion.

BROWN SPAR. Pearl spar. Sideroculcite.

BROWN SPAR. Pearl spar. Sideroculcite. A white, ted, or bown, or brack spar; harder than the calcareous, but yields to the knife.

BROWNE. Sea Throws, was born in Cheapside, 1605. After studying and practising for a short time at Oxford, he spent about three years in traveling, graduating at fergth at Leydon. He then cause to London, and prints incidence between the three races to London, and prints incidence as a work of genius, thouch blemistad by a few of the popular superstitions time preventing. The soon at our street at Newwest, and got motively word province: and was satisfied an innoracy member of the London College of psystems. In 1965, as peared this roset popular work. On Vulgar 17 ones, which added a capty to be them; though he insulted usy anisot the Copenian system months. "Having faithfully and ably discharged the duties in mediciness, was a made the Copernican system among them: he was kingined by Charles II.; and died at of chief magistrate for seven successive years, he the termination of his 77th year. His son Edward

was also a physician, and attained considerable emi-nence, having had the honour of attending Charles II. and William III., and being for three years president

of the college.

[BRUCE, Archibald, M.D. A native of New-York, born in 1777, during the revolutionary war. He studied physic under Dr. Hosack, visited Europe, and graduated at Edinburgh in the year 1800. During and graduated at Editiourgh in the year 1890. During a tour of two years in France, Switzerland, and Itaiv, Dr. Bruce collected a mineralogical calmiet of great value and extent. Upon his return to England, he married in London, and came out to New-York in the summer of 1893, to enter upon the duties of a practitioner of medicine. In 1807, he was appointed professor of Materia Medica and Mineralogy, in the College of Physicians, and Surgeons of New-York. College of Physicians and Surgeons of New-York. In 1810, he commenced the editorship of a Journal of American Mineralogy, after the manner of the well known work issued by the School of Mines, at Paris. It met with becoming success, and had many valuable contributors to its pages; but owing to various causes was never carried beyond the completion of the first volume. The Mineralogical Journal contributed materially to extend the fame of Dr. Bruce, as well as his discovery of the hydrate of magnesia, at Hoboken.

discovery of the hydrate of magnesia, at Hoboken. He died in February, 1818, in the 41st year of his age. —See Thach. Med. Biog. A.]
BRU CEA. (So named by Sir Joseph Banks, in honour of Mr. Bruce, the traveller in Abyssima, who first brought the seeds thence into England.) The name of a genus of plants in the Limmean system. Class, Diocia: Order, Tetrandria.
BRUCKA ANTIDYSENTERICA. The systematic name of the plant from which it was erroneously supposed

of the plant from which it was erroneously supposed we obtained the Angustura bark. See Cusparia.

BRUCEA FERRUGINEA. This plant was also supposed to afford the Angustura bark.

posed to allord the Angustura bark.

BRUCIA. Brucine. A new vegetable alkali, lately
extracted from the bark of the false Angustura, or
Brucia antidysenterica, by Pelletier and Caventon.
After being treated with sulphuric ather, to get rid of
a fatty matter, it was subjected to the action of alkoholi. The dry residuum, from the evaporated alkoholic solution, was treated with Goulard's extract, or
activate of getal, to throw down the relians. solution of acetate of lead, to throw down the colouring matter, and the excess of lead was separated by a current of sulphuretted hydrogen. The nearly colourless alkaline liquid was saturated with oxalic acid, and evaporated to dryness. The saline mass being freed evaporated to dryness. The saline mass being freed from its remaining colouring particles by absolute alkohol, was then decomposed by lime or magnesia, when the bracia was disengaged. It was dissolved in when the bracea was disengated. It was ussued boiling alkohol, and obtained in crystals, by the slow evaporation of the liquid. These crystals, when obtained by very slow evaporation, are oblique prisms, the bears of which are parallelograms. When depothe bases of which are parallelograms. When de sited from a saturated solution in boiling water, cooling, it is in bulky plates, somewhat similar to boracic acid in appearance. It is soluble in 500 times its weight of boiling water, and in 850 of cold. Its solubility is much increased by the colouring matter of the

Its taste is exceedingly bitter, acrid, and durable in the mouth. When administered in doses of a few the mouth. When administered in doses of a few grains, it is poisonous, acting on animats like strych-nia, but much less violently. It is not affected by the air. The dry crystale fuse at a temperature a little above that of boiling water, and assume the appear-ance of wax. At a strong heat it is resolved into car-bon, hydrogen, and oxygen; without any trace of azote. It combines with the acids, and forms both neutral and super-salits.

neutral and super-sails.

BRUCINE. See Brucia.

BRUISEWORT. See Saponaria.

BRUMALIS. (From Bruma, Winter.) Hyemalis. Belonging to winter.

BRUMALLES PLANTE. Plants which flower in our

winter, common about the cape.

BRUNNER, JOHN CONRAD, Was born in Switzerland in 1653. He obtained his degree in medicine at Stras-burg when only nineteen. He afterward spent several years in improving himself at different universities years in improving manser a director directors, particularly at Paris; where he made many experiments on the pancreas, and found that it might be removed from a deg with impunity. On his return he was made professor of medicine at Heidelburg; and

gained great reputation, so as to be consulted by most of the princes of Germany. He discovered the mucous glands in the duodenum; and was author of several inconsiderable works. He died in 1727.

BRUNNER'S GLANDS. Brunner' glandulæ. Peyer's glands. The muciparous glands, situated between the villous and cellular coat of the intestinal canal; so named after Brunner, who discovered them.
BRUNSWICK GREEN. An ammoniaco-muriate

copper.
BRUNTKUP FERZ. Purple copper ore.
BRU NCS. An erysipelatous cruption.
BRU SCUS. See Ruscus.

BRU SCUS. See Ruscus.
BRUT'A. An Arabian word which means instinct, BRUT'A.

and is also applied to Savine. BRU'TIA. An epithet for the most resinous kind of pitch, and therefore used to make the Oleum Promum. The Pix Brucia was so called from Brutia, a country in the extreme parts of Italy, where it was produced. BRUTI'NO. Turpentine.

BRU TOBON. The name of an ointment used by the

BRUTUA. See Cissampelos Pareira. BRUXANE'LI. (Indian.) A tall tree in Malabar, the

bark of which is diuretic

Dark of which is durente.

Bre'Gaud. (From Bruyge, to make a noise.) A peculiar kind of noise, such as is made by gnashing or grating the teeth; or, according to some, a certain kind of convulsion affecting the lower juw, and strinking the teeth together, most trequently observed in such children as have transparent. dren as have worms.

BRYO'NIA. (From  $\beta p v \omega$ , to abound, from its abundance.) Bryony. 1. The name of a genus of plants in the Linnæan system. Class, Diweia; Order,

Syngenesia.

The pharmacopæial name of the white bryony.

See Bryonia alba.
The systematic name of the white See Bryonia alda.

Bryonia Alba. The systematic name of the white bryony plant. Vitis alba sylvestris; Agrostis; Anelo sagria; Archeostris; Echetrosis of Hippociates. Bryonia aspera; Cedrostis; Cheldionium; Labrusca; Melothrum; Ophrostaphylon; Psitothrum. Bryonia plantais utrinque callos-scabris of Linneus. This plant is very common in woods and hedges. The root has a very nauseous biting taste, and disagreeable smell. Bergius states the virtues of this root to be purgative, hydragogue, emmenagogue, and diuretic; the fresh root emetic. This powerful and irritating cathartic, though now seldom prescribed by physicians, is said to be of great efficacy in evacuating serous humours, and has been chiefly employed in hydropical cases. Instances of its good effects in other chronic diseases are also mentioned; as asthma, mania, and cridepse, in small doses, it is reported to operate as a diuretic, and to be resolvent and deobstruent. In powder, from Dj. to a drachm, it proves strongly purgative, and the juice, which issues spontaneously, in doses of a spoonful or more, has similar effects, but is doses of a spoonful or more, has similar effects, but is more gente in its operation. An extract prepared by water, acts more mildly, and with greater safety, than the root in substance, given from half a drachm to a drachm. It is said to prove a gentle purgative, and likewise to operate powerfully by urine. Of the expressed juice, a spoonful-acts violently both upwards and downwards; but cream of tartar is said to take off its virulence. Externally, the fresh root has been employed in cataplassus, as are solvent and discutient: also in ischiadic and other rheumatic affections.

REVOULA MECHOLOGIANA NIGHELANS. A PROPERTINE.

BRYONIA MECHOACHANA NIGRICANS. A name given to the jalap root.

BRYONIA NIGRA. See Tamus communis.

BRYONIA PERUVIANA. Jalap.
BRYONY. See Bryonia nigra.
Bryony, black. See Tamus.
Bryony, white. See Bryonia alba.

Bry Thion, Browleton A malagma; so called and described by Panius Ægineta.
Bry Town (From βρυω, to pour out.) A kind of ale, or wine, made of barley.
Bubasteo and cor, the

heart.) A name formerly given to artemisia, or mug-

BU'BO. (From βουδων, the groin; because they most frequently happen in that part.) Modern surgeons mean, by this term, a swelling of the lymphatic glands, particularly of those of the groin and axilla. The disease may arise from the mere irritation of suma local disorder, when it is called sympathetic bubo; from the absorption of some irritating matter, such as the venereal poison; or from constitutional causes, as in the pestilential bubo, and scrophulous swellings, of the inguinal and artillare, usual

the pestilential bubo, and scrophulous swellings, of the inguinal and axillary gland.

BUBON. (From Boubow, the groin, or a tumour to which that part is liable, and which it was supposed to cure.) The name of a genus of plants in the Linnaan system. Class, Pentandria; Order, Digynia.

Bubon Galasnum. The systematic name of the plant which affords the officinal galbanum. Albetad; Chalbane; Gesor. The plant is also named Ferula Africana; Orcoselinum Africanum; Anisum fruticescens galbaniferum; Anisum Africanum fruticescens; Ayborzat. The lovage-leaved bubon. Bubon;-fdiis rhombris dentatis stratis glabris, umbellis paucis, of rhombeis dentatis struatis glabris, umbellis paucis, of Linnæus. Galbanum is the gummi-resinous juice, obtained partly by its spontaneous exudation from the joints of the stem, but more generally, and in greater abundance, by making an incision in the stalk, a few inches above the root, from which it immediately issues, and soon becomes sufficiently concrete to be gathered. It is imported into England from Turkey, and the East Indies, in large, softish, ductile, pale-coloured masses, which, by age, acquire a brownish-yellow appearance; these are intermixed with distinct whitish tears, that are the most pure part of the mass. Galbanum has a strong unpleasant smell, and a warm, bitterish, acrid taste. Like the other gurmmy resins, it unites with water, by trituration into a milky liquor, unites with water, by trituration into a milky liquor, but does not perfectly dissolve, as some have reported, in water, vinegar, or wine. Rectified spirit takes up much more than either of these menstrua, but not the whole; the tincture is of a bright golden colour. A mixture of two parts of rectified spirit, and one of water, dissolves all but the impurities, which are commonly in considerable quantity. In distillation with water, the oil separates and rises to the surface, in colour yellowish, in quantity one-twentieth of the weight of the galbanum. Galbanum, medicinally considered, may be said to-hold a middle rank between assafertida and ammoniacum; but its feetidness is very assafætida and ammoniacum; but its fætidness is very inconsiderable, especially when compared with the former: it is therefore accounted less antispasmodic, nor are its expectorant qualities equal to those of the latter: it however is esteemed more efficacious than either in hysterical disorders. Externally, it is often either in hysterical disorders. Externally, it is often applied, by surgeons, to expedite the suppuration of inflammatory and indolent tumours, and, by physicians, as a warm stimulating plaster. It is an ingredient in the pillula galbani composita, the emplastrum galbani compositation of the Condon Pharmacopeia, and in the emplastrum gummosum of the Edinburgh.

Bubon Macenonicum. The systematic name of the

plant which affords the semen petroselini Macedonici of the shops. Apium petreum; Petrapium. Macedonian parsley. This plant is similar in quality to the common parsley, but weaker and less grateful. The seeds enter the celebrated compounds mithridate and

theriaca.

Bubo'num. (From  $\beta ov \delta \omega v$ , the groin.) A name of the golden starwort; so called because it was supposed to be efficacious in diseases of the groin.

to be emeacious in diseases of the grounders of the groin, and BUBONOCE'LE. (From βουδων, the groin, and κηλη, a tumour.) Hernia inguinalis. Inguinal hernia, or rupture of the groin. A species of hernia, in which the bowels protrude, at the abdominal ring. See Hernia inguinalis.

BU'CCA. (Hebrew.) The cheek. The hollow inner part of the cheek, that is inflated by the act of

blowing.

BUCCACRA'TON. (From bucca, or buccella, and κραω, to mix.) A morsel of bread sopped in wine, which served in old times for a breakfast.

BU'CCAL. (From bucca, the cheek.) Belonging

to the cheek to the cheek

BUCCINALES GLANDULÆ. The small glands of the
mouth, under the cheek, which assist in secreting
saliva into that cavity.

BU'ccæ. (From bucca, the cheek; as much as can
be contained at one time within the cheeks.) I. A

mouthful; a morsel.

2. A polypus of the nose.

Buccela Ton. (From buccella, a morsel.) A purging medicine, made up in the form of a loaf; consisting of seammony, &c. put into fermented flour, and then baked in an oven,

BUCCE'LLA. Paracelsus calls the polypus in the nose by this name, because he supposes it to be a portion of flesh parting from the bucca, and insinuating itself into the nose

Buccella'rio. (From bucellatus, cut into small pieces.) Baccellatio. A method of stopping an hamorrhage, by applying small pieces of lint to the vein,

BUCCINA'TOR. (From BOUKAVOY, a trumpet; named from its use in forcing the breath to sound the trumpet.) Retractor anguli oris of Albinus, and alveolo-mazillaire of Dumas. The trumpeter's mus-The buccinator was long thought to be a muscle of the lower jaw, arising from the upper alveoli, and inserted into the lower alveoli, to pull the jaw upwards; but its origin and insertion, and the direction of its fibres, are quite the reverse of this. For this large flat muscle, which forms in a manner the walls of the cheek, arises chiefly from the coronoid process of the lower jaw-bone, and partly also from the end of the alveoli, or socket process of the upper-jaw, close by the pterygoid process of the sphenoid bone: it goes forward, with direct fibres, to be implanted into the corner of the mouth; it is thin and flat, covers in the mouth, and forms the walls of the cheek, and is perforated in the middle of the cheek by the duct of the parotid gland. These are its principal uses:—it flattens the cheek, and so assists in swallowing liquids; it turns, or helps to turn, the morsel in the mouth while chewing, and prevents it from getting without the line of the teeth; in blowing wind instruments, it both receives and expels the wind; it dilates like a bag, so as to receive the wind in the checks; and it contracts upon the wind, so as to expel the wind, and to swell the note. In blowing the strong wind-instruments, we cannot blow from the lungs, for it distresses the breathing, we reserve the air in the mouth, which we keep continually full; and from this circumstance, as mentioned above, it is named buccinator, from blowing the trumpet.

Bu'ccura. (Diminipulse of bucch the above, it is

BU'CCULA. (Diminutive of bucca, the cheek.) The fleshy part under the chin.

fleshy part under the chim.

Bucephalon, red-fruited. See Trophis Americana.

Bu'ceras. (From βovs, an ox, and κερας, a horn; so called from the horn-like appearance of its seed.)

Buceros. See Trigonella Feanumgracum.

BUCHAN, William, was born at Ancram, in 1729. After studying at Edinburgh, he settled in Sheffield, and was soon appointed physician to the Foundling Hospital at Ackworth: but that establishment being afterward given up, he went to practise at Edinburgh, where he remained several years. During that period he composed his celebrated work, called "Domestic Medicine," on the plan of Tissot's "Avis aux Peuples;" which has been very extensively circulated, translated into other languages, and obtained the anreupies;" which has been very extensively circulated, translated into other languages, and obtained the author a gold medal, with a commendatory letter, from the Empress of Russia. It has been objected, that such publications tend to degrade and injure the medical profession; but it does not appear, that those who are properly qualified can suffer permanently thereby. There seems more foundation for the opinion, that imaginary diseases will be multiplied, and patients sometimes fall victims to their complaints, being

sometimes fall victims to their complaints, being treated by those who do not properly understand them. Dr. Buchan afterward practised in London, and published some other works; and died in 1805 BUCK-BEAN. See Menyanthes trifoliata. BUCK-HORN. See Rhamms catharticus. BUCK-WHEAT. See Polygonum fagopyrum. Buck-wheat, eastern. See Polygonum fagopyrum. BUCNEMIA. (Bucnemia; from 600, a Greek augment, and snyppy, the 182.) A name in Good's Nosology for a genus of disease characterized by a tense, diffuse, inflammatory swelling of the lower extremity; usually commencing at the inguinal glands, and extending in the course of the lymphatics, it embraces two species; 1. Bucnemia sparganosis; the puer petal two speces; 1. Bucnemia sparganosis, the puerperal tumid leg.

tunni eg.
2. Bucnemia tropica, the tunid leg of hot climates.
BrcRa'Nios. (From βους, απ οχ, από κρανου, the
head, so called from its supposed resemblance to a
caif's snout.) The Snap-dragon plant. See Antir

BU CTON. The hymen, according to Pirsus.
BU CTON. The hymen, according to Pirsus.
BUGLE. See Prunella.
[BUGLE WEED. This plant is the Lycopus 155]

bleeding from the lungs, taken freely in the form of decoction. It is not, however, introduced as a medicinal plant into the American Pharmacopeaia, nor in Bigelow's Materia Medica. Physicians in general decallitie confidence in its efficacy. A line of the latter of t place little confidence in its efficacy. A.]

BUGLOSS. See Anchusa officinalis. Buglo'ssa. See Anchusa officinalis.

BUGLO SSUM. (Buglossam, i. n.; from Bovs, an ox, and γλωσσα, a tongue: so called from the shape and roughness of its leaf.) See Anchusa officinalis.

Buglossum angustifolium. See Anchusa offici-

BUGLOSSUM MAJUS. See Anchusa officinalis. BUGLOSSUM SATIVUM. See Anchusa officinatis. Buglossum sativum. The stone bugloss.

Bu gula. (A duninutive of buglossa.) See Ajuga

BUHRSTONE. Millstone. "The exterior aspect of this mineral is somewhat peculiar. It occurs in amorphous masses, partly compact, but always containing a greater or less number of irregular cavities. Sometimes the mass is comparatively compact, and the cavities small and less frequent, but they always exist even in specimens of a moderate size. These cavities are sometimes crossed by siliceous threads or membranes, much resembling the interior structure of certain bones; and are sometimes lined by siliceous incrustations, or crystats of quartz.

Its fracture is nearly even, sometimes dull, and sometimes smooth, like that of flint. Its colour is gray or whitish, sometimes with a tinge of blue, and sometimes yellowish or reddish. Near Paris, the Buhrstone occurs in beds, unusually horizontal, and seldom more than 9 or 10 feet thick. It contains no Its cavities are often crossed by organic remains. threads, and filled with argillaceous marl or sand; but are very seldom lined by crystals of quartz.

In Georgia, (United States,) the Buhrstone is found near the boundary of South Carolina, about 40 miles from the sea. It is said to cover shell limestone. Some of its cavities are those of shells in a siliceous ttate, and lined by siliceous incrustations, or crystals of quartz. Others are traversed by minute threads, or contain a friable substance somewhat argillaceous. its hardness and cavities, when not too numerous, render it peculiarly useful for making millstones. Hence also it is sometimes known by the name of Milstone."—See Cleav. Min. A.] BULBIFERUS. (From bulbus, and fero, to bear.) Bull-bearing. Having one or more bulbs; applied to

BULBOCA'STANUM. (From βολβος, a bulb, and BULBOUA STANUM. (From poloops, a only, and ragrams, a chesnut; so called from its bulbous appearance.) See Bunium bulbocastanam.

BULBOCAVERNO'SUS. (So called from its origin and insertion.) See Accelerator arina.

BULBOSI'S. (From bulba, a bulb.) Bulbous: applied in anatomy to soft parts which are naturally

enjarged, as the bulbous part of the urethra. In bota-

entarged, as the buttous part of the urethra. In botany, to roots which have a bulb; as stutip, onion, hily, &c.

Burboo &. (From bulbus.) The name of a class of Cassalpmus's systematic method, consisting of heroaccous vegetables, which have a buttous root, and a pericarpium, divided into three cells; also, the name of one of the natural orders of plants.

BULBULUS. A little bulb.

BULBULEUS. (Bobbog, a bulb, or somewhat rounded toot). A slobular, or nertiform grated bult, soil or

root.) A globular, or pyriform coated body, solid, or formed of fleshy scales or layers, constituting the lower part of some plants, and giving off radicals from the circumference of the flattened basis. A bulb differs from a tuber, which is a farinaceous root, and bends off radicles in every direction.

Bulbs are divided into,

1. The solid, which consists of a solid fleshy nutritious substance; as in Crecus sativus, Colchicum autumnale, Tulipa gesneriana.

The scalu, which consists of fleshy concentrical scales attached to a radical plate; as in Allium ecpa.

3. The squamose, consisting of concave, overlapping

tales; as in Ldum candidum, and Ldum bulbiforum.

4. The compounded, consisting of several lesser bulbs, lying close to each other as in Allum sativum.

The bulbs of the orchis tribe differ from the common bulbs in not sending off radicles from the lower part,

below into finger-like lobes; as in Orches maculata.

Bulbus esculentus. Such buibous roots as are commonly eaten are so called.

BULBUS VOMITORIUS. See Hyacinthus muscari. BULBUS VOMITORIUS. See Hyacinthus muscari.

BULGE-WATER-TREE.

BULIMIA. (From Bov, a particle of excess, and λιμος, hunger.) Bulimiasis; Boulimos; Bin Bolismos of Avicenna. Fames canina; App caninus; Phagidana; Adephagia; Bopcina; Fames canina; Appetitus resia. Insatiable hunger, or canine appetite.

Tr. via. Insatiable hunger, or canne appetre.

Dr. Cullen places this genus of disease in the class

Locales, and order Dysorexio; and distinguishes
three species. 1. Bulimia helluonum; in which there three species. 1. Bulinua hellmanum; in which there is no other disorder of the stomach, than an excessive craving of food. 2. Bulinua syncopules; in which there is a frequent desire of food, and the sense of hunger is preceded by swooning. 3. Bulinua emetica, also egnorexia; in which an extraordinary appetite for foot in the specific bulinum of the property of the sense of the s for food is to lowed by vomiting. The real causes of this discuss are, perhaps, not properly understood. In some cases, it has been supposed to proceed from an acid in the stomach, and in others, from a superabundance of acid in the gastric juice, and from indigested sordes, or worms. Some consider it as depending more frequently on monstrosity than disease. An exmore frequently on monstrosity than disease. An extraordinary and well attested case of this disease, is related in the third volume of the Medical and Physical Journal, of a French prisoner, who, in one day, consumed of law cow's udder 4 lbs., raw beef 10 lbs., candles 2 lbs.; total, 16 lbs.; besides 5 bottles of porter. Bulima addephagia. A voracious appetite.

Bulima canina. A voracious appetite, with sub-

sequent vomiting.

BULIMIA CARDIALGICA. A voracious appetite, with

BULIMIA CONVULSORUM. A voracious appetite, which attends some convulsive diseases.

BULIMIA EMETICA. A voracious appetite, with vomiting.

BULIMIA ESURIGIO. Gluttony.

BULIMIA HELLUONUM. Gluttony.
BULIMIA SYNCOPALIS. A voracious appetite, with

BULIMIA VERMINOSA. A voracious appetite from

BULIMI'ASIS. See Bulimia. BU'LIMU'S. See Bulimia.

BULIMUS. See Bultimia.
BULI THUM. (From βους, an ox, and λιθος, a stone.) A bezoar, or stone found in the kidneys, or gall, or urinary bladder, of an ox, or cow.

BULLA. A bubble. A clear vesicle, which arises from burns, or scalds; or other causes.

[This word is also applied by Linnæus to a genus of univalve shells. A.]
BU'LLACE. The English name of the fruit of the

BULLACE. The English name of the fruit of the Prunus insitia of Linneus, which grows wild in our hedges. There are two varieties of bullace, the red and the white, which are used with the same inten-

and the winter, which are used with the same inten-tion as the common damsons.

BULLATUS. (From bulla, a bubble, or blister.)

Blistery. Applied to a leaf which has its veius so tight, that the intermed are space appears blistered.

This appearance is frequent in the garden cabbage.

BULLO'SA FERRIS. An epithet applied to the vessi-cular fever, because the skin is covered with little ve-

sicles, or blisters. See Pemphogus.

Buni'tes vinum. (From bunium, wild parsley.)

BUSINESS VISUAL (From bulkarm, what parssey.)
When made of bunium and must.
BU NIUM. (From βωνως, a little hill; so called from the tuberesity of its root.) 1. The name of a genus of plants in the Linnacan system. Class, Pentantizia, Order, Dispana.

2. The name of the wild parsley.

BUND M BULBOCASTANUM. The systematic name BUSINEM BULBOCKSTANUM. The systematic name of a piant, the toot of which is called the pig nut. Agracastanum; Nucula terresters; Bulbocastanum majus et minus. Earth-nut; Hawknut; Kipper-nut; and Pig-nut. The root is as large as a nutmer; hard, unberons, and whitish; which is eaten raw, or roasted. It is sweetish to the taste, nourishing, and supposed to be of use against strangury

and bloody urine. The roots, which are frequently ploughed up by the peasants of Burgundy, and called by them arrotta; and those found in Scotland, and called arroots, are most probably the roots of this species of burnum. They are roasted, and thus acquire course removed: and sometimes where a limb is irre-

the flavour of chesnuts.

BU'NUS. A species of turnip.

BU'PEINA. (From βου, a particle of magnitude, and σεινα, hunger.) A voracious appetite.

BU'PHAGOS. (From βου, a particle of excess, and φειγα, ho eat.) The name of an antidote which created a voracious appetite in Marcellus Emperieus.

BUPHTHA JMUWM. (From βους, an ου, an οφθαλμος, an eye; so called from its flowers, which are supposed to resemble an eye.) The hert, ox-eye daisy.

BUPHTHALMUM CRETICUM. Pellitory of Spain. See Anthemis pyrethrum.

BUPHTHALMUM GERMANICUM. The common ox-eye

BUPHTHALMUM MAJUS. Great, or ox-eye daisy.

See (hrysanthemum trucanthemum.
- BUPHTHALMUS. (From βους, an ox, and οψθαλμος, an eye; so named from its large appearance like an ox's eye.)

1. Houseleek.

2. Diseased enlargement of the eye. BUBLEURUM. (From Boy, large

BUBLEU RUM. (From fov, large, and πλευρον, a rib; so manued from its having large rib like filaments upon its leaves.) 1. The name of a genus of plants in the Linnaran system. Class, Syngenesia; Order, Polygamia superflua.

The pharmacoparial name of the herb hare's ear.

See Bupleurum rotundifolium.

BUPLEURUM ROTUNDIFOLIUM. The systematic name Between a northern order in some pharmacopoias, of the plant called perjolitata, in some pharmacopoias. Buplearoides. Round-leaved hare's ear, or thorow wax. This plant was formerly celebrated for curing ruptures, mixed into a poultice with wine and oatmeal.

nd oafmeal. BU RDOCK. See *Arctium lappa.* BU RGUNDY PITCH. See *Penus abies.* Be'rts. According to Avicenna, a scirrhous hernia,

or hard abscess

BURN. Ambustio. A burn, or scald, is a lesion of the animal body, occasioned by the application of heat, but the latter term is applicable only where this is conveyed through the medium of some fluid. The conveyed through the medium of some fluid. The con-sequences are more or less scrious according to the exact of the injury, or the particular part affected; sometimes even proving fatal, particularly in irriable constitutions. The life of the part may be at once destroyed by these accidents, or mortification speedily destroyed by mose accidents, or mortingation specify follow the violent inflammation ex incl; but when slighter, it usually produces an effusion of serum un-der the cuticle, like a blister. When the injury is ex-tensive, considerable fever is apt to supervene, some times a comatose state; and a remarkable difficulty of breathing often precedes death. In the treatment of these accidents, two very different methods have been pursued. The more ancient plan consists in antiphlopursued. The more alerter part consists in empirical sisting means, giving cooling purgatives, &c. and even taking blood, where the initiation is great; employing at the same time cold applications, and where the skin is destroyed, emollient dressings; opium was also recommended to relieve the pain, notwithstanding stupor might attend.

Mr. Cleghorn, a brewer at Edinburgh, was very successful in these cases by a treatment materially different; first bathing the part with vinegar, usually a little warmed, till the pain abated; then, if there were any destruction of the parts, applying poultices, and finely powdered chalk immediately on the sore, to absorb the discharge: in the meantime allowing the patient to live pretty well, and abstaining from active purgatives, &c. More recently, a surgeon at Newcastle, of the name of Kentish, has deviated still more from the ancient practice; applying first oil of turpentine, alkohol, &c. heated as much as the sound parts could bear, and gradually lessening the stimulus; in the mean time supporting the patient by a cordial det, sether, &c. and giving opium largely to lessen the initiation. Now, and giving opinion delay or asserting the cases chiefly under his care were of persons scorehed very extensively by the explosion of carburetted hydrogen in aims; and probably where the injury is over a large part of the surface, or where the constitution is weakly, it may be hazardous to pursue

without while intended to keep hown action, are wear-ing out the power of the part. If any extraneous sub-stance be forced into the burnt part, it should be of course removed: and sometimes where a limb is irre-coverably injured, amputation may be necessary. BU'RNEA. Pitch.

Burnet saxifrage. See Pimpinella.

Burning. Brenning. An ancient medical term, denoting an infectious disease, got in the stews by conversing with lewd women, and supposed to be the same with what we now call the venereal disease.

same with what we now call the venereal disease. Burnt hartshorn. See Cornu ustum. Burnt sponge. See Spongia usta. Bu'rrhus's spirit, for disorders of the womb. A compound of myrrh, olibanum, amber, and spirit of wine. BU'RSA. From βυρσα, a bag.) A bag. 1. The

2. An herb called Thlaspi bursæ pastoris, from the resemblance of its seminal follicles to a triangular purse.

Bursa Mucosa. A mucous hag, composed of proper membranes, containing a kind of mucous fat, formed by the exhaling arteries of the internal coat. The burse mucose are of different sizes and firmness, and are connected by the cellular membrane with arti-cular cavities, tendons, ligaments, or the periosteum. Their use is to secrete and contain a substance to labricate tendons, muscles, and bones, in order to render their motions easy.

### A Table of all the Bursæ Mucosæ.

#### In the Head.

1. A bursa of the superior oblique muscle of the eye, situated behind its trochlea in the orbit.

2. The bursa of the digastricus, situated in the internal surface of its tendon.

3. A bursa of the circumflexus, or tensor palati, situated between the hook-like process of the sphenoid bone and the tendon of that muscle. 4. A bursa of the sterno-hyoideus muscle, situated

between the os hyoides and larynx.

# About the Shoulder-joint.

1. The external acromial, situated under the acromion, between the coracoid process, deltoid muscle, and capsular ligament.

2. The internal acromial, situated above the tendon of the infra-spinatus and teres major: it often com-

municates with the former.

3. The coracoid bursa, situated near the root of the coracoid process; it is sometimes double and some-

The clavicula bursa, found where the clavicle touches the coracoid process.

5. The subclavian bursa, between the tendon of the subclavius muscle and the first rib.

6. The coraco-brachial, placed between the common origin of this muscle and the biceps, and the capsular

7. The bursa of the pectoralis major, situated under the head of the humerus, between the internal surface of the tendon of that muscle, and another bursa placed on the long hear, of the biceps.

8. In external bursa of the teres major, under the

head of the os humeri, between it and the tendon of the teres major

9. An internal bursa of the teres major, found within the muscle where the fibres of its tendons diverge. A bursa of the latissimus dorsi, between the

tendon of this muscle and the os humeri 11. The humero-bicipital bursa, in the vagina of the

tendon of the biceps. There are other burse mucose about the humerus, but their situation is uncertain.

#### Near the Elbow-joint.

1. The radio-bicipital is situated between the tendon the biceps, bra-hialis, and anterior tubercle of the

2. The cubito-radial between the tendon of the biceps, supmator brevis, and the ligament common to the radius and olna.

The anconeal bursa, between the olecranon and tendon of the anconous muscle.

4. The capitulo-radial bursa, between the tendon | common to the extensor carpi radialis brevis, and ex-tensor communis digitorum, and round head of the radius. There are occasionally other burse; but as their situation varies, they are omitted.

# About the inferior part of the Fore-arm and Hand.

#### On the inside of the Wrist and Hand,

A very large bursa, for the tendon of the flexor pollicis longus.

2. Four short burse on the forepart of the tendons of the flexor sublimis.

3. A large bursa behind the tendon of the flexor pollicis longus, between it and the forepart of the radius, capsular ligament of the wrist and os trapezium.

A large bursa behind the tendons of the flexer digitorum profundus, and on the forepart of the end of the radius, and forepart of the capsular ligament of the wrist. In some subjects it communicates with the

5. An oblong bursa between the tendon of the flexor

carpi radialis and os trapezium.

6. A very small bursa between the tendon of the flexor carpi ulnaris and os pisitorme.

# On the back part of the Wrist and Hand.

7. A bursa between the tendon of the abductor pollicis longus and the radius

A large bursa between the two extensores carpi

9. Another below it, common to the extensores carpi radiales.

10. A bursa, at the insertion of the tendon of the

extensor carpi radialis. 11. An oblong bursa, for the tendon of the extensor pollicis longus, and which communicates with 9.

12. A bursa, for the tendon of the extensor pollicis longus, between it and the metacarpal bone of the

13. A bursa between the tendons of the extensor of the fore, middle, and ring fingers.

14. A bursa for the extensors of the little finger.

15. A bursa between the tendon of the extensor carpi ulnaris and ligament of the wrist.

here are also bursæ mucosæ between the musculi lumbricales and interossei.

#### Near the Hip-joint.

## On the forepart of the joint.

1. The ileo-puberal, situated between the iliacus internus, psoas magnus, and the capsular ligament of the head of the femur.

2. The pectineal, between the tendon of the pectineus and the thigh-bone.

3. A small bursa of the gluteus mediu muscle, situated between it and the great trochanter, before the insertion of the pyriformis.

4. Abursa of the gluteus minimus muscle between

its tendon and the great trochanter

5. The gluteo-fascial, between the gluteu maximus and vastus externus.

#### On the posterior part of the Hip-joint.

6. The tubero-ischiatic bursa, situated between the obturator internus muscle, the posterior spine of the ischium, and its tuberosity.

7. The obturatory bursa, which is oblong and found between the obturator internu and gemini muscles,

and the capsular ligament.

8. A bursa of the semi-membranosu under its origin and the long head of the biceps femoris.

9. The gleutee trochanteral bursa, situated between

the tendon of the psoas muscle and the root of the great trochanter.

10. Two glutes femoral burse, situated between the tendon of the gluteus maximus and os femoris.

11. A burse of the quadratus femoris, situated between it and the little trochanter.

13. The iliac bursa, situated between the tendon of the iliacus internus and the little trochanter.

# Near the Knee-joint.

1. The supra-genual, which adheres to the tendons of the vastus and cruralis and the forepart of the thigh-bone. YAR

2. The infra-genual bursa, situated under the ligament of the patella, and often communicating with the

3. The anterior genual, placed between the tendon of the sartorius, gracilis, and semitendinosus, and the internal and lateral ligament of the knee.

4. The posterior genual, which is sometimes double, and is situated between the tendons of the semi-membranosus, the internal head of the gastrocnemius, the

capsular ligament, and internal condyle.

5. The popliteal, conspicuous between the tendon of that muscle, the external condyle of the femur, the semilunar cartilage, and external condyle of the tibia.

6. The bursa of the biceps cruris, between the external part of the tendon, the biceps cruris, and the external lateral ligament of the knee.

#### In the Foot.

### On the back side, and hind part of the Foot,

1. A bursa of the tibialis anticus, between its tendon, the lower part of the tibia, and capsular ligament of the ankle.

2. A bursa between the tendon of the extensor pollicis pedis longus, the tibia, and capsular ligament of the ankle.

3. A bursa of the extensor digitorum communis, between its tendons, the tibia, and ligament of the

4. A large bursa, common to the tendons of the peronei muscles

5. A bursa of the peroneus brevis, proper to its tendon.

6. The calcaneal bursa, between the tendo Achillis and os calcis.

### In the Sole of the Foot.

1. A bursa for the tendon of the peroneus longus.
2. A bursa common to the tendon of the flexor policis pedia longus, and the tendon of the flexor digitorum pedis communis longus profundus.

A bursa of the tibialis posticus, between its ten-

don, the tibia, and astragalus.

4. Free burse for the flexor tendons, which begin a little above the first joint of each toe, and extend to the root of the third phalanx, or insertion of the

BURSA'LIS. From its resemblance to a bursa, or

purse. See Obturator externus et internus.

BURSA'LOGY. (Bursalogia; from Buoga, a bag, and  $\lambda oyo_5$ , a discourse.) The doctrine of the burse

BUSELI'NUM. (From βου, great, and σελινον, parsley.) A large species of parsley.

BUSSII SPIRITUS BEZOARDICUS. The bezoardic

spirit of Bussius, an eminent physician at Dresden A distillation of ivory, sal-ammoniac, amber, &c. BUTCHERSBROOM. See Ruscus.

Bu'TIGA. Small red pimples on the face. Called

Bu'rica. Small red pimples on the lace. Called also gutta rosaces.
Bu'riso. Turpentine.
Bu'riso. Turpentine.
Bu'riso. See Ire's pseudacorus.
ButTER. (Butyrum; from βous, a cow, and ru-ρos, coagulum, or cream.) "The oily, inflammable part of milk, which is prepared in many countries as an article of food. The common mode of preserving it is by the addition of salt, which will keep it good a considerable time, if in sufficient quantity. Mr. Eaton informs us, in his Survey of the Turkish Empire, that most of the butter used at Constantinople is brought from the Crimea and Kirban, and that it is keet sweet. most of the butter used at Constantinople is brought from the Crimea and Kirban, and that it is kept sweet by melting it while fresh over a very slow fire, and removing the scum as it rises. He adds, that by melt-ing butter in the Tartarian manner, and then satting ing butter in the Tartarian manner, and then sating it in ours, he kept it good and fine-tasted for two years; and that this melting, if carefully done, injures neither the taste nor colour. Thenard, too, recommends the Tartarian method. He directs the melting to be done on a water-bath, or at a heat not exceeding 1800 F.; and to be continued until all the caseous matter has and to be continued until all the caseous matter has subsided to the bottom, and the butter is transparent. It is then to be decanted, or strained through a cloth, and cooled in a mixture of pounded ice and sail, or at least in cold spring water, otherwise it will become lumpy by crystallizing, and likewise not resist the action of the air so well. Kept in a close vessel, and in a cool place, it will thus remain, six months or more,

nearly as good as at first, particularly after the top is rises and forms bubbles, which pass through the water, taken off. If beaten up with one-sixth of its weight and break as soon as they couch the water. of the cheesy matter when used, it will in some degree resemble fresh butter in appearance. of rancid butter, he adds, may be much corrected by melting and cooling in this manner.

Dr. Anderson has recommended another mode of curing butter, which is as follows: Take one part of sugar, one of intre, and two of the best Spanish great sail, and rub them together into a fine powder. This composition is to be mixed thoroughly with the butter, as soon as it is completely freed from the milk, in the as soon as it is completely freed from the finits, in the proportion of one ounce to sixteen; and the butter thus prepared is to be pressed tight into the vessel prepared for it, so as to leave no vacuaties. This butter does not taste well till it has stood at least a formight; it then has a rich marrow flavour, that no other butter of the property ter ever acquires; and with proper care may be kept for years in this climate, or carried to the East Indies, if packed so as not to melt.

In the interior parts of Africa, Mr. Part informs us, there is a tree much resembling the American oak, producing a nut in appearance somewhat like an olive. The kernel of this nut, by boiling in water, affords a kind of butter, which is whiter, firmer, and of a richer flavour, than any he ever tasted made from cow's milk, and will keep without salt the whole year.

The natives call it shea toulou, or tree butter. Large quantities of it are made every season."

Fresh butter is nourishing and relaxing, but it readily becomes sour, and, in general, agrees with few stomachs. Rancid butter is one of the most unwhole-

stomachs. Rancid butter is one of the most unwholesome and indigestible of all foods.

Butter of antimony. See Murius antimonii.

BUTTER OF CACAO. An oily concrete white matter,
of a firmer consistence than suct, obtained from the
cacao nut, of which chocolate is made. The method
of separating it consists in bruising the cacao and boiling it in water. The greater part of the superabundant and uncombined oil contained in the nut is by this dant and uncombined oil contained in the nut is by this means liquefied, and rises to the surface, where it swims, and is left to congeal, that it may be the more easily taken off. It is generally mixed with small pieces of the nut, from which it may be purified, by keeping it in fusion without water in a pretty deep vessel, until the several matters have arranged them-selves according to their specific gravities. By this

treatment it becomes very pure and white.

Butter of cacao is without smell, and has a very mild taste, when fresh; and in all its general properties and habitudes it resembles fat oils, among which it must therefore be classed. It is used as an ingredi-

ent in pomatums.
BUTTER-BUR.

BUTTER BUR. See Tussilago petasites. BUTTER-FLOWER. See Ranguculus.

BUTTER-FLOWER. See transmuss.

Butter milk. The thin and sour milk which is separated from the cream by churning it into butter.

BUTTERWORF. See Pinguicula.

[BUTTON SNAKE-ROOT. See Eryngium aquati-

Cum. A.]
BUTUA. See Cissampelos pariera.
BUTUALIC ACID. We owe the discovery of this acid to M. Chevreul. Butter, he says, is composed of two fat bodies, analogous to those of hog's loid, of a bodies, analogous to those of hog's loid, of a composition of the company of the co colouring principle, and a remarkably odorous one, to which it owes the properties that distinguish it from the fats, properly so called. This principle, which he has called butyric acid, forms well characterized salts with barytes, stontian, line, the oxides of copper, lead, &c., 100 parts of it neutralize a quantity of base which contains about 10 of oxygen. M. Chevreul has not explained his method of separating his acid from the other constituents of butter. See Journ. de Phar-macie, iii 80. BUTY'RUM. See Butter.

BUTY RUM. See Butter.

BUTYBUM ANTIMOSM. See Murias antimonii.

BUXTON. A village in Derbyshire in which there are warm mineral springs. Burtonicases aque.

They have been long celebrated for their medicinal properties. With respect to sensible properties, the Buxton water cannot be distinguished from common apring water, when heated to the same temperature. 18 temperature, in the gentleman's bath, is invariably 82°. The principal peculiarity in the appearance of this spring, is a large quantity of elastic vapour, that

and break as soon as they reach the surface. The air of these bubbles was ascertained, by Dr. Pearson, to consist of azotic gas, mixed with a small proportion of atmospheric air. Buxton water is frequently employed both internally and externally one of which methods often proves beneficial when the other would be thods often proves femelicial when the other would be injurious; but, as a bath alone, its virtues may not be superior to those of tepid common water. As the temperature of 820 is several degrees below that of the human body, a slight shock of cold is felt on the first immersion into the bath; but this is almost immediately succeeded by a pleasing glow over the whole system. It is therefore proper for very delicate and irritable habits. The cases which derive most benefit from the external use of Buxton waters, are those in which a loss of action, and sometimes of sensation, affects particular limbs, in consequence of long-continued or violent inflammation, or external injury. Hence the chronic rheumatism succeeding the acute, and where the inflammation has been seated in particular limbs, is often wonderfully relieved by this bath The internal use of the water has been found to be of considerable service in symptoms of defective digestion and derangement of the alimentary organs. A judicious use of this simple remedy will often relieve the heartburn, flatulency, and sickness; it will increase the appetite, animate the spirits, and improve the health. At first, however, it sometimes occasions a diarrhæa, which is rather salutary than detrimental; but costiveness is a more usual effect, especially in sluggish habits. It also affords great relief when taken internally, in painful disorders of the bladders and kid news; and has likewise been recommended in cases of gout; but when taken for these complaints, the addition of some aromatic tincture is recommended. In ail cases of active inflammation, the use of these waters should be carefully avoided, on account of their supposed heating properties. A full course consists of two glasses, each containing one-third of a pint, before breakfast; which quantity should be repeated between breakfast; which quantity should be repeated between breakfast and dinner. In chronic cases, a long residence on the spo is requisite to insure the desired effect. BUXUS. (Ε΄ οπ ωναζω, to become hard.) The box-tree. I. The name of a genus of plants in the Linnaean system. (Elass, Monacota; Order, Triendric. 2. The pharmacopoial name of the hox. See Buxus

BUXUS SEMPERVIRENS. The systematic name of the buxus of the pharmacopæias. The leaves possess a very strong, nauseous, bitter taste, and aperient virtues. They are occasionally exhibited, in form of dethes. I ney are occasionary exhibited, in form or que-coction, among the lower orders of people, in cases of dropsy, and asthma, and worms. As much as will lie upon a shilling, of the common dwarf box, dried and powdered, may be given at bed-time, every night, to an infant

By'arts. A plexus of blood vessels in the brain.
By'arts. A Chinese mane for green tea.
Byre's first (Bereta, ital. or barette, Fr. a csp.)
Byrethrus. An odoriferous cap, filled with cephalic
drugs, for the head.
By'rsa. (Βυρσα, leather.) A leather skin, to

spread plasters upon.

BYSAU CHEN. (From βυω, to hide, and αυχην, the neck.) Morbid stiffness of the neck.
BYSSOLITE. A massive mineral of an olive green colour, found at the foot of Mount Blanc and near

Oisans in gneiss By'ssus. (Hebrew.) 1. A woolly kind of moss. 2. The Pudendum mulicbre. 3. A kind of fine linen.

The fine silky threads by which the Mytilus and Pinna, both bivalve shells, fasten themselves, and thereby remain attached to logs or stones in the water.

thereby remain attached to logs or stones in the water. The Pinna affords the most and finest quantity of this byssus; and, in the Mediterranean, it has been collected and spun into silk, of which various ornamental-arcides have been made. A.] By Thos. (Br $\theta_{00}$ , deep.) An epithet used by Hippocrates for the bottom of the stonach. By  $7 \times 10^{-3}$  K. (From  $\beta_{00}$ , to rush together.) In a heap; throngingly. Hippocrates uses this word to express the hurry in which the menses flow in an excessive discharge.

CABALUSTICA ARS. (It is derived from the t Hebrew wood signifying to receive by tradition, ada; County; Kabulo. The tabalistic art. A Cabala; Cabalt; Kabala. Canada: Cesada: Reizhus. Eine Chanistie an: A term thai hach boson amegatty used, in a very mysta-rious sease, among divinas; and same, some enthusi-astre philosophies, and chomats transplanted it had mediane, importing by it somewhat magical; but such unmean, is terms are now melly rejected.

Cabal stic art. See Co Sina ars.

CABALLINE. (Caballerus; from Kabakkos, a horse.) Of, or belonging to, a horse; applied to the coarsest aloes, because it is so drastic as to be fit only

Caballine aloes. See . 110ë

Cabbage tree. See Grassica.
Cabbage tree. See Granicana jamaicensis.
Carago σα. (From κακκη, excrement, and αγω, to

2. Ointiments which, being rubbed on the fundament, precure stools — Paulus . Egeneta. CACALIA. (From xxxxx), bad, and \(\lambda xx\), exceedingly; because it is mischevous to the soil on which it grows.) Cacamum. The herb wild chervil, or wild

CA CAMUM. See Cacnica.
CA CAO. See Treobroma cacao.
CACAO. See Treobroma cacao.
CACAPHO'NIA. (From κακος, bad, and φωνη, the

voice.) Defective articulation.

Cacato'ria. (From caco, to go to stool.) An epithet given by Sylvius to a kind of intermittent fever, attended with copious soods.

attended with copouts smoots.

CACCIONDE. A pill recommended by Baglivi against dysenteries; its basis is carechin.

CACHE XIA. (From rares, bad, and fits, a habit.)
A bad habit of bedy, known by a deprayed or vittated state of the solids and fluids.

CACHE XI.E. (The plurat of rachevin.) A class of diseases in Cullen's Nosology, embracing three orders, viz. A receive, Interness and all supregeness.

CACHENA TIO. (From carbonom, to describ about.) A tendency to immoderate laughter, as in some hysteric and manuscal affections.

CACHERNA A Hot, even some pubble. Galen says,

CA CHLEX. A little stone, or public. Galen says, that the cachieces, heated in the fire and quenched in

when become astringents, and useful in dyseneries.
CACHOLONG. A variety of quartz.
CACHORE. A name of calcelon.
CACHRYS. (Kayang: which is used in various geness.) 1. Galen says, it sometimes means parched backer.

2. The name of a genus of plants in the Linnwan

Rystem. Class, Pentantria; Order, Digunia.

Cachrys opontalogea. A plant, the root of which may be substituted for that of the pyrethrum against

to the check the control of the pyricinal against too linelie.

CACHU, See Access cateches.

CACHUNDE, A medicine highly celebrated among the Chinese and Indians, made of several aroamong the Chinese and Indiaus, made of several aromatic ingredients, pertinues, medicinal earths, and precious stores. They make the whole into a single paste, and force outsof it several figures, according to their fance, which are dried for use. There are principally used in the East Indies, but are sometimes brought over to Postugat. In China, the principal persons usually carry a small piece in their months, which is a constant denderd, and avers their months are years small it is lightly estatemed as a medicine in nervous complaints; and it is recisoured a profunct of life and a proviocative to venery, the two great intentions of most of the med clause and in the blast.

Cycly Mar. Recognize Am imported mean, or an immature metalline one, area day a Paracelsus.

Cyclolativity intent. (From secon, bad, and all \$\varepsilon \varepsilon \vareps

7ησεω, to preserve.) An antidote to poison or against

CACOCHO LAA. (From κακ25, and χολη, bile.)

A vitiated or university condition of the bile.

CACOCHY LIA. (From more, bard, and χωλη, the chyle.) Indigestion, or depreced the intertion. CACOCHY MIA. (From marco bard, and χυμος, juice, or humour.) A diseased or deprayed state of the humours.

CACOCNE'MUS. (From Kakoc, bad, and Kynun, the leg.) Having a natural defect in the tibia.

CACOCORE MA. (From KRKO5, bad, and KROEW, to purge, or cleanse.) A medicine which purges off the

villated numburs.
(A(O)). Σ MON. (From κακος, bad, and δαιρων, α spirit.) An exil spirit, or genus, which was supposed to preside over the bodies of men, and afflict them with co-triin disorders. The nightmare.

with contain disorders. The nightmane, CACODIMA (From  $KRKS_0$ , bad, and  $\omega_0^2\omega_0$ , to smell.) A defect in the sense of smeiling. CACODIMES: (From  $KRKS_0$ , ill, and  $\eta \theta_{0S}$ , a word which, when applied to diseases, signifies a quality, or a disposition.) Hippocrates applied this word to malmant and difficult distempers. Galen, and some others, express by it an incurable ulcer, that is rendered to itempt the actinomy of the humours flowing others, express by it an incurable ulcer, that is rendered so through the acrimony of the humours flowing ton. Limitaris and Vogel use this term interin the same sense with Galen, and describe the ulcer as superficial, spreading, weeping, and with callous edges.

CACOPATHIA. From κακος, bad, and παθος, affection.) An ill affection of the body, or part.

CACOPHO'NIA. (From κακος, bad, and φωνη, the voice.) 1. A defect in the organs of speech.

2. A bad pronunciation.

CACOPRA'GIA. (From κακος, bad, and πρατ7ω, to perform.) Diseased viscora.

Cycopra'GIAS. (From κακος, bad, and πρατ7ω, to

CYCORRY THIMDS. (From κακος, bad, and ρυθμος, order.) A disordered pulse.

CACC'SIS. (From κακος, bad.) A bad disposition

of body. CACOSI'TIA. (From κακος, and σι7ιον, food.)

CACOST TIA. (From κακος, and σί/τον, food.) An averson to food, or musea. CACOSPHY'NIA. (From κακος, bad, and σφυχες, pulse.) A disorder of the pulse. CACOSTO MACHUS. (From κακος, bad, and spayare, a.t.e stometh.) A bad or disordered stomach; applied also to food which the stomach rejects.

CACO STOMUS. (From κακος, bad, and ςομα, a mouth.) Having a bad formed, or disordered mouth. CACOTHY MAA. (From κακος, ill, and ξομος, the mixel.) Any vicious disposition of the mind; or a diseased mind.

(Assessed mino.)
CACOTRO PHIA. (From κακος, ill, and τροφη, nutrement.) 1. A viriated nourishment.
2. A wasting of the body, from want of nutrition.
CACTUS. From κακτος, the Greek name of a plant described by Theopirasta.) The name of a zerus of plants in the Linuxeau system. Class, Icosandein; Order, Monogynia. The melon-thistle, or nickly new.

CACTUS OPUNTIA. The systematic name of the appartia of the pharmacoposias. The prickly leaves of this plant abound with a mucilaginous matter, which is esteemed in its native countries an emollicit,

which is the form of poultise.

CACU'BALUS. (Prom κακος, evil, and βαλλω, to cast out; so named because it was thought to be efficacious in expelling poisons.) See Cueubalus bac-

The Arabian for cardamonis.

CACUMEN. (Cacumen, minis. neut.) The top or

ponnt.

(ADA/VER. (Cadaver, veris, neut., from cada, to fall: because the body, when deprived of life, falls to the ground.) A carcass, of body apprived of life, CA/DMIA. (Hebrew.) The lapis calaminaris.

See Zinc.

CADMIA METALLICA. A name given, by the Ger mans, to cohalt.

("ADMIUM. "A new metal, first discovered by M.

Stromeyer, in the autumn of 1817, in some carbonate of zinc which he was examining in Hanover. It has

been since found in the Derbyshire silicates of zinc.

The following is Dr. Wolkasten's process for procuring cadmium. From the solution of the salt of curring cannium. From the Samuel Samu peculiar character on the application of the proper tests.

M. Stromeyer's process consists in dissolving the substance which contains cadmium in sulphuric acid, substance which contains cadmium in sulphuric acid, and passing through the acidahous solution a current of sulphuretted hydrogen gas. He washes this precipitate, dissolves it in concentrated muriatic acid, and expels the excess of acid by evaporation. The residue is then dissolved in water, and precipitated by carbonate of ammonia, of which an excess is added, to redissolve the zinc and the copper that may have been precipitated by the sulphuretted hydrogen gas. The carbonate of cadmium being well washed, is heated, to drive off the carbonic acid, and the remaining oxide is reduced by mixing it with jamu-black, and exposing is reduced by mixing it with lamp-black, and exposing it to a moderate red heat in a glass or earthen retort.

The colour of cadmium is a fine white, with a slight The colour of cadmium is a line white, with a slight shade of bluish-gray, approaching much to that of tin; which metal it resembles in lostre and suscepti-bility of polish. Its texture is compact, and its frac-ture hackly. It crystallizes easily in octohedrons, and presents on its surface, when cooling, the appearance of leaves of fern. It is flexible, and yields readily to of teaves of term. It is farefree and more tenacious than fir ; and, like it, stains paper, or the fingers. It is ductile and matleable, but when long hammered, it scales off in different places. Its sp. grav. before hammering, is 8.6040; and when hammered, it is 8.6044. It melts, and the scale is sent in the scale is scale of the scale of t and is volatilized under a red heat. Its vapour, which has no smell, may be condensed in drops like mercury, which, on congealing, present distinct traces of crystallization.

Cadmium is as little altered by exposure to the air When heated in the open air, it burns like as tin. When heated in the open art, it burns like that metal, passing into a smoke, which falls and forms a very fixed oxide, of a brownish-yellow colour. Nitric acid readily dissolves it cold; dilute sulphuric, muriatic, and even acetic acids, act feeby on it with the disengagement of hydrogen. The solutions are recognized by water by the property of the propert Cadmium forms a single oxide, in which 100 parts

Cammun toms a single owner, in which two parts of the metal are combined with 14.352 of oxygen. The prime equivalent of cadmium deduced from this compound secuns to be very nearly 7, and that of the oxide 8. This oxide varies in its appearance according to circumstances, from a brownish-yellow to a dark brown, and even a blackish colour. With charcoal it is reduced with rapidity below a red heat. It gives a transparent colourless glass bead with borax. It is insoluble in water, but in some circumstances forms

It is insoluble in water, but in some circumstances forms a white hydrate, which speedily attracts carbonic acid from the air, and gives out its water when exposed to heat. Urc's Chem. Dict.

CADOGAN, WILLIAM, graduated at Oxford in 1755. Five years before, he had published a small treatise on the management of children, which was very much approved. In 1764, his "Dissertation on the Gout and all Chronic Diseases" appeared, which extended considerable attention, being written in a the Gout and all Chronic Discases" appeared, which attracted considerable attention, being written in a popular style. "He referred the gout principally to indolence, vexation, and intemperance; and his plan of treatment is generally judicious. He was a fellow of the Longton College of Physicians, and died in 1797,

at an advanced age

CADTCHU. See Acacia catechu. CADU'CA. (From cado, to fall down.) See De-

The name of a class in Linnæus's Metho-CADUCI.

dus calycina. CADU'CUS. CADUCUS. (From cado, to fall.) 1. In Botany, The falling off before the unfolding of the flower or leaf; as the perianthium of Papaver, the stipulæ of Prunus assum. This term is expressive of the shortest period of duration, and has different accepta-tions, according to the different parts of the plant to which it is applied. A calyx is said to be caducous, which drop at the first opening of the petals, or even before, as in the poppy. Petals are caducous, which are scarcely unfolded before they fall off, as in Thalietum; and such leaves as fall off before the end of summer, have obtained this denomination. See De-

placed in the right iliac region, about four fingers' breadth in length It is in this intestine that the ileum terminates by a valve, called the valve of the cæcum. The appendicula caci vermiformis is also attached to See Intestenes.

R. Sectimestimes.

CAFILIVS, AURELIANUS, is supposed to have been born at Sicca, in Africa, and is referred by Le Clerc to the fifteenth century, from the harshness of his style. He has left a Latin translation of the writings of Soranus, with additional observations, partly colof softmus, with additional observations, party con-lected from others, partly from his own experience. The work is in eight books, three on acute, the rest on chronic disorders. He treats of several diseases not mentioned by any earlier writers, and has some observations in surgery peculiar to himself; he appears, too, generally correct in his remarks on the opinions

Kaipos. Hippocrates, by this word, means CE'ROS.

U.E. Ros. Karpo. Hippocrates, by this word, means the opportunity or moment in which whatever is to be effected should be done.

C.E.SALPI'NA. (Named in honour of Cæsalpinus, chief physician to Pope Clement VIII.) The name of a genus of plants in the Linnæan system. Class,

of a genus of plants in the Linnuan system. Class, Decandria; Order, Monogynia.

Casalpina Crista. The systematic name of the tree that affords the Brazil wood. It is of the growth of the Brazils in South America, and also of the Isle of France, Japan, and elsewhere. It is chiefly used as a red dye. See Brazil rood.

CÆSALPINUS, ANDREW, was born in Tuscany, in 1519. He graduated at Pisa, and became professor in anatomy and medicine there; and was afterward made physician to Pope Clement VIII. He died in 1603. His works are numerous, and evince much genius and Jeanning. In 1571, he published a work, defending the philosophy of Aristotle against the doctrines of Galen, from some passages in which he appears to have approached very near to a knowledge of the circulation of the blood; having explained the use of the valves of the heart, and pointed out the course which these compelled the blood to take on both sides during the contraction and dilatation of that both sides during the contraction and dilatation of that organ. In a treatise "De Plantis," he justly compared the seeds to the eggs of animals; and formed arrangement of them according to the parts of fructification. On medical subjects also he offered many substitutions are the contractions of the contraction of the contraction. judicious remarks.

CÆ'SARES. Cæsones. Children who are brought

into the world as Julius Cæsar is said to have been,

See Casarian operation.

CÆSA'RIAN OPERATION. (So called because Julius Cesar is said to have been extracted in this manner.) Hysterotomia. Hysterotomia. The operation for extracting the focus from the uterus, by dividing the integuments of the abdomen and the

There are three cases in which this operation may be necessary.—1. When the fœtus is perceived to be be necessary.—1. When the featus is perceived to be alive, and the mother dies, either in labour or in the last two months. 2. When the featus is dead, but cannot be delivered in the usual way, from the deformity of the mother, or the disproportionate size of the child. 3. When both the mother and the child are living, but delivery cannot take place, from the same causes as in the second instance. Both the mother and the child, if accounts can be credited, have often lived after the Cæsarian operation, and the mother even borne children afterward. Heister gives a relation of such success, in his Institutes of Surgery a relation of such success, in his institutes of Surgery; and there are some officers. In England, the Cassarian operation has almost always failed. Mr. James Barlow, of Chorley, Lancashire, succeeded, however, in taking a feetus out of the uterus by this bold proceeding, and the mother was perfectly restored to health Сж'тени. See Acaoia catechu.

CAF; Cafa; Caffa. Names given by the Arabians to camphire.
CAFFEIN. The name of a bitter principle proare scarcely untoted before they fall off, as in Thalictum, and such leaves as fall off before the end of gummer, have obtained this denomination. See Deciduus and Parasitious.

2. The epilepsy or falling sickness is called morbus caducus.

2. Every experiment of the control of the large intestines, and in the many of the properties of the control of the large intestines, and blind gut. The first portion of the large intestines, in the case of the control of the large intestines, in the case of the case o

yet gelamine occasions no precipitate with it.

["Cathem is a new principle, which was discovered in coffee by Robiquet. It is white, volatile, and crystallizabie; and is particularly distinguished by the lantzone; and is particularly distinguished by the large quantity of introgen which it contains, being greater han that in admost an other vegetable. According to Durmas and Pelledier, it consists of 27 td oxygen, 48-ll hydrogen, 46-51 carbon, and 21-54 nitrogen.—Webster's Man. of Chem. A.]

CAGVSTRUM. A barbarous term used by Paracelsus,

to express the morbific matter which generates diseases.

CATICHU. See Jeann cutteku.
CAIU'S, John, was born at Norwich, in 1510. After studying at Cambridge, and in different parts of Italy, and distinguishing himself by his interpretations of Hippocrates, Gaien, and other ancient authors, he granulated at Bologna. In 1544, he returned to this country, and for some time read lectures in anatomy to the cerporation of surgeons in London. ward practised at Shrewshnry, having been admitted a fellow of the College of Physicians; and published a popular account of the memorable sweating sickness, Which prevailed in 1551, subsequently reprinted, rauch improved, in Latin. He was made physician to Lid-ward V1, to Marc, and be Bizzbeth. On the death of Linacte, he was chosen President of the College or Physicians, and during the seven years for which he held that office, performed many important services. He was also a signal benefactor to Gonvil Hull, where he studied at Cambridge, having obtained permission to erect it into a college, considerably cularging the building, and assigning provision for three tellows and twenty scholars. He was chosen master on the completion of the improvements, and retained that office ull near the period of his death, which happened in 1573. He published a dissertation "De Cambus Britannicis," which Mr. Pennant has entirely followed in his British Zoology and some other learned works besides those already mentioned.

CA'JAN. See Phascolus creticas. Ca'jeput oil. See Melaleuca.

CALL BA. See Catophullum inophyllum.
CALAGUYLE RADIX. Calagnala racks. The root so called is knotty, and somewhat like that of the polypody tribe. It has been exhibited internally at Rome, with success, in dropsy; and it is said to be efficacious in pleurisy, contusions, abscesses, &c. It was first used in America, where it is obtained; and Italian physicians have since written concerning it,

Raham physicians have some written concerning n, in terms of approbation.

Callama'corus. Indian reed.

Callama'Gorus. The dian reed apposis, a seried grass. Reed grass. Gramen shrumman. The drando calemagrastis of Linaeus: the root of which is said to be diuretic and emmena-the root of which is said to be diuretic and emmena-

gogue.
CALAMARIE. (From calamus, a reed.) The name of an order of Linnaus's fragments of a natural memod, which embraces the reed-plants.

CALA MBAC. An Indian name for agallochum. See

Lignum Aloes. CALAME DON. CALAME DON. (From καλαμος, a feed.) A sort of fracture which runs along the bone, in a straight line,

like a reed, but is lunated in the extremity.

CA'LAMINA. See Calamine.

CALAMINA PR. EPARATA. Prepared calamine. Burn the calamine, and reduce it to powder; then let it be brought into the state of a very line powder, in the same manner that chalk is directed to be prepared.

See Calamine

CA'LAMINE. (Calamina; from calamus, a reed so called from its recel-tike appearance. Cathma: Cathma: Cathma lapidosa arosa; Cathma fossilis; Catumona; Lapis colominario. A rative carbonate of zinc. A mineral, containing oxide of zinc and carbonic acid, united with a portion of iron, and some times other substances. It is very heavy, moderately hard and brittle, of a gray, yellowish, red, or blackish brown; found in quatries of considerable extent, in several parts of Europe, and particularly in this counsevera parts of the proposition of the transfer of Tagland is by the best judges, allowed to be superior in quality to that of most other countries. It sel- which forms the heel. It is situated posteriorly under

alkohol. The solution had a pleasant bitter taste, and assumed with alkalies a garnet red celour. It is almost as delicate a test of from as intersect of galls is; yet gelamine occasions no precipitate with it.

[a Canielin is a new principle, which was discovered in coffee by Robiquet. It is white, volatile, and crystally red and the surface of the shops, it is a new principle, which was discovered in coffee by Robiquet. It is white, volatile, and crystall red and red as a surface of the shops in the surface of the shops, it is called the surface of the shops. It is white, volatile, and crystall red and red as a surface of the shops it is supposed to contain, and in order to render it more easily reducible into a five powder. In this state, it is employed in collyria, for weak eyes, for prome ing the creatization of ulcers, and healing ex-corrations of the skin. It is the basis of an officinal cerate, called Ceratum calaminæ by the London College, formerly called ceratum lapidis caliminaris, ceratum carloscum; and ceratum carbonass zinci impuri by the Edinburgh College. These compositions form the cerate which Terner strongly recommends for the cesate which Thereit strongly recommends for healing interations and executions, and which have neen popularly distinguished by his name. The colliptia in which the prepared calamine has been employed, have consisted simply of that substance added to rose-water, or elder-flower water. CALAMINT: See Melissa e. Janiatha. Calamant, maintain. See Melissa grandiflora. CALAMINTHA. (From kades, brautital, or kadagos, a reed, and  $\mu_{\rm B}\theta_{\rm B}$ , mint.) Common calamint.

CALAMINTHA ANGLICA. See Mclissa nepeta.
CALAMINTHA HUMILIOR. The groundity. See Che ema hederacea.

CALAMINTHA MAGNA FLORE. See Melissa grandiflora.

flora.

CALAMINTHA MONTANA. See Melissa Colamintha.
CA LAMI S. (From Kolum, an Arabian word.)
1. A general name denoting the stalk of any plant.
2. The name of a genus of plants in the Limaean system. Class, Hexandra; Order, Monogoptia.
CALAMUS AROMATICES. See Jecorus calamus, or calamus aromaticus. "The Acorus calamus is found in Europe, Asia, and North America. With us it grows in wet meadows, commonly in beds or bunches. The root has a strong aromatic durin, and a bitter spicy taste. Its properties depend durin a volatile oil. spicy taste. Its properties depend upon a volatile oil, and a bitter matter soluble in water. Medicinally considered, it is stimulant, heating and tonic; and is given in flatulent code, cramp of the stomach. &c., in the dose of a scruple and upwards."—Big. 1 at. Med. A.]
Calamus aromaticus asiaticus. See Acorus ca-

CALAMUS ODORATUS. The sweet-scented rush.

See Acorus calamas The systematic name of the CALAMUS ROTANG. plant from which we obtain the Dragon's blood. Cinnabaris gracorum; Draconthama; Asegon; Asegon. Dragon's blood. The red resinous juice which is obtained by wounding the bark of the Calamus rotany canance densessine aculeata, aculeus creetis, spunice creetis. The Fetrocarpus draco and Dracama draco also atlord this resin. It is chiefly obtained from the Molucca islands, Java, and other parts of the East Indies. It is generally much adulterated, and varied in geodiness and punity. The best kind is of a dark red colour, which, when powdered, changes to crimson: it is insoluble in water, but soluble in a great measure in alkohol; it leadily melts and catches thane, has no smell, but to the taste discovers some dence of warmth and puncency. The ancient Greeka tained by wounding the bark of the Calamus rotang ;flaine, has no smell, but to the taste inscovers some de-gree of warmth and pungency. The ancient Greeks were well acquainted with the adstringent power of this drug; in which character it has since ocen much empleyed in hamorrhages, and in alvine fluxes. At present, however, it is not used internally, being superseded by more certain and effectual remedies of this

CALAMUS SCRIPTORIUS. A furrow or kind of canal at the bottom of the fourth ventricle of the brain, so called from its resemblance to a writing pen.

CALATHANA. (From kayladbe, a twig basket; so called from the shape of its dowers.) The herb

CALBI'ANGM. See Cirul and preumonauthe.
CALBI'ANGM. The name of a plaster in Myrepsus.
CALCA'DINUM. Vitriol.

CALCA'DIS. An Arabian name for white vitriol and

the astragalus, is very regular, and divided into a body and processes. It has a large tuberosity or knob, pro-jecting behind to form the heel. A simuous covery, as its fore part, which, in the fresh subject, is filled with fat, and gives origin to several ligaments prominences, at the inner and fore-part of the bone, with a pit between them, for the articulation of the with a problem of the astropadas. A depression, in the external surface of the home near its fore-part, where the tendon of the personals longue rins. A large cavity, at the inner side of the home, for loaking the long flexors of the toes, together with the vessels and nerves of the sole. There are two promunences, at the under and back part of this bone, that give origin to the aponeurosis, and several infiscles of the sole. The anterior surface of the os calcis is concave, for its articulation with the os cuboides, and it is articulated

arteniation with the os chomics and it is better to the astragalus by ligaments.

Calcan them. From  $\chi \alpha \lambda \kappa \sigma_5$ , brass, and  $\alpha \nu \theta \sigma_5$ , a flower; i. e. flowers of brass.) Calcanthos. Copflower; i. e. fl peras; Vitriol.

CALCAR. (Calcar, aris. n. From calz, the heel; also from calco, to heat.) 1. The heel-bone.

2. The furnace of a laboratory.

3. A spur. In botany, applied to a part of the ringent and personate corolla of plants. It is a tube forming an obtuse or acute sac, at the side of the receptacle.

It is of rare occurrence.

CALCARATUS. Spurred; applied to the corols and nectures of plants; as Calcarata corolla, Nectarium calcaratum; as in Aquilegia and Antirrhinum

CALCAREOUS. (Calcarius; from calx, lime.) That which partakes somewhat of the nature and qualities of cala.

Calcareous earth. See Calx and Lime. Calcareous spar. Crystallized carbonate of lime. which occurs in more than 600 different forms. which occurs in more than one director forms. It is found in vieins in all rocks from granite to alluvial strata. The rarest and most beautiful crystals are found in Derbyshire, but it exists in every part of the

CALCA'RIS FLOS. The larkspur. CALCA RIUS. See Calcarcous. CALCARIUS LAPIS. Limestone.

CA'LCATAR. A name of variol.

CA LECATAR. A name of victor.

CALCEROPY. A mineral, so called from Calcelon, in Asia Minor, where it was found in ancient tians. There are several subspecies, common calcedony, heliotrope, crysoprase, plasma, onyx, sand, and

Common calcedony occurs of various colours; it is regarded as pure silica with a little water. Very fine statactical specimens have been found in Cornwall and Scotland.

(From calceus, a shoe, and CALCEUM EQUINUM.

Calcering Equinum. (From calceus, a shoe, and cquas, a horse; so called from the ligure of its leaf.) The heeb coles foot. See Tussidago farfara. Calculantal. Pliny's name for copperas. Calculantal. Priny's name for copperas. Calculantal. Priny sa name for copperas, Calculantal. Priny sa name for copperas of to break; so named from its supposed property of breaking the human calculus.) Breakstone. In Seriboreus Largues, it means, the herb spheenwort, or sections of the supposed properly of the principal again. lopendreum; others mean by it the Pimpiaella saxi-fraga of Linnaus. CALCINA'TION, Oxidation. The fixed resi-

dues of such matters as have undergone combustion are called cinders, in common language, and calces, but now more commonly oxides, by chemists; and the operation, when considered with regard to those residues, is termed calcination. In this general way, it has likewise been applied to bodic; not really combus-If his fixewise trendplied to modes not really combina-fible, but only deprived of some of their prins ples by heat. Thus we hear of the calcination of chark, to convect it into line by driving off its carbonic acid and water; of gypsum, or piaster stone, of along, of borax, and other salme bodies, by which they are deprived of their water of crystallization; of bones which lost their relation parts, but this treatment, and at various their volatile parts by this treatment, and of various

CALCINA'TUS. Calcined.

CALOUNCE MALIES. Whatever is dulcified by the chemical art, which was not so by nature; such as dulcified mercury, lead, and the like substances, which are very speedily consolidated.

CALCINATEM MAJUS POTERIT. Mercury dissolved in aqua lortis, and precipitated with salt-water. Poterius used it in the cure of indices.

CALCINATEM MINUS. Any thing which is sweet by

nasure, and speedily cures, as sugar, manna, tamarinds, &cc.

rinds, &c.

CALENSONIA. See Calcena.

CALUS AQUA. See Calces liquor.

CALUS LQUA. See Calces l

Lime is soluble in about 450 times its weight of water, or little more than one grain in one fluid ounce. It is given internally, in doses of two ounces and upmarks in thermally, in doses of two ounces and up-wards, in cardialgia, spasms, diarrhea, &c. and in proportionate doses in convulsions of children, arising from acidity, or ulcerated intestines, intermittent fe-vers, &c. Externally it is applied to burns and

CALCS MURIAS. Calx solita; Sal ammoniacus ficus. Muriate of lime. Take of the salt remaining after the sublimation of subcarbonate of ammonia two arrer the submandor of superbolated a minimonia way pounds, water a pint; mix and filter through paper. Evaporate the salt to dryness; and preserve it in a closely-stopped vessel. This preparation is exhibited with the same views as the mirrate of barytes. It possesses deobstruent, diurelic, and cathartic virtues, and as much used by the celebrated Fourcory against scrophula, and other analogous diseases. Six, twelve, and twenty grains, are given to children, three times a day, and a drachm to adults.

day, and a drachm to adults.

Calcus Murhards Ligron. Take of muriate of lime two ounces, distilled water three fluid ounces; dissolve the salt in the water, and filter it through

paper.

Calcis os. See Calcaneum.

Calcis vivi flores. The pellicle on the surface of lime water

of time water.

CALCITRA'PA. (An old botanical term of similar meaning to tribulus, compounded of calco, to tread or kick, and τορτω, to turn, because the caltrops are continually kicked over, if they fail of their intended mischief. See Trapa.) See Centaurea calcitrapa.

CALOUTRAEA OFFICINALIS. See Centaurea solsti-

CALCIUM. The metallic basis of lime. CALCIUM. The metainic basis of time. Set in. Davy, the discoverer of this metal, procured it by the process which he used for obtaining barium. It was in such small quantities, that little could be said concerning its nature. It appeared brighter and whiter than either barium or stroutum; and burned when gently heated, producing dry lime.

There is only one known combination of calcium and oxygen, which is the important substance called lime. The nature of this substance is proved by the phenomena of the combustion of calcium; the metal changing into the earth with the absorption of oxygen gas. When the amalgam of calcium is thrown into water, hydrogen gas is disengaged, and the water becomes a solution of time. From the quantity of hydrogen evolved, compared with the quantity of functioned in experiments of this kind, M. Berzelius endeavoured to ascertain the proportion of oxygen in lime. The nature of time may also be proved hy ang-The nature of lime may also be proved by ana-When potassium in vapour is sent through the earth ignited to whiteness, the potassium was found earth ignited to whiteness, the potassitim was found by Sir H. Davy to become potassa, while a dark gray substance of metallic splendour, which is calcium, either wholly or partially deprived of oxygen, is found imbedded in the potassa; for it effervesces violently, and forms a solution of lime by the action of water.

CALCSINTER. Stalactifical carbonate of lime,

CALCEINTEE. Statectureal caroundate of ime-which is continually forming by the infiltration of car-bonated line water through the crevices of the roofs of caverns. The irregular masses on the bottoms of caves here been called stabarmites. CALCEUFF. An allowed formation of carbonate of time, probably deposited from calcareous springs of a yellowish dull gray colour, containing impressions

of vegetable matte CALCULI'FRAGUS.

(From calculus, a stone, Stone-breaker, having the and frango, to break.)

power to break stone in the human body. 1. A synonym of lithoutriptic. See Lithontriptio

2. The scolopendrium, and pimpernel. See Calci-

CA'LCULUS. (Diminutive of calz, a lime-stone Calculus humanus; Besoar microcomicum. Gravel; Stone. In English we understand by gravel, small sand-like concretions, or stones, which pass from the kidneys through the ureters in a few days; and by stone, a calculous concretion in the kidneys, or blader of the large a via the without great difficulties. stone, a calculous concretion in the kidneys, or blauder, of too large a size to pass, without great difficulty. Similar concretions are found occasionally in other cavities or passages. When a disposition to form minute calculi or gravel exists, we often find nephritic paroxysms, as they are called, (see Nephritis) which consist of pain in the back, shooting down through the pelvis to the thighs; sometimes a numbness in one leg, and a retraction of either testicle in men, symptoms arising from the irritation of a stone men, symptoms arising from the irritation of a stone men, symptoms arising from the irritation of a stone passing through the ureters, as these cross the sperma-tic cord, on the nerves passing to the lower extremities. These pains, often violent, are terminated by the pain-ful discharge of small stones through the urethra, and the patient is for a time easy. What, however, is meant by the stone is a more serious and violent dis-It is singular that these discharges of small gra-not usually terminate in stone. Many have exease. It is singular that these discharges of sinan gra-wel do not usually terminate in stone. Many have ex-perienced them during a long life, without any more serious inconvenience: while the latter is a disease chiefly of the young, and depending on circumstances not easily explained. If the stone attacks persons more advanced in age, it is often the consequence of paroxysms of gout, long protracted, and terminating imperfectly.

its excrements; or, if it be empty, occasions a tener mus, which is sometimes accompanied with a prolap-sus ani. The urine is often tinetured with blood, from a rupture of the vessels, and sometimes pure blood itself is discharged. Sometimes the urine is very clear, but frequently there are great quantities of slimy sedibut frequently there are great quantities of slimy sediment deposited at the bottom of it, which is, only a preternatural separation of the mucilage of the bladder, but has often been mistaken for pus. The stone is and calcult have even been found in the bladders of very young children, any, of infants only six months old. Women seem less subject to this complaint than men, either owing to constitutional causes, or to the capaciousness, shortness, and straightness of their urethre, allowing the calcult to be discharged while small, teacher with the urine.

together with the urine

together with the urine.

The Seat and Physical Properties of Urinary Calculi.

Calculi are found in different parts of the urinary
system, in the pelvis of the kidney, in the urcters, in
the bladder and urethra; but as they, for the most
part, originate in the kidney, the calculi renales make
the nucleus of the greatest number of urinary stones. the nucleus of the greatest number of urinary stones. The calculi renales differ greatly with respect to their external qualities; for the most part, however, they consist of small, concrete, roundish, smooth, glossy, and crystalline bodies, of a red-yellow colour, like that of wood, and so hard as to admit of polishing. On account of their minuteness, they easily pass through the urinary passages in form of gravel, which being sometimes of a rough surface, cause several complaints on their passage. But in some instances they are of too great a size to be able to pass along the uretimes to a great size. Calculi renales of this kind are generally of a brown, dark red, or black colour, and times to a great size. Calculi renales of this kind are generally of a brown, dark red, or black colour, and surrounded with several strata of coagulated blood and pus; they have also been observed of a yellow, reddish, and lighter colour; and some consisting of a homogeneous stony mass, but white or gray calculi renales are very rarely to be met with. Amough the great number that were examined, one or two only were found of a gray or blackish colour, and of a composition similar to those which generally bear the name of mulberry-like stones. of mulberry-like stones.

The stones in the wreters, which, on passing into the ureters, are prevented by their size from descending into the bladder, frequently increase very much: they, however, rarely occur; their colour is white, and they consist of phosphate of lime.

The stones in the bladder are the most frequent urinary concrements that have been principally examined; they draw their first origin from the kidneys, whence they descend into the bladder, where they in-crease; or they immediately originate and increase in crease: or they immediately originate and increase in the bladder; or they arise from a foreign body that by chance has got into the bladder, which not unfrequently happens, particularly in the female sex. Concretions of this kind differ greatly in their respective physical qualities and external forms, which, however, is generally spherical, oval, or compressed on both sides; and sometimes, when there are several stones in the bladder, they have a polyhedrous or cubical form; their extremities are frequently pointed or roundish, but they are very seldom found cylindrical, and more rarely with cylindrical ends. and more rarely with cylindrical ends.

and more rarely with cylindricat ends.

There is a great variety in the size of the calculi, and likewise in their colour, which is materially different, according to their respective nature and composition. They occur, 1. of a yellowish colour, approaching nearly to red, or brown; such stones consist of lithic acid. 2. Gray, or more or less white; these stones always contain phosphates of carths. 3. Dark gray, or blackish; stones of this colour have oxalates of carths. Many stones show brown or gray spots, on of earths. Many stones show brown or gray spots, on a yellow or white ground, generally raised on the surface, and consisting of oxalate of lime, which is enclosed in lithic acid, when the ground colour of the stone is of a wood colour, or in phosphate of lime, when it is white. These spots are, in general, only to be observed in the middle of the stone, or at one of

its extremities.

All that is here stated, is the result of observations on more than 600 calculi; and different other colours, that are said to have been observed, either arise from that are said to have been observed, either arise from heterogeneous substances, or are merely variations of the above colours. Their surface is smooth and polished in some; in others, only smooth; and in others uneven, and covered with rough or smooth corpuscles, which are always of a yellow colour; in some, the surface is partly smooth and partly rough. The white ones are frequently even and smooth, half transparent, and covered with shining crystals, that generally indicate phosphate of ammonia, with magnesis; or they are faint, and consist of minute grains; or rough, in which case they consist of phosphate of lime. The brown and dark gray stones are, from their simibrown and dark gray stones are, from their similarity to mulberries, called mulberry-stones, and being frequently very rugged, they cause the most pain

On examining the specific weight of urinary calculi in more than 500 specimens, it was found to be, in the lightest, as 1213.1000, in the heaviest, as 1976.1000. ligatest, as 1205-1000, in the next set as 201-1000. Their smell is partly strong, like urine or ammonia, partly insipid, and terreous; especially the white ones, which are like sawed ivory, or rasped bone. The internal texture of calculi is but seldom guessed

from their external appearance, particularly when they exceed the size of a pigeon's egg. On breaking them, they generally separate into two or three strata, them, they generally separate into two or three strata, more or less thick and even, which prove that they are formed by different precipitations, at different times. In the middle, a nucleus is generally seen, of the same mass as the rest. When the place they are broken at is finely streaked, and of a yellow or reddish colour, the lithic acid predominates; but when they are half transparent, luminous like spar, they have ammoniacal phosphate of magnesia in them, and phosphate of lime, and then they are brittle and friable. but when they are so hard as to resist the instruphosphate of lime, and then they are brittle and friable; but when they are so hand as to resist the instrument, of a smooth surface, and a smell like ivory, they contain oxalate of lime. It frequently happens, that the exterior stratum consists of white phosphate of earth, while the nucleus is yellow lithic acid, or oxalate of lime, covered sometimes with a yellow stratum of lithic acid, in which case the nucleus appears radiant; but when it consists of lithic acid, and is covered with white phosphate of earth, it is roundish, oval, and somewhat crooked. These concretions have very seldom three strata; namely, on the outside a phosphate, towards the inside lithic acid, and quite withmiside an oxalate of lime; but still rarer these substances occur in more strata, or in another order, as | cases of kidney calculi, 51 were lithic acid, 6 oxalic before-mentioned.

Stones of the urethra are seldom generated in the urethra itself; however, there are instances of their having been formed in the fossa navicularis, by means having been formed in the fossa navicularis, by mean-of foreign bodies that have got into the urethra. We also very frequently observe stony concrements depo-sited between the glans and prepuce. All the concre-tions produced in the inside and outside the urethra consist of phosphate of earths, which are easily pre-cipitated from the urine. There are likewise stones in the urethra which have come out of the bladder, having been produced there, or in the kidneys; and they generally possess the properties of stones of the kidneys

The different constituents of Urinary Calculi.
"If we except Scheele's original observation concerning the uric or lithic acid, all the discoveries re lating to urinary concretions are due to Dr. Wollaston: discoveries so curious and important, as alone are suf discoveries so currous and unportant, as more are sur-ficient to entitle him to the admiration and gratitude of mankind. They have been fully verified by the subsequent researches of Fourcroy, Vauquelin, and Brande, Drs. Henry, Marcet, and Prout. Dr. Marcet, in his late valuable essay on the chemical history and medical treatment of calculous disorders, arranges the concretions into nine species.

The lithic acid calculus.

 The ammonia-magnesian phosphate calculus.
 The bone earth calculus, or phosphate of lime The fusible calculus, a mixture of the 2d and 3d

5. The mulberry calculus, or oxalate of lime.
6. The cystic calculus; cystic oxide of Dr. Wollaston.

7. The alternating calculus, composed of alternate layers of different species

The compound calculus, whose ingredients are so intimately mixed, as to be separable only by chemical

Calculus from the prostate gland, which, by Dr.

9. Calculus from the prostate gland, which by Dr. Wollaston's researches, is proved to be phosphate of lime, not distinctly stratified, and tinged by the secretion of the prostate gland.

To the above Dr. Marcet has added two new subspecies. The first seems to have some resemblance to the cystic oxide, but it possesses also some marks of distinction. It forms a bright lemon yellow residuum on evaporating its nitric acid solution, and is comon evaporating its intire acid solution, and is composed of laminae. But the cystic oxide is not laminated, and it leaves a white residuum from the nitric acid solution. Though they are both soluble in acids as well as alkalies, yet the oxide is more so in acids than the new calculus, which has been called by Dr. Marcet, from its yellow residuum, zanthic oxide. Dr. Marcet's other new calculus was found to possess the properties of the fibrin of the blood, of which it seems to be a

of the form of the blood, of which it seems to be a deposite. He terms it fibrinous calculus.

Species 1. Uric acid calculi. Dr. Henry says, in his instructive paper on urinary and other morbid concretions, read before the Medical Society of London, March 2, 1819, that it has never yet occurred to him to examine calculi composed of this acid in a state of absolute purity. They contain about 9-10ths of the pure acid, along with urea, and an animal matter which is not gelatin, but of an albuminous nature. This must not, however, be regarded as a cement. The calculus is aggregated by the cohesive attraction of the lithic acid itself. The colour of lithic acid calculi is yellowish or reddish-brown, resembling the appearance of They have commonly a smooth, polished sur-Awood. They have commonly a smooth, poisshed surface, a harellar or radiated structure, and consist of fine particles well compacted. Their specific gravity varies from 1.3 to 1.8. They dissolve in alkaline lixivia, without evolving an ammoniacal odour, and exhale the smell of horn before the blowpipe. The relative frequency of lithic acid calculi will be seen from the following statement. Of 150 examined by Mr. Brande, 16 were composed wholly of this acid, and almost all contained more or less of it. Fourcroy and almost all contained more or less of it. Fourtry and Vauquelin found it in the greater number of 500 which they analyzed. All those examined by Scheele consisted of it alone; and 300 analyzed by Dr. Pearson, contained it in greater or smaller proportion. According to Dr. Henry's experience, it constitutes 10 urinary concretions out of 26, exclusive of the alternating calculi. And Mr. Brande lately states, that out of 58 leaving the kidney, it is of a grayish-brown colour.

and I cystic. Species 2. Ammonia-magnesian phosphate. This calculus is white like chalk, is friable between the fingers, is often covered with dog-tooth crystals, and contains correctly the contains of th fingers, is often covered with dog-tooth crystals, and contains semi-crystalline layers. It is insoluble in alkalies, but soluble in nitric, muriatic, and acetic acids. According to Dr. Henry, the earthy phosphates, comprehending the 2d and 3d species, were to the whole number of concretions, in the ratio of 10 to 85. Mr. Brande justly observes, in the 16th number of his Journal, that the urine has at all times a tendency to deposite the triple phosphate upon any body over which it passes. Hence drains by which urine is earried off, are often incrusted with its regular crystals; and in cases where extraneous bodies have sot into the and in cases where extraneous bodies have got into the bladder, they have often in a very short time become bladder, they have often in a very short time become considerably enlarged by deposition of the aame substance. When this calculus, or those incrusted with its semi-crystalline particles, are strongly heated before the blowpipe, ammonia is evolved, and an imperfect fusion takes place. When a little of the calcareous phosphate is present, however, the concretion readily fuses. Calculi composed entirely of the ammoniamagnesian phosphate are very rare. Mr. Brande has seen only two. They were crystallized upon the surface and their fracture was somewhat foliated. In magnesian phosphate are very rare. Ar. Brance masseen only two. They were crystallized upon the surface, and their fracture was somewhat foliated. In its pure state, it is even rare as an incrustation. The powder of the summonia-phosphate calculus has a brilliant white colour, a faint sweetish taste, and is somewhat soluble in water. Fourcroy and Yauquelin suppose the above deposites to result from incipient putrefaction of urine in the bladder. It is certain that the triple phosphate is conjumply precluitated from

putretaction of urine in the bladder. It is certain that the triple phosphate is copiously precipitated from urine in such circumstances out of the hody.

Species 3. The bone earth calculus. Its surface, according to Dr. Wollaston, is generally pale brown, smooth, and when sawed through it appears of a laminated texture, easily separable into concentric crusts. Sometimes, also, each lamina is striated in a direction Sometimes, also, each lamina is striated in a direction perpendicular to the surface, as from an assemblage of crystalline needles. It is difficult to fuse this calculus by the blowpipe, but it dissolves readily in dilute muriatic acid, from which it is precipitable by ammonia. This species, as described by Fourcroy and Vauquelin, was white, without lustre, friable, staining the hands, paper, and cloth. It had much of a chaiky appearance, and broke under the forceps, and was intimately unived with a gelatinguage matter, which is left in a ance, and broke under the forceps, and was intimately mixed with a gelatinous matter, which is left in a membraneous form, when the earthy salt is withdrawn by dilute muriatic acid. Dr. Henry says, that he has never been able to recognise a calculus of pure phosphate of lime in any of the collections which he has examined; nor did he ever find the preceding species in a pure state, though a calculus in Mr. White's collection contained more than 90 per cent. of ammonia-magnesia, physically in the contained more than 90 per cent.

magnesian phosphate

Species 4. The fusible calculus. This is a very friable concretion, of a white colour, resembling chalk in appearance and texture; it often breaks into layers, and peatance and texture; fromen obeass muot ayers, and exhibits a glittering appearance internally, from intermixture of the crystals of triple phosphate. Sp. grav. from 1.14 to 1.47. Soluble in dilute muriatic and nitric acids, but not in alkaline lixivia. The nucleus is generally little acid. In 4 instances only out of 187, did Dr. Henry find the calculus composed throughout of the earthy phosphates. The analysis of fusible calculus is easily performed by distilled vinegar, which at a gentle heat dissolves the ammonia-magnesian phosgenue near assorves the ammonia-magnesian prios-phate, but not the phosphate of lime; the latter may be taken up by dilute muriatic acid. The lithic acid present will remain, and may be recognised by its so-lubility in the water of pure potassa or soda. Or the lithic acid may, in the first instance, be removed by the alkali, which expels the ammonia, and leaves the

the alkali, which expels the ammonia, and leaves the phosphate of magnesia and lime. Species 5. The mulberry calculuse. Its surface is rough and tuberculated; colour deep reddish-brown. Sometimes it is pale brown, of a crystalline texture, and covered with flat octohedral crystals. This calculus has commonly the density and hardness of ivory, a sp. grav. from 1.4 to 1.98, and exhales the odour of semen when sawed. A moderate red heat converts it into carbonate of lime. It does not dissolve in alkaline litivits, but slowly and with difficulty in acids. When the oxnate of lime is voided directly after leaving the kidney. It is of a grayish-brown colour.

composed of small cohering spherules, sometimes with a polished surface rescribiling hempseed. They are easily recognised by their insolubility in murrane are easily recognised by their insolability in mutuaes acid, and their swelding up and passing into pure lime before the blowpipe. Mulberry calcult contein always an admixture of other substances besides ovalate of lime. These are, uric acid, phosphate of lime, and animal matter in dark flocculi. The colouring matter of these calculi is probably effused blood. Dr. Hunry rates the frequency of this species at 1 in 7.5 of the whole which he has compared; and out of 187 calculi, he found that 17 were formed round made of cacalate. he found that 17 were formed round nuclei of oxalate

The cystic-oxide calculus. Species 6. bles a little the triple phosphate, or more exactly magnesian limestone. It is somewhat tough when cut, and has a peculiar greasy lustre. Its usual colour is pale brown, bordering on straw yellow; and its texture is irregularly crystalline. It unites in solution with acids and alkalies, crystallizing with both. Alkohol precipitates it with nitric acid. It does not become red with nitric acid; and it has no effect upon vegetable blues. Neither water, alkohol, nor ether dissolves u. It is decomposed by heat into carbonate of ammonia and oil, leaving a minute residuum of phosphate of lime. This concretion is of very rate occurrence. Dr. Henry states its frequency to the whole as 'do 955. In two which he examined, the nucleus was the same substance with the rest of the concretion; and in a third, the nucleus was a small spherule of cystic oxide. Hence, as Dr. Marcet has remarked, this oxide appears to be in reality the has remarked, this oxide appears to be in reality the production of the kidneys, and not, as its name would import, to be generated in the bladder. It might be called with propriety roral oxide, if its eminent discoverer should think fit.

Species 7. The alternating calculus. The surface of this calculus is usually white like chalk, and fria-

ble or semicrystalline, according as the exterior coat is the calcareous or ammonia-magnesian phosphate.
They are frequently of a large size, and contain a nucleus of lithic acid. Sometimes the two phosphates form alternate layers round the nucleus. The above are the most common alternating calculi; next are the se of oxalate of lime with phosphates; then oxathe se of oxalate of lime with phosphates; then oxalate of lime with lithic acid; and lasely, those in which the three substances alternate. The alternating taken all together, occur in 10 out of 25, in Dr. Henry's list; lithicacid with phosphates, as 10 to 48; the oxidate of lime with lithic acid, as 10 to 179; the oxidate of lime with lithic acid, as 10 to 179; the oxidate of lime with lithic acid, as 10 to 179; the oxidate of lime with lithic acid and phosphates, as 10 to 295.

Species 8. The compound calculus. This consists of a mixture of lithic acid with the phosphates in acidala recognition.

variable proportions, and is consequently variable in its appearance. Sometimes the alternating layers are its appearance. Sometimes the atternating layers are so thin as to be undistinguishable by the eye, when their nature can be determined only by chemical analysis. This species, in Dr. Henry's left, forms 10 in 235. About 1400h of the calculi examined by Fourcroy and Vauquelin were compound.

Species 9 has been already described.

In almost all calculi, a central nucleus may be dis-In amost an caicult, a centar nucleus may be dis-covered, sufficiently small to have descended inrough the ureters into the bladder. The discussor stone is to be considered, therefore, essentially and originally as belonging to the kidneys. Its mercase in the blad-der may be occasioned, either by exposure to urine that contains an excess of the same ingredient as that composing the nucleus, in which case it will be uniformly constituted throughout; or if the morbid nucleus deposite should cease, the concretion will then acquire a coating of the easthy phosphates. It becomes therefore, highly important to ascertain the nature of the most predominate nucleus. Out of 185 calculi examined by Dr. Henry, IT were formed nuclei of oxalate of lime; 3 round nuclei of cystic oxide; 4 round nuclei of the earthy phosphates; 2 round extra-neous substances; and in 3 the nucleus was replaced neous substances; and in 3 the rations was replaced by a small cavity, occasioned, probably, but he shrinking of some animal matter, round which the ingredients of the calculi (fusible) had been deposited. Rau has shown by experiment, that pus may form the nucleus of a urinary concretion. The remaining 13% calculi of Dr. Henry's list, had central nuclei composal chiefly of tithic acid. It appears also, that in a very test many lists and control of the property of the cases values to by him, the disgreat majority of the cases referred to by him, the dis-

position to secrete an excess of lithic acid has been ties essential cause of the origin of stone. Honce it becomes a matter of great importance to inquire, what are the circumstances which contribute to its excessive are the creumstances which continuite to its excessive preduction, and to assection by what plan of diet and medicine this moduli action of the kidney may best be obviated or removed. A calculus in Mr White's collection had for its nucleus A bagingm of a bongic, that had slipped into the bladder. It belonged to the fusible species, consisting of,

20 phosphate of lime.

60 ammonia-magnesian phosphate.

10 lithic acid. 10 animal matter.

In some instances, though these are comparatively very few, a morbid secretion of the earthy phosphates in excess, is the cause of the formation of stone. Dr. Henry relates the case of a gentleman, who, during paroxysms of gravel, preceded by severe sickness and panoxysms of grave, preceded by severe same same comiting, voided urine as opaque as milk, which depo-sited a great quantity of an impalpable powder, con-sisting of the calcareous and triple phosphate in nearly equal proportions. The weight of the body was rapidly reduced from 188 to 100 pounds, apparently by the abstraction of the earth of his bones; for there was no emaciation of the muscles corresponding to the above

diminution.
The first rational views on the treatment of cakulous disorders, were given by Dr. Wollaston. have been followed up lately by some very judicious observations of Mr. Brande, in the 12th, 15th, and 16th numbers of his Journal; and also by Dr. Marcet, in his excellent treatise already referred to. Of the many his excellent treatise already referred to. Of the many substances contained in human urine, there are rarely more than three which constitute gravel; viz. calcareous phosphate, and inline acid. The former two form a white sediment; the latter, a red or brown. The urine is always an acidabous secretion. Since by this excess of acid, the earthy salts, or white matter, are held in solution, whatever disorder of the system, or improprisely of food and medicine, diminishes that acid excess, favours the formation of the white deposite. The internal use of acids was shown by Dr. Wollaston to be the automatice remeity in this case.

the appropriate remedy in this case.

White gravel is frequently symptomatic of disordered digestion, arising from excess in enting or drinking; and it is often produced by too farinaceous a diet. It is also occasioned by the indiscreet use of magnesia, soda water, or alkaline medicines in general. Me tical sona water, or aname membres in general. The tree practitioners, as well as their patients, ignorant of chemistry, have often committed fatal mistakes, by considering the White gravel, passed on the administration of alkaline medicines, as the dissolution of stration of alkaline medicines, as the dissolution of the calculus itself; and have hence pushed a practice, which has rapidly increased the size of the stone, Magnesia, in many cases, acts more liquiriously than alkad, in precipitating insoluble phosphate from the urine. The acids of urine, which, by their excess, held the earths in solution, are the phosphote, lithic, and carbonic. Mr. Brande has uniformly obtained the latter acid, by placing urine under an exhausted recurver; and he has formed carbonate of barytes, by dropping barytes water into urine recently voided.

The angearance of white sand does not seem de-

The appearance of white sand does not seem de-serving of much attention, where it is nearly occa-sional, following indigestion beought on by an acci-dental excess. But if it invariably follows meals, and if it be observed in the urine, not as a mere deposite, but at the time the last drops are voided, it becomes a but at the time the last drops are voided, it becomes a matter of importance as the forenumer of other and serious forms of the disorder. It has been sometimes viewesk as the effect of irritable bladder, where it was in reality the cause. Acids are the proper remedy, and undess some poculiar tonic effect be sought for in sulphusic acid, the vegetable acids ought to be prefer-red. Tactar, or its acid, may be prescribed with ad-vantage, but the best medecine is citric acid, in daily doses from 5 to 30 grains. Persons returning from warm climates, with dyspeptic and hepatic disorders, often void this white gravel, for which they have re-course to empyrated solvents, for the nost part alka-lens, and are despit injuries. They ought to adopt an acidulous diet, abstaining from soda water, alkalies, malt liquor, madeira, and port; to eat salads, with acid

fruits; and if habit requires it, a glass of clier, cham-| reties, and diluents, ought to be liberally enjoined, pague, or claret, but the less of these fermented liquous | A large quantity of mucus streaked with blood, or of the better. An effervescing draught is often very benethe neutri. Are conversing disagrate to be arbonate of field, made by dissolving 30 gains of bearbonate of potassia, and 20 of cities and, in separate teasures of water, maxim, the solution in a large tumoler, and drinking the whole during the effert second. This dose may be repeated 3 or 4 times a day. The carbonic acid of the above medicine enters the circulation, and passing off by the bladder, is useful in retaining, partheutarly, the triple phosphate in solution, as was first pointed out by Dr. Wolfasion. The beaves should be kept regular by medicine and moderate exercise. The febrile affections of children are frequently attended by an apparently formidable deposite of white said in the urine. A dose of calomel will generally carry off both the fever and the sand. Air, exercise, bark, bitters, mineral tonics, are in like manner often success ful in removing the urinary complaints of grown-up

In considering the red gravel, it is necessary to distinguish between those cases in which the sand is actually voided, and those in which it is deposited, after some hours, from originally limpid urme. In the first, the sabulous appearance is an alarming indi-cation of a tendency to form calculi; in the second, it is often merely a flee.mg symptom of indigestion. Should it frequently recur, however, it is not to be dis-

regarded.

Bicarbonate of potassa or soda is the proper remedy for the red sand, or lithic acid deposite. The alkali may often he beneficially combined with opium. Am-The alkali may often be benenicially combined with optim. Ammonia, or its crystallized carbonate, may be resorted to with advantage, where symptoms of industrian are brought on by the other alkaties; and particularly in red gravel connected with good, in which the joints and kidneys are affected by torus. Where postass and soid have been so long employed as to disagree with the stomach, to create nausea, flatulency, a sense of weight, pain, and other symptoms of indigestion, magnesia may be prescribed with the best enects. The tendency which it has to accumulate in dangerous quantities in the intestines, and to form a white sediment in urine, calls on the practitioner to look minutely after its administration. It should be occasionally afternated with other laxative medicines. Magnesia dissolved in carbonic acid, as Mr. Schoweppe used to prepare it many years ago, by the direction of Mr. Brande, is an elegant form of exhibiting this

Care must be had not to push the alkaline medicines too far, lest they give rise to the deposition of earthy phosphates in the urine.

Cases occur in which the sabalous deposite consists of a mixture of lithic acid with the phosphates. The seduneat of urine in inflamouatory disorders is sometimes of this nature; and of those persons who habitu-ally indolge in excess of wine; as also of those who labouring under hepatic affections, secrete much albumen in their urine. Purges, tomes, and nitric acid, which is the solvent of both the above sabulous matters, are the appropriate remedies. The best dier for patients labouring under the lithic deposits, is a vege-table. Dr. Wolfaston's fine observation, that the excrement of birds fed solely upon animal matter, is in a great measure inhic acid, and the custous fact since ascertained, that the excrement of the boa constrictor, fed also entirely on animals, is pure lithic acid, concur in giving force to the above dietetic prescription. A week's abstinence from animal food has been known to relieve a fit of lithic acid gravel, where the aikahes were of little avail. But we must not carry the vegetable system so far as to produce fiatulency and indigestion.

Such are the principal circumstances connected with the disease of gravel in its incipient or sabulous The calcun formed in the kidneys are, as we have said above, either littlic, oxalie, or cystic; and very rarely indeed of the phosphate species. An aqueous regimen, moderate exercise on norseback, when not accompanied with much irreation, coad bathing, and hald aperients, along with the appropriate ch useal medicines, must be prescribed to address cases. These are particularly requisits nametracely after acute pain in the region of the treue, and the flammatory symptoms have led to the belief day a flammatory symptoms have led to the belock data at order of a rabbit consisted chiefly of carbonater buckets has descended into the bladder. Purges kno- of one and animal matter, with perhaps a little phos-

a purulent aspect, and hæmorrhagy, are frequent

inploins of the passage of the stone into the bladder. When a stone has once lodged in the bladder, and increased there to such a size as no longer to be capa-ble of passing through the urethra, it is generally allowed by all who have candidly considered the subject, and who are qualified by experience to be judges, pec, and who are quarmen by experience to be junges, that the stone can never again be dissolved; and altitugh it is possible that it may become so loosened in its texture as to be world piecement, or gradually to crumble away, the event is so rare as to be barely

By examining collections of calculi we learn, that in by far the greater number of cases, a nucleus of lithic acid is enveloped in a crust of the phosphates. Our endeavours must therefore be directed towards reducing the excess of lithic acid in the urine to its natural standard; or, on the other hand, to lessen the endency to the deposition of the phosphates. The urine must be submitted to chemical examination, and a suitable course of diet and medicines prescribed. But the chemical remedies must be regulated nicely, so as to hit the happy equilibrium, in which no deposite will be fermed. Here is a powerful call on the physicians and surgeons to make themselves thoroughly versant in chemical science; for they will otherwise commit the most dangerous blunders in calculous

complaints.

'The idea of dissolving a calculus of uric acid in "The idea of dissolving a calculus of tric acid in the bladder, by the internal use of the caustic alkadies,' says Mr. Brande, 'appears too absurd to merit serious refunction.' In respect to the phonomacs, it seems possible, by keeping up an unvisual acidity in the urme, so far to solven a crast of the calculus, as to make it crumble down, or admit of being abraded by the sound; but this is the utmost that can be looked for a and the little realism will all translat. These the solid; but this is the tunies that can be tolder for; and the lithic nucleus will still remain. 'These considerations,' adds Mr. Brande, 'independent of more urgent reasons, show the futility of attempting attempting the solution of a stone of the bladder by the injection the solution of a stone of the bladder by the impection of acid and alkaline solutions. In respect to the afkalies, if sufficiently strong to act upon the uric crust of the calculus, they would certainly injure the coats of the bladder; they would otherwise become inactive by combination with the acids of the urine, and they would form a dangerous precipitate from the same cause. — It therefore appears to me, that Pourcrey and others, who have advised the plan of injection, howe thought tithe of all these obstacles to success. have thought little of all these obstacles to success, and have regarded the bladder as a lifeless receptacle, and have regal-ded the bladder as a liteless receptacie, into which, as into an India rubber bottle, almost any solvent might be injected with impunity."—Journal of Science, vol. viii. p. 2495. It does not appear that the poculiarities of water in different districts, have any influence upon the pro-duction of calculous disorders. Dr. Wollaston's dis-

covery of the analogy between urinary and gouty concertions has led to the trial in gravel of the crama col-chies, the specific for gout. By a note to Mr. Brande's dissectation we barm, that benefit has been derived from it in a case of red gravel.

Dr. Henry confirms the above precepts in the following decided language. These cases, and others of the same kind, which I think it unnecessary to mention, tend to discourage all attempts to dissolve a stone supposed to consist of uric acid, after i' i.as attained considerable size in the bladder; all that can be effected under such circumstances by alkaline medicines appears, as Mr. Brande has remarked, to be the orecipears, as Mr. Brande has remarked, to be the precipitating upon it a coating of the earling phosphates from the urine, a sort of concretion which, as has been observed by various practical writers, increases much more rapidly than that consisting of uric acid crity. The same unboarded increases may be drawn also from the dissections of those persons in whom a stone was suppressed to be dissected by alkalian medicines: for in those instances it has been deaded in the remarked of the sound either energied, or placed out of the reach of the sound of the remark of the sound by an endangement of the postage chand. The unimary calculus of a doz, exemined by Dr. Pearson, was found to consist principacy of the phosphase of one and ammount, with animal matter.

phases of one and ammona, with animal matter, several taken from horses, were of a similar composi-

phoric acid. A quantity of sabulous matter, neither crystallized nor concrete, is sometimes found in the bladder of the horse: in one instancethere were nearly 45 pounds. These appear to consist of carbonate of 45 pounds. These appear to consist of carbonate of ime and animal matter. A calculus of acart gave Foureroy three parts of carbonate, and one of the phosphate of lime. That of a pig, according to Berthollet, was phosphate of lime.

The renal calculus in man appears to be of the same nature as the urinary. In that of the horse, Foureroy found 3 parts of carbonate, and one of phosphate of lime. Dr. Pearson, in one instance, carbonate of lime, and animal matter; in two others, phosphates of lime and ammonia, with animal matter.

and ammonia, with animal matter

Arthritic calculi, or those formed in the joints of Arthritic calculi, or those formed in the joints of gouty persons, were once supposed to be carbonate of lime, whence they were called chalkstones; afterward it was supposed that they were phosphate of lime; but Dr. Woilaston has shown that they are lithate of soda. The calcul found sometimes in the pineral, prostate, salivary, and brouchial glands, in the pancreas, in the corpora cavernosa penis, and between the muscles, as well as the tartar, as it is called, that incrusts the teeth, appear to be phosphate of lime. Dr. Crompton, however, examined a calculus taken from the lungs of a deceased sodiler, which consisted of lime 45. carof a deceased soldier, which consisted of lime 45, car-bonic acid 37, albumen and water 18. It was very hard, irregularly spheroidal, and measured about 6½ inches in circumference.

It has been observed, that the lithic acid, which It has been observed, that the lithic acid, which constitutes the chief part of most human urinary calculi, and abounds in the arthritic, has been found in no phytivorous animal; and hence has been deduced a practical inference, that abstinence from animal food would prevent their formation. But we are inclined to think this conclusion too hasty. The cat is carnivorous; but it appeared above, that the calculus of that animal is equally destitute of bithic acid. If, therefore, we would form any deduction with respect to fore, we would form any deduction with respect to regimen, we must look for semething used by man, exclusively of all other animals; and this is obviously found in fermented liquors, but apparently in nothing else: and this practical inference is sanctioned by the most respectable medical authorities.

The following valuable criteria of the different lide of winaw related have been given by M. Rec.

The following valuable criteria of the different kinds of urinary calculi, have been given by M. Berzelius in his treatise on the use of the blowpipe:

1. We may recognise calculi formed of uric acid, from their being carbonized and smoking with an animal odour, when heated by themselves or charcoal or platinum-foil. They dwindle away at the blowpipe flame. Towards the end, they burn with an increase of the characteristic of years, white of light; and leave a small quantity of very white

alkaline ashes

"To distinguish these concretions from other substances, which comport themselves in the above manner, we must try a portion of the calculus by the humid way. Thus a tenth of a grain of this calculus being put on a thin plate of glass or platinum, along with a drop of nitric acid, we must heat it at the flame of the lamp. The uric acid dissolves with effervescence. The matter, when dried with precaution to prevent it from charring, is obtained in a fine red colour. If the calculus contains but little uric acid, the substance sometimes blackens by this process. We must then take a new portion of the concretion, and after having dissolved it in nitric acid, remove it from the heat: the solution, when nearly dry, is to be allowed to cool and become dry. We then expose it, sticking to its support, to the warm vapour of caustic ammonia. (From water of ammonia heated in a tea-spoon.) This ammoniacal vapour developes a beautiful red colour in 'To distinguish these concretions from other subammoniacal vapour developes a beautiful red colour in it. We may also moisten the dried matter with a little weak water of ammonia.

weak water of aminona.

'If the concretions are a mixture of uric acid and earthy phosphate, they carbonize and consume like the above, but their residuum is more bulky; it is not alkaline, nor soluble in water. They exhibit with nitric acid and ammonia, the fine red colour of uric acid. Their ashes contain phosphate of lime, or of

lime and magnesia.

lime and magnesia.

2. The calcular of urate of soda are hardly met with except in the concretions round the articulations of gouty patients. When heated alone upon charcoal, they blacken, exhaling an empyreumatic animal odour; they are with difficulty reduced into askes, which are they blacken, exhaling an empyreumatic animal odour; sound state, though it seems to be one of the principal they are with difficulty reduced into ashes, which are and most certain causes, is by no means satisfactory, strongly alkaline, and are capable of vitrifying silica.

When there are earthy salts (phosphates) in these concretions they afford a whitish or opaque gray glass.

13. The calculi of wrate of ammonia comport themselves at the blowpipe like those of uric acid. A drop sorces at the blowpipe like those of uric acid. A drop of caustic potassa makes them exhibe, at a moderate heat, much ammonia. We must not confound this order with the slight ammoniaco-lixivial smell, which potassa disengages from the greater part of animal substances. Urate of soda is likewise found in these coloub. calculi

'4. Calculi of mosphate of lime. They blacken, with the exhalation of an empyreumatic animal odour, with the exhalation of an empyrous at the blowpipe, but without melting of themselves at the blowpipe, but without melting of themselves at the blowpipe, With

without metling of themselves at the blowpipe, but whiten into an evident calcareous phosphate. With soda they swell up without vitrifying. Dissolved in boracic acid, and fused along with a little iron, they yield a bead of phosphuret of iron.

'5. Calculi of ammoniaco-magnesian phosphate, hated alone on a plate of platinum, exhale the empy reunatic animal dour, at the same time blackening, swelling up, and becoming finally grayish white. A kind of grayisha white mannel, in this manner of swelling up, and becoming finally grayish white. A kind of grayish-white enamet is in this manner obtained. With borax they melt into a glass, which is transparent, or which becomes of a milky-white on cooling. Soda in small quantity causes them to fuse into a frothy white slag; a larger quantity of soda makes them infusible. They yield, with iron and boracic acid, a head of phosphuret of iron; with nitrate of coolart, a glass of a deep red qr brown. If saits of lime exist in these concretions, the mixture of them is less fusible.

inne exist in these concretions, the instance of them is less fusible.

'6. Calculi of ozalate of lime, exposed to the blowpipe, exhale at first the urinous smell; they become first of a dull colour at the flame, and afterward their colour brightens. What remains after a moderate ignition, effervesces with nitric acid. After a smart jet of the flame, there remains quicklime on the char-coal, which reacts like an alkali on the colour of lit-

coal, which reacts like an alkall on the colour of lit-mus, wild mallow flower, or cabbage, and slakes with water. But this does not happen when the residuum consists of calcareous phosphate.

17. The siliceous calculus, healed alone, leaves sub-coriaceous or musible ashes. Treated with a little soda, these dissolve with effervescence, but slowly, leaving a bead of glass of a gray colour, or of little

transparency.

'8. Lastly, the cystic oxyde calculi afford nearly the same results as uric acid at the blowpipe. They reasame results as uric acid at the blowpipe. They readily take fire, burning with a bluish green flame, without melting, with the disengagement of a lively and very peculiar acid odour, which has some affinity to that of cyanogen. Their ashes, which are not alkaline, redissolve by a jet of the flame, into a grayishwhite mass. They do not yield a red colour in their treatment with nitric acid, like the uric acid concretionally.

The Causes of the Generation of Urinary Calculi.
To inquire into the causes by which urinary conretions are produced, is both interesting and useful, however attended with the greatest difficulties. The writings of medical authors are full of conjectures and hylotheses with regard to this subject, on which no-thing could be ascertained before we had acquired an accurate knowledge of the nature of urinary concretions. It is owing to this circumstance that the most tions. It is owing to this circumstance that the most enlightened physicians acquiesced in ascribing the immediate cause of them to a superabundance of terrecous matter in the urine; and Boerhaave, as well as, particularly, Van Swieten, imagined that the urine of all men contained calculous matter in the natural state, and that, for the generation of stones, a nucleus was only required, to attract it. That this may be the was only required, to attract it. A max mis may be the case, in some instances, is proved by frequent experience; but stones produced by foreign bodies, that have accidentally got into the urethra or bladder, are always white, and composed of phosphates of earths, and seldom or never covered with lithic acid, a substance which is observed to form the stones that most stance which is observed to form the stones that most frequently occur; but even in these the nucleus consists of a substance formed in the body itself, as a particle descended from the kidneys, &c. which must, therefore, have necessarily originated in a peculiar internal cause. A superabundance of uric acid in stony patients, and its more copious generation than in a from the urine, but not why it unites in strata. A coagulating substance is required for separating, attracting, and, as it were, agglutinating the condensi ble particles that are precipitated. This substance is undoubtedly the animal matter which we have conthatounisedly the animal matter which we have constantly found in all calculous masses, and which seems to constitute the basis of stones, like the membraneous gelatina that of bones. It is known that the urine of calculous patients is generally muddy, ductile, in threads, slimy, and as it mixed with albumen, which consists it obtains at a line of the constant of quality it obtains at the moment when the ammonia quanty revolutions at the moment when he abstract is disengaged, or on the addition of potuses that separates it from the acid in which it was dissolved; and in all cases of superabundance of lithic acid the urine contains a great quantity of that animal matter, which promotes the precipitation of it, and attracts, and unites the particles thus separated. Hence it appears. that every thing capable of increasing the quantity of that pituitous gluten in the urine, may be considered as the remote cause of the formation of calculi. And the old ideas on pituitous temperaments, or superabundant pituita, &c. which were thought to dispose people to a calculus, seem to be connected with the late discoveries on the nature of urinary stones. Though the animal matter appears to be different in different calculi, yet it is certain, that every calculous substance contains an animal gluten, from which its concrete and solid state arises; whence we may fairly state the superabundance of that substance as the chief principal cause of the formation of calculi.

There are, however, other causes which seem to have a particular influence on the nature of urinary stones, and the strata in which they are formed; but it is extremely difficult to penetrate and to explain them. We are, for instance, entirely ignorant of the manner in which urinary stones are formed from the oxalate of lime; though, from their occurring more frequently in children than in adults, we might be entitled to ascribe them to a disposition to acor, a cause considered by Boerhaave as the general source of a great number of diseases incident to the infantile age. This opinion seems to be proved by the ideas of Bonhomme, physician at Avignon, on the oxalic or saccha-ric acid, as the cause of mollities ossium in the rickets: by this acid being discovered in a species of saliva by by this acid being discovered in a species of sairva by Brugnatelli; and, lastly, by an observation of Turgais, who found this acid in the urine of a child diseased with worms. We but rarely observe saccharic acid in the human body, which appears to be mostly adventitious, and by which the animal matter is rendered coagulable, and deposited, or precipitated, with the oxalate of lime; or the oxalic acid decomposes the phosphate of lime, and forms an insoluble combina-tion, incapable of being any longer kept dissolved in the urine. It is, however, extremely difficult to determine how far the constitution of the body is connected with that particular disposition in the urme, of precipitating sometimes phosphate of lime mixed with ovalate of lime, sometimes phosphate of ammoniacal magne-sia, either by itself or mixed with lithic acid, &c. &c. Who can explain the reason why, of 600 stones, there were only two in which siliceous earth could be traced? Still more difficult is it to explain the causes why the above substances precipitate either at once or in different strata; but it may suffice to have shown how many observations and experiments are required, and what accurate attention and perseverance are neces-sary, in order to throw light on so difficult a subject.

The means to be employed in calculous complaints must vary according to circumstances. Permanent relief can be obtained only by the removal of the morbid concretion: and where this is of too large a size to be passed by the natural outlet, the operation of lithotomy becomes necessary. Various remedies indeed have been proposed as capable of dissolving urinary calculi; and some of them are certainly useful in palcalcul; and some of them are certainy assuming the formation of fresh calculous maner; but experience has not sanctioned their efficacy as actual inhortripties; and by delaying the operation, we not only incur the risk of organic disease being produced, but the concretion may also become triable externally, so as to be with more difficulty removed. Sometimes, however, the advanced age of the patient, the complication with organic disease, or the exhausted state of the system, may render an operation inexpedient; or he may not be willing to submit to it; we shall then find some ad-

vantage from the use of chemical remedies, according to the morbid quality of the urine; that is generally from alkaline or earthy preparations, where a red deposite appears, and from acids where there is a white sediment. Tonic medicines may also be useful, and sediment. Tonic medicines may also be userta, and some of the mild astrugents, especially uva ursi, and occasional narcotics, where violent pain attends: sometimes an inflammatory tendency may require fomentations, the local abstraction of blood, and other title builds against a Thompset likely plan of effective builds against a filter plan of effective process. antiphicistic measures. The most likely plan of effecting a solution of the calculus must certainly be that proposed by Fourcroy, flamely, injecting suitable liquids into the bladder. The most common calculi, containing uric acid, are readily soluble in a solution of potassa, or soda, weak crough to be held in the mouth, or even swallowed without inconvenience; mouth, or even swallowed without inconvenience; those which consist of phosphoric acid neutralized by lime, or other base, the next in frequency, dissolve in nitric or muriatic acid of no greater strength; the most rare variety, made up mostly of oxalate of lime, may be dissolved, but very slowly, in nitric acid, or solutions of the fixed alkaline carbonates, weak enough not to irritate the bladder. However, it is not easy to ascertain which of these solvents is proper in a particular state, for most calculi age not uniform throughcular case, for most calculi are not uniform through-out, owing probably to the urine having varied during out, owing propagy to the urine naving varied urinities their formation, so that the examination of this secretion will not certainly indicate the injection required. The plan recommended, therefore, is, the bladder having been evacuated, and washed out with tepid water, to inject first the alkaline solution, heated to the temperature of the body, and direct it to be retained for half an hour, or longer, if the person can bear it; then, to the liquor voided and filtered, add a little muriatic acid, which will cause a white precipitate, if there be any uric acid dissolved; and so long as this happens, the same injection should be used, otherwise diluted muriatic acid is to be thrown in, and ammonia added to it when discharged; whereby phosphate of lime, if there be any, is precipitated: and when neither of these succeeds, diluted nitric acid is to be tried; ther or unese succeeds, diffued affire acts is to be tried; in each case varying the injection from time to time, as that previously used loses its efficacy. However, there appears one source of error in this method; namely, that the urine secreted, while the liquid is retained, may give rise to a precipitate, though none of the calculus may have been dissolved; it would therefore be proper to examine the urine previously, as well as occasionally during the use of injections, and, if necessary, correct its quality by the exhibition of proper internal medicines. See Lithontriptics and Lithotomy.

Lithatomy.

CALCILES BILIARIS. See Gall-stone.
CALDA'RICM. (From calco, to make hot.) A vessel in the baths of the ancients, to hold hot water.
CALEFA'CIENT. (Calefaciens; from calidus, warm, and facio, to make.) A medicine, or other substance, which excites a degree of warmth in the

substance, which excites a degree of warmth in the parts to which it is applied; as piper, spiritus vini, &c. They belon, to the class of stimulants. CALE'NDULA. (Quad singuis calendis, i. e. mensibus, florescat; so called because it flowers every month.) I. The name of a genus of plants in the Linnaran system. Class, Syngenesia; Order, Polygamia

The pharmacopæial name of the single marigold.

See Calendula officinalis.
(CALENDULA ALPINA. The mountain arnica. See Arnica montana.

CALENDULA ARVENSIS. The wild marigold. See Caltha palustris.

The garden marigold. CALENDULA OFFICINALIS. Calendula sativa; Chrysanthemum; Sponsa solis; Caltha vulvaris. The flowers and leaves of this Calendula sativa; Companies and leaves of this plant, Calendula:—seminibus cymbiformibus, muricars, incurratis amnibus, of Linneus, have been exhibited medicinally: the former, as aperients in utrine obstructions and reteric disorders, and as diaphoretics in exanthematous fevers; the latter, as gentle aperients, and to promote the secretions in general.

aperients, and to promote une secretions in general.

CALENDULA PALIVERIS. Common single marshmarigoid. See Caltha palastris.

CA'LENTURE. A febrile delirium, said to be peculiar to sailors, wherein they imagine the sea to be green fields, and will throw themselves into it if not restrained. Bonetus, Dr. Oliver, and Dr. Stubbs, give an account of it.

CALE'SUM. The Indian name of a tree which CALLI'CREAS. (From Rados, good, and speas, ment; grows in Malabar, the bark of which made into an so named from its delicacy as food.) Sweet-breadointment with butter, cures convulsions from wounds, and heals ulcers. The juice of the bark cures the aphthæ, and, taken inwardly, the dysentery .- Ray.

Calf's snout. See interchinem.
Ca'll (Arabian) The same as kali.
Called Pr. The white-thorn.
CA'LIDUS. In medical language, it is commonly used for animal heat, or the vis vice thus, calidum

animale invatum CALIDÆ PLANTÆ. (From calor, heat.)

that are natives of warm climates.

Calle Ta. (From kalops, a nest, which it somewhat resembles.) Callette. A fungus growing on

the juniper-tree.

CALI'GO. (Caligo, ginis. fcm.) A disease of the eye, known by diminished or destroyed sight; and by the interposition of a dark body between the object and the retino. It is arranged by Collen in the class Locales, and order dysasthesic. The species of caligo are distinguished according to the situation of the interposed body: thus caligo lentis, caligo cornæ, caligo pupilla, caligo humorum, and caligo pulpibrarum.

CALIHA'CHA. The cassia-lignea, or cassia-tree of

CALLMIA. The lapis calaminaris. CA'LIX. (Calix, icis. m.; from καλυπ7ω, to cover.) See Onlyx.

Calle um. (From καλλυνω, to adorn.) Calleon. The gills of a cock, which Galen says, is food not to be praised or condemned.

CALLE'NA. A kind of saltpetre. CALLI. Nodes in the gout.—Galen.

(From kalos, beautiful.) A name of the CA'LLIA. chamonile.

Callible Phara. (From καλος, good, and βλεφα-ρον, the eyelid.) Medicines, or compositions, appro-priated to the eyelids. CALL(CO CCA. The name of a genus of plants in the Linnæan system. Class, Penlandria, Order,

Monogynia.

Callicocca ipecacuanna. The plant from which ipecacuan root is obtained was long unknown; it was said by some writers to be the Psychutria cuectica: said by some writers to be the Psychotra concinc. Class, Pentradrae; Order, Managapia; by offices, the Viola ipcacaanha, a sympenesions plant of the order Managapia. It is now ascertained to be neither, but a small plant called Callicacca increasanha. There are three sorts of ipcacaanh to be met with in our sho s, viz. the ash-coloured or gray, the brown, and the white.

The ash-coloured is brought from Peru, and is a small wrinkled root, bent and contorted into a great variety of ugures, brought over in short pieces, full of wrinkles, and deep circular fissures, down to a small white woody fibre that runs in the middle of each piece: woody fibre that miss in the middle of each piece, the cortical part is compact, withle, looks smooth and resinous upon breaking: it has very little smell; the taste is bitterish and subacrid, covering the tongue, as it were, with a kind of mucilage.

The brown is small, somewhat more wrinkled than the longuing, of a nown or blackish colour without,

and white within: this is brought from Brazil.

The white sort is woody, and has no wrinkles, nor any perceptible bitterness in taste. The first, the ashany perceptible butterness in taste. The first, the asti-coloured or gray ipecacuan, is that usually preferred for medicinal use. The brown has been sometimes observed, even in a small dose, to produce violent effects. The white, though tain in a large one, has carcely any effect at all. Experience has proved that this medicine is the safest emetic with which we are acquainted, having this peculiar advantage, that, if does not operate by vomit, it readily passes off by the other emunctories. Ipecacuan was first introduced as an infallible remedy against dysenteries, and other inveterate fluxes, as diarrhea, menorrhagia, leucor hea, &c. and also in disorders proceeding from obstructions of long standing; nor has it lost much of its reputation by time: its utility in these cases is thought to depend upon its restoring perspiration. It has also been and consumptive cases. Nevertheless, its chief use is and consumptive cases. as a vomit, and in small doses, joined with opinm, as a diaphoretic. The officinal preparations are the pulvis specacuanha compositus, and the vinum ipecacuanha.

See Processes.

Calliagness. (From καλος, beautiful, and yore, a knot, or joint; so named from its-being handsomely jointed, like a cane.) The polygonum, or knot-grass.

Callingma ice ne's. The Gaullie mane, in Marcellus Empiricus, of colt's-foot.

Callinon: A kind of night-shade
Callinon: A kind of night-shade
Calling Lium. From καλλος, beauty, and φυλ-

CALLISTIK, KIRIA OI INGIRESIANCE
CALLISTIK, THIM. From Rakkos, beauty, and polylog, a leaf.) See Addianthum.
CALLISTIK, THIM. (From Rakos, good, and 50000s, a sparticew, because it was said to latten sparrows.) A fig mentioned by Plany, of a good taste.
CALLITRICIE. (From Rakkos, beauty, and 500k, hair; so named because it has the appearance of Sort, hair; so named because it has the appearance of long, beautiful hair; or, according to Listeron, because it noarishes the hair, and makes it beautiful.)

1. The name of a genus of plants in the Linnacan system. Class, Mananizra; Order, Preyma. Water starwort. Water chickweed.

2. The herb maidenhair. Sec 3dianthum.

CALLO NE. (From καλος, fair.) Hippocrates used this word, to signify that decency and gravity of character and deportment which it is necessary that

of character and deportment which it is necessary that all medical men should be possessed of. CALLO'SITAS. Callosity, or preternatural hard-

CALLOSITY. Collositas. Hardness.
CALLOSUS. Hard. Applied in surgery to parts which are morbidly hard; and, in botany, to seeds which are hard; as those of the Chrus medica.
CA'LLOUS. Callosus. Hardened or indurated;

as the callous edges of ulcers.

as the canonic egges of incers.

CA LLI'S. (Callus, .im.; and Callum, i. n.) 1.

The bony matter deposited between the divided ends of broken bones, about the fourteenth day after the fracture. It is in reality nothing more than the new cosific substance formed by a process of nature, very similar to the growth of any other part of the body.

A preternatural hardness, or induration, of any

fleshy part.

3. This term is applied in Good's Nosology to that species of explyma, which is characterized by callous extuberant thickening of the cuticle; insensible to the

touch.

CALOCATANUS. (From καλος, beautiful, and καζατως, a cup; so called from the beauty of its flower and
shape). The wild poppy. See Papaver rhaws.

CALO MELAS. (From καλος, good, and μελας,
black; from its virtues and colour.). The preparation called Africaps mineral, or hydrargyr us cum sulphure, was formerly so named.

2. The chloride of mercury. See Hydrargyri sub-

CALO'RIC. (Caloricum; from calor, heat.) Heat; Igneous fluid.

Heat and cold are perceptions of which we acquire the ideas from the senses; they indicate only a certain state in which we find ourselves, independent of any exterior object. But as these sensations are for the exterior object. But as these sensations are for the most part produced by bodies around us, we consider them as causes, and judging by appearances, we apply the terms hot, or cold, to the substances themselves; calling those bodies hot, which produce in us the sensation of heat, and those cold, which communicate the

coil ary sensition.

This ambiguory, though of little consequence in the congroun athairs of human life, has led max and ably to confusion and perphasity in philosophical discussions. It was to prevent this, that the ranners of the new nomenclature adopted the word endury, which denotes that which produces the sensation of heat.

Theorems of Heat.

Two opinions have tone divided the philosophical world concerning the nature of heat.

with concerning the hand the cross which produces the 1. The one is; that the cross which produces the sensation of heat, is a real, or distinct substance, universally prevading indust, penetrating the particles or pores of all hodies, with more or less facility, and in different quantities.

This substance, if applied to our system in a greater proportion than it already contains, warms it, as we call it, or produces the sousation of heat; and hence it

has been called caloric or calorific.

2. The other theory concerning heat is; that the cause which produces that sensation is not a separate

or self-existing substance; but that it is merely like percussion of liquids, not of the softer kind of bodies gravity, a property of matter; and that it consess in a which yeard to a scent impulse. spectia, or peculiar motion, or orbration of the particles

The arguments in favour of the first theory have The arguments in favour of the first theory have been principally deduced from the evolution and absorption of heat during chemical continuations; thuse of the latter are cheely founded on the production of heat by friction. For it has been observed, that whatever is capable of producing motion in the particles of any mass of maner, excues heat. Count Rumford and Froncesor Davy nave paid meconamon attention to this fact, and proved, that heat continues to be evolved from a body subjected to friction, so long as it is annihiled, and the texture or form of the body. as it is applied, and the texture or form of the body not altered.

All the effects of heat, according to this theory, depend therefore entirely upon the vibratory motion of the particles of bodies. According as this is more or less intense, a higher or lower temperature is produced; and as it predominates over, is nearly equal or the root to the attraction of cohesion, bodies exist in the gaseous, fluid, or solid state.

Different bodies are susceptible of it in different degrees, and receive and communicate it with different celerity. From the generation, communication, and attraction of this repulsive motion, under these laws,

attraction of this Fephisive models, more three three three along all the phenomena ascended to heat are explicable. Each of these theories has been supported by the most able philosophers, and given occasion to the most important disputes in which chamists have been engased: which has contributed in a very particular manner to the advancement of the science. The obscurity of the subject, however, is such, that both parties have been able to advance most plausible arguments

Setting aside all inquiries concerning the merits of Setting aside all inquiries concerning the merits of these different doctrines, we shall confire ourselves to the general effects which heat produces on different bodies. For the phenomena which heat presents, and their relation to each other, may be investigated with sufficient precision, though the materiality, or imma-

Those who consider heat as matter, assert that caloric exists in two states, namely, in combination, or at liberty.

In the first state it is not sensible to our organs, nor indicated by the thermometer; it forms a constituent pact of the body; but it may be brought back to the state of sensible heat. In this state it affects animals with the sensation of heat. It therefore has been called sensible or free heat, or fire; and is synonymous with uncombined caloric, thermometrical caloric, caloric of temperature, interposed caloric, &c. expressions

force of temperature, interposed canonic, cc.expressions now pretty generally superseded.

From the diversity of opinions among chemists respecting the nature of calorie, saveral other expressions have been introduced, which it is proper to notice. For instance, by specific heat is understood, the relatitive quantities of calories contained in equal weights of different bodies at the same temperature. Latent heat is the expression used to denote that quan-It is, for ealour which a bod, absorbs when class ug its form. It is, however, more properly called caloric of fluctury. The disposition, or properly, by which of fundin. The disposition, or properly, by which discount bodies contain certain quantities of calour. at any temperature, is termed their capacity for heat. By the expression of absolute heat, is understood the whole quantity of caloric which any body comains.

Methods of executing and educating Heat.

Of the different methods of execting heat, the fol-

towing are the most usurd:

1. Percession or Calleson. This method of producing heat is the shaplest, and therefore it is generated raily made use of in the common purposes of life for

obtaining fire.

When a piece of hardened steel is struck with a fliat, some particles of the metal are scraped away from the mass, and so violent is the heat which iollows the stroke, that it ments and virtues them. In howe the stade, that it ments and currents them. If the fragments of steel are created upon paper, and viewed with a microscope, most of them will be found perfect spherodes, and very highly possibled. Their epherically demonstrates that they have been in a fluid state, and the polish upon their surface, shows them to be vitrified. No heat, however, has been observed to follow the tions, seem, as it were, the secret springs of nature.

which yead to a sreial impulse.

2. Freaton. Heatmay likewise be excited by mere triction. This practice is said retained in some parts of the world. The natives of New Holland are said to produce fire in this manner, with great facility, and spread it in a wonderful manner. For that purpose, they take two pieces of dry wood; one is a stick, about eight or nine inches long, and the other piece is flat; the stick they bring to an obtuse point at one end, hat; the stick they bring to an obtuse point at one end, and pressing it upon the other poece, they turn it very number, by holding it between both hands, as we do a chaseable mild, often showing their hands up, and then moving down upon it, morder to increase the pressure as much as possible. By this method they get fire in a few minuses, and from the smallest spark they increase it with great speed and dexterity.

If the irons at the axis of a coach-wheel are applied to each other, without the interposition of some unctuous matter to kéep them from immediate contact, they will become so hot when the carriage runs swiftly along, as to set the wood on fire; and the fore-wheels, being smallest, and making most revolutions in a given

time, wid be in ist in danger.

The same will happen to mill-work, or to any other

It is no uncommon practice in this country, for It is no uncommon practice in this country, for blacksmittle to use a plate of iron as an extemporaneous substitute for a tinder-box; for it may be hammered on a navit fill it becomes red-hot, and will fire a brimstone match. A strong man who strikes quick, and keeps turning the iron so that both sides may be equally exposed to the force of the hammer, will person to the beautiful persons the strong plate of the hammer. form this in less time than would be expected.

If, in the coldest season, one dense iron plate be laid on another, and pressed together by a weight, and then rubbed upon each other by reciprocal motions, they will gradually grow so hot as, in a short time, to emit sparks, and at last become ignited.

It is not necessary that the substances should be very hard; a cord rubbed backwards and forwards swiftly against a post or a tree will take fire

Count Rumford and Professor Pictet have made some very ingenious and valuable experiments con-

cerning the heat evolved by friction.

3. Chemical Action. To this belongs the heat produced by combustion. There are, besides this, many chemical processes wherein rapid chemical action takes place, accompanied with a development of heat, or fire, and flame.

4. Solar heat. It is well known that the solar rays, when collected by a mirror, or lens, into a focus, produce the most astonishing effects.

Dr. Herschel has discovered that there are rays emitted from the sun, which have not the power of illuminating or producing vision; and that these are the rays which produce the heat of the solar light. Consequently, heat is emitted from the sun in rays,

but these rays are not the same with the rays of light. 5. The Evertue Spark, and Galvanism. The effects of electricity are two well known in this point of view to need any description.

Galvanism has of late become a powerful instrument for the purpose of executing heat. Not only easily in-itanimatic substances, such as phesphorus, surpiur, &c. have been fired, but likewise, gold, silver, copper, tin, and the rest of the metals, have been burnt by means of galvanism.

General Effects of Heat.

General Effects of Heat.

The first and most obvious effect which heat produces on bodies, is its expansive property. Experience hists anoth us that, at all times, when bodies become nor, they increase in bulk. The bodies experience a data atton which is greater in proportion to the accumulations of colonic, or in other words, to the intensity of the heat. This is a general law, which holds good as long as the bodies have suffered no change either in their complementary arm the amounts of their complements. their combination or in the quantity of their chemical

Taxs power, which heat possesses, consists, there This power, which near possessor the particles force, in a conseant tendency to separate the particles of bodies. Hence philosophers consider heat as the repulsive power which acts upon all bodies whatever, and which is in constant opposition to the power of

The phenomena which result from these mutual ac-

the instrument in a vessel of hot water: the included fluid will instantly begin to mount into the neck. If it be taken out of the water and brought near the fire. it be taken out or the valer and grought was the larger it will ascend more and more, in proportion as it becomes heated; but, upon removing it from the source of heat, it will sink again: a clear proof that caloric dilates it, so as to make it occupy more space when hot than when cold. These experiments may, there fore, serve as a demonstration that heat expands fluid

2. Expansion of Aëriform Bodies. Take a bladder partly filled with air, the neck of which is closely tied. Take a bladder so as to prevent the enclosed air from escaping, and let it be held near a fire. The air will soon begin to occupy more space, and the bladder will become gradually distended; on continuing the expansion of the air, by increasing the heat, the bladder will burst with

a loud report.

3. Expansion of Solid Bodies. If we take a bar of fron, six inches long, and put it into a fire till it becomes ston, as thenes long, and put i into a fretall it becomes red-hot; and then measure it in this state accurately, it will be found 1-20th of an inch longer than it was before; that is, about 120th part of the whole. That the metal is proportionally expanded in breadth, will be seen by trying to pass it through an aperture which is fitted exactly when cold, but which will not admit it when red-hot. The bar is, therefore, increased in least the different excellent.

length and diameter.

To discover the minutest changes of expansion by heat, and the relative proportions thereof, instruments have been contrived, called *Pyrometers*, the sensibility of which is so delicate as to show an expansion

of 1-100,000th of an inch.

It is owing to this expansion of metals, that the mo-It is owing to this expansion of metals, that the mo-tion of time-pieces is rendered erroneous; but the ingenuity of artists has discovered methods of ob-viating this inaccuracy, by employing the greater expansion of one metal, to counteract the expansion of another; this is effected in what is called the grid-iron pendulum. Upon the same principle, a particular construction of watches has been contrived.

The expansion of metals is likewise one of the principal reasons that clocks and watches vary in winter cipai reasons that clocks and watches vary in winter and summer, when worn in the pocket, or exposed to the open air, or when carried into a hotter or a colder climate. For the number of the vibrations of the pendulum is always in the sub-duplicate ratio of its length, and as the length is changed by heat and cold, the times of vibration will be also changed. The quantity of alteration, when considered in a single vibration, is exceedingly small, but when they are often repeated, it will be very sensible. An alteration of one-thousandth part in the time of a single vibration of a pendulum which beats seconds, will make a change of eighty-six whole vibrations in twenty-four

As different metals expand differently with the same degree of heat: those musical instruments, whose parts are to maintain a constant true proportion, should never be strung with different metals. this account that harpsichords, &c. are out of tune by

a change of temperature.

a change of temperature.

Bodies which are brittle, or which want flexibility, crack or break, if suddenly heated. This likewise depends upon the expansive force of heat, stretching the surface to which it is applied, while the other parts, not being equally heated, do not expand in the same ratio, and are therefore torn asunder or break. Hence thin vessels stand heat better than thick ones. same holds, when they are suddenly cooled.

Measurement of Heat.

Upon the expansive property of heat, which we have considered before, is founded its artificial measurement. Various means have been employed to assist the imperfection of our sensations in judging of the different degrees of heat; for our feelings, unaided, afford but very inaccurate information concerning this matter; they inclinate the present of the concerning that the inclinate of the present of the concerning that the inclinate of the present of the concerning that the inclinate of the concerning that the c matter; they indicate the presence of heat, only when the bodies presented to them are hotter than the actual of conductory heat; and a body is said to be a better temperature of our organs of feeling. When these or worse conductor of heat, as it allows the refrigera-

Heat, however, does not expand all bodies equally, and we are still ignorant of the laws which it follows.

1. Expansion of Fluid Bodies. Take a glass globe, with a long slenderneck (called a bold heat): fill it up to the neck with water, ardent spirit, or any other fluid which may be coloured with red or black ink, in order to be more visible, and then immerse the globe of the instrument in a vessel of hot water; the instrument in a vessel of hot water; the included which may be coloured with red or black ink, in order to be more visible, and then immerse the globe of the water; the instrument in a vessel of hot water; the included

which are easily visible to us, afford more precise and determinate indications of the intensity, than can be derived from our feelings alone. The ingenuity of the philosopher and artist has therefore furnished us with instruments of measuring the relative heat or tempera-ture of bodies. These instruments are called *Thermo-*meters and *Pyrometers*. By these, all degrees are measurable, from the slightest to that of the most in-tense heat. See *Thermometer* and *Pyrometer*.

tense neat. See I nermometer and ryrometer.

Exceptions to the Expansion by Heat.

Philosophers have noticed a few exceptions to the law of heat expanding bodies. For instance; water, when cooled down within about 7° of the freezing point, instead of contracting on the farther deprivation

of heat, actually expands.

Another seeming exception is manifested in alumine, or clay; others occur in the case of cast-iron, and a few other metals. Alumine contracts on being heated, few other metals. Alumine contracts on oring nearest, and cast-iron, hismuth, &c. when fully fused, are more dense than when solid; for, as soon as they become so, they decrease in density, they expand in the act of cooling, and hence the sharpness of figures upon iron which has been cast in moulds, compared to that of many other metals.

Some philosophers have persuaded themselves that these exceptions are only apparent, but not really true.

They say, when water freezes, it assumes a crystalline form, the crystals cross each other and cause numeform, the crystais cross ratio other and cause numerous vacuities, and thus the ice occupies more space. The same is the case with fused iron, bismuth, and antimony. The contraction of clay is considered owing to the loss of water, of which it losses a part at every increased degree of temperature hitherto tried; there is, therefore, a loss of matter; and a reduction of volume must follow: but others assert, that this

only happens to a certain extent.

Mr. Tilloch has published a brief examination of the received doctrines respecting heat and caloric, in which these truths are more fully considered, together with many other interesting facts relative to the received entities of heat.

ceived notions of heat.

Equal Distribution of Heat.

If a number of bodies of different temperatures are placed in contact with each other, they will all at a certain time acquire a temperature, which is intermediate; the caloric of the hottest body will diffuse itself among those which are heated in a less degree, till they have all acquired a certain mean temperature. Thus, if a bar of iron, which has been made red hot, be kept in the open air, it does not retain the heat which it had received, but becomes gradually colder and colder, till it arrives at the temperature of the bo dies in its neighbourhood. On the other hand, if we cool down the iron bar by keeping it for some time cocool down the fron bar by keeping it for some time co-vered with snow, and then carry it into a warm room, it does not retain its low temperature, but becomes gradually hotter, till it acquires the temperature of the room. It is therefore obvious, that in the one instance the temperature is lowered, and in the other it is

These changes of temperature occupy a longer or a shorter time, according to the nature of the body, but they always take place at last. This law itself is, in deed, familiar to every one: when we wish to heat a body, we carry it towards the fire: when we wish to cool it, we surround it by cold bodies.

Propagation of Heat.
We have seen, that when bodies of higher temperature than others are brought into contact with each other, the heat is propagated from the first to the se-cond, or the colder body deprives the warmer of its excess of heat. We shall now see that some bodies do so much more quickly than others. Through some bodies caloric passes with undiminished velocity, through others its passage is prodigiously retarded.

This disposition of bodies, of admitting, under equal circumstances, the refrigeration of a heated body within a shorter or a longer time, is called the power

tion to go on quicker or slower. Those bodies, therenon to go on quicker or slower. Those bodies, there-fore, which possess the property of letting heat pass with facility, are called good conductors, those through which it passes with difficulty are called bad conduct-ors, and those through which it is supposed not to pass at all, are called non-conductors; thus we say, in com-mon language, some bodies are narm, or capable of preserving warmth, and from this arises the great dif-ference in the sensation excifed by different bodies, when amplied at the same temperature to our organs. when applied at the same temperature to our organs when applies at the same temperature to our organs of feeling. Hence, if we immerse our hand in mercury, we feel a greater sensation of cold than when we immerse it in water, and a piece of metal appears to be much colder than a piece of wood, though their temperatures, when examined by means of the thermometer, are precisely the same.

It is probable that all solids conduct heat in some degree, though they differ very much in their conducting power. Metals are the best conductors of heat; ing power. Metals are the best conductors of heat but the conducting powers of these substances are by no means equal. Stones seem to be the next best conductors. Glass conducts heat very slowly; wood and charcoal still slower; and feathers, silk, wool, and hair, are still worse conductors than any of the sub-

stances yet mentioned.

The best conductors of electricity and galvanism are also the best conductors of heat.

Experiment.—Take a number of straight wires, of equal diameters and lengths, but of different metals; equal mameters and lengths, but of different metals; for instance, gold, silver, copper, iron, &cc.; cover each of them with a thin coat of wax, or tallow, and plunge their extremities into water, kept boiling, or into metted lead. The melting of the coat of wax will show that caloric is more quickly transmitted through some metals than others

It is on this account also, that the end of a glass rod may be kept red-hot for a long time, or even melted, without any inconvenience to the hand which holds the other extremity; though a similar metallic rod, heated in the same manner, would very soon become too hot to be held.

Liquid and Aëriform Bodies convey Heat by an actual Change in the Situation of their Particles.

Count Rumford was the first who proved that fluids in general, and aeriform bodies, convey heat on a different principle from that observed in the solids. This ferent principle from that observed in the solids. This opinion is pretty generally admitted, though various ingenious experiments have been made, by different philosophers, to prove the contrary. In water, for instance, the count has proved that calorie is propagated principally in consequence of the motion which is occasioned in the particles of that fluid.

All fluids are considered by him, strictly speaking, in a similar respect as non-conductors of caloric. They can receive it, indeed, from other substances, and can give it to other substances, but no particle can either receive it from or rive it to another particle of

either receive it from or give it, to another particle of the same kind. Before a fluid, therefore, can be heated or cooled, every particle must go individually to the substance from which it receives or to which it gives out caloric. Heat being, therefore, only propagated in fluids, in consequence of the internal notion of their particles, which transport the heat; the more rapid these motions are, the more rapid is the communication of heat. The cause of these motions is the observed in the more rapid. nication of heat. The cause of these motions is the change in the specific gravity of the fluid, occasioned by the change of temperature, and the rapidity is in proportion to the change of the specific gravity of the liquid by any given change of temperature. The following the properties of the specific gravity of the liquid by any given change of temperature. liquid by any given change of temperature. The following experiment may serve to illustrate this theory

Take a thin glass tube, eight or ten inches long, and about an inch in diameter. Pour into the bottom part, for about the depth of one inch, a little water copart, for about the depth of one inch, a little water co-loured with Brazil-wood, or litmus, and then fill up the tube with common water, extremely gently, so as to keep the two strata quite distinct from each other. Having done this, heat the bottom part of the tube over a lamp; the coloured infusion will then ascend, and gradually tinge the whole fluid; on the contrary, if the heat be applied above, the water in the upper part of the tube may be made to boil, but the colouring matter will remain at the bottom undisturbed. The heat can-not act devenwards to make it ascend not act downwards to make it ascend.

By this being able to make the upper part of a fluid boil without heating the bottom part, water may be kept boiling for a considerable time in a glass tube over ice, without melting it.

Other experiments, illustrating the same principle, may be found in count Rumford's excellent essays,

especially in Essay the 7th; 1797.

To this indefatigable philosopher we are wholly indebted for the above facts: he was the first who taught us that air and water were nearly non-conductors. The results of his experiments, which are contained in the above essay, are highly interesting; they also show that the conducting power of fluids is impaired by the admixture of fibrous and glutinous matter.

Count Rumford proved that ice melted more than Count Rumford proved that ice melted more than 80 times slower, when boiling hot water stood on its surface, than when the ice was placed to swim on the surface of the hot water. Other experiments showed that water, only eight degrees of Fahrenheit above the freezing point, or at the temperature of forty degrees, melts as much lice, in any given time, as an equal volume of that fluid at any higher temperature, provided the water stands on the surface of the ice. Water, at the water stands on the surface of the ice. Water, at the temperature of 41°, is found to melt more ice, when standing on its surface, than boiling water. It appears, however, that liquids are not, as he supposes, complete non-conductors of caloric; because, if heat be applied at top, it is capable of making its way downwards, through water, for example, though very inscretched and design and a suppose of the suppose of th imperfectly and slowly.

imperfectly and slowly.

It becomes farther evident, from the Count's ingenious experiments, that of the different substances used in clothing, hares' fur and eider-down are the warmest; next to these, heavers' fur, raw silk, sheep's wool, cotton wool, and lastly, lint, or the scrapings of fine linen. In fur, the air interposed among its particles is so engaged as not to be driven away by the heat communicated thereto by the animal body; not between the line of the standard being easily displaced, it becomes a barrier to defend the animal body from the external cold. Hence it is the animal body from the external coid. Hence it is obvious that those skins are warmest which have the finest, longest, and thickest fur; and that the furs of the beaver, otter, and other like quadrupeds, which live much in the water, and the feathers of water-fowl, are capable of confining the heat of those animals in winter, notwithstanding the coldness of the water which they frequent. Bears, and various other animals, inhabitants of cold climates, which do not often take the water, have their fur much thicker on their backs than on their bellies.

backs than on their belifes.

The snow which covers the surface of the earth in winter, in high latitudes, is doubtless designed as a garment to defend it against the piercing winds from the polar regions, which prevail during the cold season.

Without dwelling farther upon the philosophy of this truth, we must briefly remark that the happy

application of this law, satisfactorily elucidates some

application of this law, satisfactorily clucidates some of the most interesting facts of the economy of nature. Theory of Caloric of Fluidity, or Latent Heat. There are some bodies which, when submitted to the action of caloric, dilute to such a degree, and the power of aggregation subsisting among their particles is so much destroyed and removed to such a distance by the interposition of caloric, that they slide over a fluid state. This phenomenon is called fusion. Bodies thus rendered fluid by means of called fusion. said to be fused, or melted; and those that are subject to it, are called fusible.

to it, are called fusible.

The greater number of solid bodies may, by the application of heat, be converted into fluids. Thus metals may be fused; sulphur, resin, phosphorus, may be melted; ice may be converted into water, &c.

Those bodies which cannot be rendered fluid by any

degree of heat hitherto known, are called infusible.

degree of neat inherito known, are caused in associaif the effects of heat, under certaint in runstances,
be carried still farther than is necessary to render
bodies fluid, vaporization begins; the bodies then
become converted into the vaporous or gaseous state.
Vaporization, however, does not always require a
previous fusion. Some bodies are capable of being
previous fusion. converted into the vaporous state, without previously becoming fluid, and others cannot be volatilized at any temperature hitherto known: the latter are termed previous fusion.

fluidity is, therefore, by no means essential to any species of matter, but always depends on the presence of a quantity of caloric. Solidity is the natural state of all bodies, and there can be no doubt that every fluid is capable of being rendered solid by a due reduction of temperature; and every solid may be fused by

the agency of caloric, if the latter does not decompose I given out by steam on its being condensed by cold. them at a temperature interior to that which would be necessary for their fusion.

Caloric of Fluidity.

Dr. Black was the first who proved that, whenever caloric combines with a solid body, the body becomes heated only, until it is rendered fluid: and that, while it is acquiring the fluid state, its temperature remains stationary, though calone is continued to be added to The same is the case when fluids are converted into the acriform or vaporous state.

From these facts, the laws of latent heat have been inferred. The theory may be illustrated by means of

the following experiments

If a lump of ice, at a low temperature, suppose at If a lamp of ice, at a low temperature, suppose at 220, be brought into a warm room, it will become gradually less cold, as may be discovered by means of the thermometer. After a very short time, it will reach the temperature of 320 (the freezing point); but there it stops. The ice time begins to met; but the process goes on very slowly. During the whole of that time its temperature continues at 320; and as it as consistently surroughed by warm air, we have it is constantly surrounded by warm air, we have reason to believe that calonic is constantly entering into it; yet it does not become hotter till it is changed into water. Ice, therefore, is converted into water by into water. Ice, therefore, is converted into water by a quantity of caloric uniting with it.

It has been found by calculation, that ice in melting absorbs 1400 of caloric, the temperature of the water

produced still remaining at 320

This fact may be proved in a direct manner.

Take one pound of ice, at 33°, reduced to a coasse powder; put it into a wooden bood, and pour over it one pound of water, heated to 172°; all the ice will become melted, and the temperature of the whole desired to the powder of the whole the powder fluid, if examined by a thermometer, will be 320; 1400 of caloric are therefore lost, and it is this quantity which was requisite to convert the ice into water This experiment succeeds better, if, instead of ice, fresh-fallen snow be employed.

This caloric has been called latent caloric, because its presence is not measurable by the thermometer:

also more properly caloric of fluidity.

Dr. Black has also ascertained by experiment, that the fluidity of melted wax, tallow, spermaceti, metals, &c. is owing to the same cause; and Landriani proved. that this is the case with sulphur, alum, nitrate or potassa, &c.

We consider it therefore as a general law, that whenever a solid is converted into a strid, it combines with caloric, and that is the cause of fluidity.

Conversion of Solids and Fluids into the Aëriform or

Gaseous State.

We have seen before, that, in order to render solids We have seen before, that, in order to render soins fluid, a certain quantity of caloric is necessary, which combines with the body, and therefore cannot be measured by the thermometer; we shall now endeavour to prove that the same holds good in respect to the conversion of solids or fluids into the vaporous or gaseous state.

Take a small quantity of carbonate of ammonia, introduce it into a retort, the neck of which is directed under a cylinder filled with mercury, and inverted in a basin of the same fluid. On applying heat to the body of the retort, the carbonate of ammonia wid be and become an invisible gas, and would remain so, it its temperature was not lowered.

The same is the case with benzoic acid, camphire, and various other substances.

All fluids may, by the application of heat, be converted into an aeriform elastic state.

When we consider water in a boiling state, we find When we consider water in a borning state, we mind that this fluid, when examined by the thermometer, is not hotter after boiling several hours, than when it began to boil, though to maintain it boiling a brisk fire must necessarily be kept up. What then, we may ask, becomes of the wasted caloric? It is not percep tible in the water, nor is it manifested by the steam; for the steam, if not compressed, upon examination, is found not to be hotter than boiling water. found totto be hotter than botting water. The caronic is therefore absorbed by the steam, and although what is so absorbed, is absolutely necessary for the conversion of water into the form of steam; it does not increase its temperature, and is therefore not appreciable by the thermometer.

This is particularly manifested in the condensation of this find in the process of distilling, where, upon examining the refugeratory, it will be found that a much greater quantity of catoric is communicated to it, than could possibly have been transmitted by the caloric which was sensibly acting before the condensation. This may be casiny ascertained by observing the quantity of caloric communicated to the water in the refrigeratory of a still, by any given quantity of liquid that passes over.

1. The boding point, or the temperature at which the conversion of fluids into gases takes place, is different in different fluids, but constant in each, provided

pressure of the atmosphere be the same.

Put any quantity of sulphuric ather into a Pletence flask, suspend a the mometer in it, and hold the Pask over an Argand's lamp, the ather will immediately begin to boil, and the thermometer will indicate 980

If highly rectified aident spirit is heated in a similar manner, the thermometer will rise to 1760, and there

If water is substituted, it will rise to 2120.

It strong mirrors and of commerce he made use of, it will be found to boil at 2480; sulphuric acid and linseed oil at 6000; incorrupt at 6500, &cc.

2. The boiling point of fluids is raised by pressure.

Mr. Watt heated water under a strong pressure to Yet still, when the pressure was removed, only part of the water was converted into vapour, and the temperature of this vapour, as well as tuat of the remaining fluid, was no more than 2120. There was, therefore, 1889 of caloric suddenly lost. This caloric was carried of by the steam. Now as only about one lifth of the water was converted into steam, that seams must contain not only its own 1889, but also the is89 lost by each of the order tom parts; fb31 is to say, it must contain 1889 \Z, for allow 1840. Steam, therefore, is water combined with at least 5409 of calorie, the presence of which is not indicated by the

3. When pressure is removed from the surface of bodies, their conversion into the gaseous state is greatly facilitated, or their boiling point is lowered

In proof of this the following experiments may serve: Let a small bottle be filled with highly rectified sulpluric wher, and a piece of wetted bladder be tied over its orifice around its neck. Transfer it under the receiver of an air-pump, and take away the super-incumbent pressure of the air in the receiver. When the exhaustion is complete, pierce the bladder by means of a pointed sliding wire, passing through a collar of leather which covers the upper opening of the receiver. Having done this, the ather will instantly begin to boil, and become converted into an investble gaseous fluid.

Take a small retort or Florence flask, fill it one half or less with water, and make it boil over a lamp; when kept briskly beiling for about five minutes, cork the mouth of the retort as expeditiously as possible,

and remove it from the lamp.

The water, on being removed from the source of heat, will keep boiling for a few minutes, and when the challition begins to slacken, it may be renewed by dipping the retort into cold water, or pouring cold water upon it.

The water, during boiling, becomes converted into vapour; this vapour expels the air of the vessel, and occupies its place; on diminishing the heat, it con-denses; when the retort is stopped, a partial vacuum is formed; the pressure becomes diminished, and a less degree of heat is sufficient to cause an ebullation.

loss degree of heat is sumerent to cause an confittion. For the same reason, water may be made to boil under the exhausted receiver at 94° Fahra, or even at a lower degree; alkohol at 50°; and ather at =20°. On the conversion of fluids into gases is founded the following experiment, by which water is frozen by

Take a thin glass tube four or five inches long and about two or three eighths of an inch in diameter, and a two-ounce bottle furnished with a capillary tube fitted to its neck. In order to make ice, pour a little water into the tube, taking care not to wet the out-side, nor to leave it moist. Having done this, let a stream of sulphuric wther fall through the capillary The conclusion is farther strengthened by the heat I tube upon that part of it containing the water, which

by this means will be converted into ice in a few minutes, and this it will do even near a fire, or in the

midst of summer

If the glass tube, containing the water, be exposed to the brisk thorough air, or free draught of an open window, a large quantity of water may be frozen in a shorter time; and it a thin spire of whe be introduced previous to the congelation of the water, the ice will adhere to it, and may thus be drawn out conveniently.

A person might be easily frozen to death during very warm weather, by merely pouring upon his body for some time sulphuric æther, and keeping him exposed to a thorough draught of air.

Artificial Refrigeration.
The cooling or refrigeration of rooms in the summer season by sprinkling them with water, is on the prin-

ciple of evaporation

The method of making ice artificially u. the East Indies depends on the same principle. The ice-makers at Benares dig pits in large open plains, the bottom of which they strew with sugar-canes or dried stems of maize or Indian-corn. Upon this bed they place a number of unglazed pans, made of so porous an earth that the water penetrates through their whole sub-stance. These pans are filled toward evening in the winter season with water that has boiled, and left in with water that has solied, and left has solied, and left has situation till morning, when more or less ice is found in them, according to the temperature and other qualities of the akr; there being more formed in dry and warm weather, than in that which is cloudy, though it may be colder to the human body.

Every thing in this process is calculated to produce cold by evaporation; the beds on which the pans are placed, suffer the air to have a free passage to their bottoms; and the pans constantly oozing out water to their external surface, are cooled by the evaporation

of it.

In Spain, they use a kind of earthen jars, called buxaros, which are only half-baked, the earth of which is so porous, that the outside is kept moist by the water which filters through it, and though placed in the sun, the water in the jar becomes as cold as ice.

It is a common practice in China to cool wine or

other liquors by wrapping the bottle in a wer cloth, and hanging it up in the sun. The water in the cloth becomes converted into vapour, and thus cold is pro-

The blacks in Senegambia have a similar method of cooling water by filling tanned leather bags with it, which they hang up in the sun; the water oozes, more or less through the leather so as to keep the outer sur-face wet, which by its quick and continued evaporation cools the water remarkably.

The winds on the borders of the Persian gulf are

often so scorching, that travellers are suddenly suffo-cated unless they cover their heads with a wet cloth; if this be too wet, they immediately feel an intolerable cold, which would prove fatal if the moisture was not

speedily dissipated by the heat.

Condensation of Vapour If a cold vessel is brought into a warm room, parti-cularly where many people are assembled, the outside of it will soon become covered with a sort of dew.

Before some changes of weather, the stone pavements, the wails of a house, the balustrades of stair-cases, and other solid objects, feel clammy and damp.

In frosty nights, when the air abroad is colder than the air within, the dampness of this air, for the same reason, settles on the glass panes of the windows, and is there frozen into curious and beautiful figures.

Thus fogs and dews take place, and in the higher regions clouds are formed from the condensed vapour. The still greater condensation produces mists and rain.

Copacity of Bodos for containing Heat.

The property which different bodies possess, of containing at the same temperature, and in equal quantities, either of mass or bulk, unequal quantities of heat, is called their capacity for heat. The capacities of bodies for heat are therefore considered as great or small in proportion as their temperatures are either raised by the addition, or diminished by the deprivation, of equal quantities of heat, in a less or greater

In homogeneous bodies, the quantities of caloric which they contain are in the ratio of their temperature and mass: when, therefore, equal quantities of water, of oil, or of mercury, of unequal temperatures, are mingled together, the temperature of the whole will be the arithmetical mean between the temperathres of the two quantities that had been mixed to-gether. It is a serieved in truth that this should be the case, for the parietes of different portions of the same substance being alike, their effects must be equal. For instance

For instance:

Mix a pound of water at 172° with a pound at 32°, half the excess of heat in hot water will quit it to go over into the colder portion; thus the hot water will be cooled 70°, and the cold will receive 70° of temperature; therefore 172–70, or 32 + 70 = 102, will give the heat of the mixture. To attain the arithmetic product of the prod tical mean very exactly, several precautions, however,

When heterogeneous bodies of different tempera-tures are mixed together, the temperature produced is never the arithmetical mean of the two original tem-

to ascertain the comparative quantities of . In order heat of different bodies, equal weights of them are mingled together; the experiments for this purpose being in general more easily executed than those by which they are compared from equal bulks.

Thus, if one pound of mercury heated to 410° Fahr., Thus, if one pound of mercury heated to 410° Fahr., be added to one pound of water of 449°, the temperature of the blended fluids will not be changed to 77°, as it would be if the surplus of heat were divided among those fluids in the peopertion of their quantities. It will be found, on examination, to be only 47°.

On the contrary, if the pound of mercury be heated to 44°, and the water to 110°, then, on stirring them together, the common temperature will be 107°.

Hence, if the quicksilver loses by this distribution

logether, the common temperature will be 1972. Hence, if the quicksilver loses by this distribution 63° of caloric, an equal weight of water gains only 3° from this loss of 63° of heat. And, on the contary, if the water loses 3°, the mercury gains 63°. When, instead of comparing the quantities of caloric which equal weights of different bodies contain, we compare the quantities contained in equal columns, we

still find that an obvious difference takes place. it is found by experiment, that the quantity of caloric it is found by experiment, that the quantity of caloric mecessary to raise the temperature of a given volume of water any number of degrees, is, to that necessary to raise an equal volcame of mecuny, the same number of degrees as 2 to 1. This is, therefore, the preportion between the comparative quantities of caloric which these two bodies contain, estimated by their volumes; and similar differences exist with respect to every other

From the nature of the experiments by which the quantities of caloric which bodies contain are ascerquantities or correction bodies contain are ascer-tained, it is evident that we discover merely the com-parative, not the absolute quantities. Hence water has been chosen as a standard, to which other bodies may be referred; its capacity is stated as the arbitrary term of 1000, and with this the capacities of other bodies are compared.

It need not be told that paus have been taken to estimate on these experiments that portion of heat which diffuses itself into the air, or into the vessels where the mercury and water are blended together. As however such valuations cannot be made with complete accuracy, the numbers stated above are only an approximation to truth.

Radiation of Caloric.

Caloric is thrown off or radiates from heated bodies in right lines, and moves through space with incon-ceivable velocity. It is retarded in its passage by at-mospheric air, by colourless fluids, glass, and other transparent bodies.

If a glass mirror be placed before a fire, the mirror transmits the rays of light, but not the rays of heat

transmits the rays of light, but not the rays of heat. If a plate of giass, tale, or a glass vessel filled with water, be suddenly interposed between the fire and the eye, the rays of light pass through it, but the rays of leaf is perceived until the interposed substance is saturated with heat, or has reached its maximum. If then ceases to intercept the rays of caloric, and allows them to pass as freely as the rays of light. It has been lately shown by Dr. Herschel, that the rays of caloric are retrangible, but less so than the rays of light; and the same philosopher has also proposed by the light and the same philosopher has also proposed by

of light; and the same philosopher has also proved by experament, that it is not only the rays of caloric emitted by the sun, which are refrangible, but likewise;

the rays emitted by common fires, by candles, by heated iron, and even by hot water.

Whether the rays of caloric are differently refracted

in different mediums, has not yet been ascertained We are certain, however, that they are retracted by all transparent bodies which have been employed as

The rays of caloric are also reflected by polished surfaces in the same manner as the rays of light.

surfaces in the same manner as the rays of light.

This was long ago noticed by Lambert, Saussure,
Scheele, Pictet, and lately by Dr. Herschel.

Professor Pictet placed two concave metallic mirrors
opposite to each other, at the distance of about twelve
reet. When a hot body, an iron bullet for instance,
was placed in the focus of the one, and a mercurial
thermometer in that of the other, a substance radiated
from the bullet; it passed with incalculable velocity
through the air, it was reflected from the mirrors, it became, concentrated, and influenced the thermometer concentrated, and influenced the thermometer placed in the focus, according to the degree of its concentration

An iron ball two inches in diameter, heated so that it was not luminous in the dark, raised the thermometer not less than ten and a half degrees of Reaumur's scale, in six minutes.

A lighted candle occasioned a rise in the thermome-

A ignited canale occasioned a rise in the thermome-ter nearly the same.

A Florence flask containing two ounces and three drachms of boiling water, raised l'abrenheit's ther-mometer three degrees. He blackened the bulb of his thermometer, and found that it was more speedily in-fluenced by the radiation than before, and that it rose to a greater height

Pictet discovered another very singular fact: M. Protet discovered another very singular lacti-namely, the apparent radiction of cold. When, in-stead of a heated body, a Florence flask full of ice or snow is placed in the focus of one of the mirrors, the thermometer placed in the focus of the other imme-diately descends, and ascends again whenever the

cold body is removed.

This phenomenon may be explained on the supposition, that from every body at every temperature caloric radiates, but in less quantity as the temperature is low; so that in the above experiment, the thermometer gives out more caloric by radiation, than it receives from the body in the opposite focus, and therefore its temperature is lowered. Or, as Pictet has supposed, when a number of bodies near to each other have the same temperature, there is no radiation of nave the same temperature, there is no ramation or caloric, because in all of them it exists in a state of equal tension; but as soon as a body at an interior temperature is introduced, the balance of tension is broken, and caloric begins to radiate from all of them, till the temperature of that body is raised to an equality with these. In the above according to with theirs. In the above experiment, therefore, the placing the snow or ice in the focus of the mirror causes the radiation of caloric from the thermometer, and hence the diminution of temperature which it

These experiments have been since repeated by Dr. Young and Professor Davy, at the theatre of the Royal Institution. These gentlemen inflamed phosphorus by reflected caloric; and proved that the heat thus excited, was very sensible to the organs of feeding.

It is therefore evident, that caloric is thrown off from bodies in rays, which are invisible, or incapable of exciting vision, but which are capable of exciting heat.

These invisible rays of caloric are propagated in

These intestion rays of caronic are propagated in right lines, with extreme velocity; and are capable of the laws of reflection and refraction.

The hearing agency however is different in the different colouned rays of the prismatic spectrum. According to Dr. Herschef's experiments, it follows inversely the order of the retrainability of the rays of light. The least rofrangible, possessing it in the greatest degree.

Sir Henry Englefield has lately made a series of ex-Sir Henry Engleticid has lately made a series of experiments on the same subject, from which we learn, that a thermometer having its ball blackened, rose when placed in the blue ray of the prismatic spectrum in 3 from 550 to 50°, in the green, in 3 from 540 to 58°, in the yellow, in 3' from 540 to 680°; in the fall red, in 21-2 from 560 to 720°; in the confines of the red, in 21-2 from 580 to 73 120°; and quete out of the visible light, in 2.1-2 from 610 to 790.

Between each of the observations, the thermometer.

Between each of the observations, the thermometer netween each of the observations, the inclinionist was placed in the shade so long as to sink it below the heat to which it had risen in the preceding observation; of course, its rise above that point could only be the effect of the ray to which it was exposed. It was continued in the focus long after it had ceased to rise; therefore the heats given are the greatest effects of the several rays on the thermometer in each observation. A thermometer placed constantly in the shade near the apparatus, was found scarcely to vary during the

Sir Henry made other experiments with thermometers with naked balls, and with others whose balls were painted white, for which we refer the reader to the interesting paper of the Baronet, from which the

# Production of Artificial Cold, by means of Frigorific

A number of experiments have been lately made by A number of experiments have been lately made by different philosophers, especially by Pepys, Walker, and Lowitz, in order to produce artificial cold. And as these methods are often employed in chemistry, with a view to expose bodies to the influence of very low temperatures, we shall enumerate in a tabular form the different substances which may be made use of for that purpose, and the degrees of cold which they are enable of producing. they are capable of producing.

To produce the effects stated in the table, the salts must be reduced to powder, and contain their full quantity of water of crystallization. The vessel in which the freezing mixture is made, should be very thin, and just large enough to hold it, and the materials should be mixed together as expeditiously as possible, taking care to stir the mixture at the same time

with a rod of glass or wood

In order to obtain the full effect, the materials ought to be first cooled to the temperature marked in the to be list cooled to the temperature marked in the teals, by introducing them into some of the other frigorific mixtures, and then mingling them together in a similar mixture. If, for instance, we wish to produce -46°, the sow and diluted mtric acid ought to be cooled down to 0°, by putting the vessel which contains each of them into the fifth freezing mixture in the above table, before they are mingled together. If a more intense cold be required, the materials to produce it agree to be brought to the more temperature by duce it are to be brought to the proper temperature by being previously placed in the second freezing mixture

This process is to be continued till the required de-

gree of cold has been procured.

## A TABLE OF FREEZING MIXTURES.

| I | Mixtures.   | Thermometer sinks  |
|---|---|--------------------|
| ľ | Muriate of animonia   | From 50° to 10°.   |
| ı | Muriate of ammonia         5 parts           Nitrate of potassa         5           Sulphate of soda         8           Water         16 | From 50° to 4°.    |
| ı | Sulphate of soda  | From 50° to —3°.   |
| ı | Sulphate of soda 8 parts Muriatic acid 5  | From 50° to 0°.    |
| I | Snow         1 part           Muriate of soda         1   | From 32° to 0°.    |
| ı | Snow, or pounded ice  | From 6° to -5°.    |
|   | Snow, or pounded ice  | From -5° to -18°.  |
|   | Snow, or pounded ice  | From —18° to —25°. |
| 1 | Snow  | From 0° to46°.     |
| ı | Muriate of lime         3 parts           Snow         2  | From 32° —50°.     |
| ı | Potassa 4 parts<br>Snow   | From 32º to51º.    |
|   | Snow  | From —10° to —56°  |
| 1 | Snow 1 part Diluted sulphuric acid 1  | From 20° to60°.    |
| ľ | Muriate of lime 2 parts Snow  | From 0° to —66°.   |
| ľ | Muriate of lime   | From -40° to -73°. |
| ľ | Diluted sulphuric acid  | From -68° to -91°. |
| ı | Nitrate of ammonia  | From 50° to 4°.    |
| 1 | Nitrate of annonia  | From 50° to —7°.   |
| ı | Sulphate of soda 6 parts Muriate of ammonia 4 Nitrate of potassa 2 Diluted nitric acid 4  | From 50° to —10°.  |
| I | Sulphate of soda  | From 50° to —14°.  |
|   | Phosphate of soda   | From 50° to12°.    |
|   | Phosphate of soda   | From 50° to —21°.  |
| 1 | Sulphate of soda  | From 50° to 3°.    |

CALORI'METER. An instrument by which the whole quantity of absolute heat existing in a body in chemical union can be ascertained.

CALP. An argillo-ferruginous limestone.

CALPIA. (Kabba, corrupted from  $\chi a \lambda \chi a$ , yellow; from whence, says Vossius, come calthula, caldula, calculated and calculated and calculated and the caves are commended as a salad for children afflicted dula, calculated and la. The marigold. I. The manipold. It is not to four ounces, in jaundice and calculated afficient with scrotillous humours.

Caltha arvensis: Caltha vulgaris. The wild marigold its sometimes preferred to the garden marigold. Its price is given, from one to four ounces, in jaundice and calculate and the leaves are commended as a salad for children afflicted with scrotillous humours.

Caltha arvensis: Caltha vulgaris. The wild marigold its sometimes preferred to the garden marigold. Its juice is given, from one to four ounces, in jaundice and calculate its four one calthula, calculated arreans are commended as a salad for children afflicted with scrotillous humours.

Caltha arvensis: Caltha vulgaris. The wild marigold its sometimes preferred to the garden marigold. Its juice is given, from one to four ounces, in jaundice and calculate and the leaves are commended as a salad for children afflicted with scrotillous humours.

Caltha arvensis: Caltha vulgaris. The wild marigold its proferred to the garden marigold. Its juice is given, from one to four ounces, in jaundice and calculated arreans is: Caltha vulgaris. The wild marigold its pulce is given, from one to the part of th

CALTHA VULGARIS. See Caltha arvensis.

CALTRULA. The caltha is so can.
CALTROPS. See Trapa nature.
CALIFMBA. The name now adopted by the London college of physicians for the root of the Cocculus palmatus of De Candolles, in his Systema natura. It was formerly called Colombo; Colomba; and Co-lamba. This root is imported from Colomba, in Cey-lon, in circular, brown knobs, wrinkled on their outer surface, yellowish within, and consisting of cortical, woody, and medullary lamina. Its smell is aromatic; its taste pungent, and very bitter. From Dr. Percival's experiments on the root, it appears that rectified spirit of wine extracts its virtues in the greatest perfection. The watery infusion is more perishable than that of other bitters. An ounce of the powdered root, half an ounce of orange-peel, two ounces of brandy, and four teen ounces of water, macerated twelve hours without heat, and then filtered through paper, aford a sufficiently strong and tolerably pleasant infusion. The extract made first by spirit and then with water, and reduced by evaporation to a pillular consistence, is found to be equal, if not superior in efficacy, to the powder. As an antiseptic, Calumba root is inferior to the bark; but, as a corrector of putrid bile, it is much superior to the bark; whence also it is probable, that it would be of service in the West-India yellow fever. It-also restrains alimentary fermentation, without impairing digestion; in which property it resembles musparing digestion; in which property it resembles mustard. It does not appear to have the least heating quality, and therefore may be used in phthisis pulmonalis, and in hectic cases, to strengthen digestion. It occasions no disturbance, and agrees very well with a milk diet, as it abates flatulence, and is indisposed to acidity. The London, Edmburgh, and Dublin colleges, direct a tincture of Calumba root. The dose of the powdered root is as far as half a drachin, which, in urgent cases, may be repeated every third or fourth in treet cases, may be repeated every third or fourth. in urgent cases, may be repeated every third or fourth hour.

[CALUMBO. See American Columbo. A.]
CA'LVA. (From calvus, bald.) The scalp or upper part of the cranium or top of the head; so called

per part of the crantum or top of the head; so called because it often grows baid first.

CALVA'RIA. (From calvus, baid.) The upper part or the cranium which becomes soon baid. It comprehends all above the orbits, temples, ears, and occipital eminence.

CALVI'TIES. (From calvus, baid.) Calvitium.

Baldness; want or loss of hair, particularly upon the

This name is applied by Dr. Good to a species of his

This name is applied by Dr. Good to a species of his trickosis athirz, or baldness.

CALX. (Calz, cis. fœm; from kalah, to burn. Arabian.) 1. Chalk. Limestone.

2. Lime. Calz viva. The London College directs it to be prepared thus:—Take of limestone one pound: break it into small pieces, and heat it in a crucible, in a strong fire, for an hour, or until the carbonic acid is entirely driven off, so that on the addition of acetic acid, no bubbles of gas shall be extricated. Lime may be made by the same process from oyster-shells previously washed in boiling water, and cleared from extraneous matters. See *Lime*.

CALX ANTIMONII. See Antimonii oxydum.
CALX CUM KALI PURO. See Potassa cum calce.
CALX HYDRARGYRI ALBA. See Hydrargyrum præcipitatum album.

CALE METALLIC. A metal which has undergone the process of calcination, or combustion, or any other equivalent operation.

CALX VIVA. See Calz.

CALYCANTHEME. (From calyx, the flower-cup, and av00s, the flower.) The name of an order in Linneaus's fragments of a natural method, consisting of plants, which, among other characteristics, have the corolla and stamina inserted into the calyx. CALYCIFLORE. (From calyx, and fos, a flower.)

The name of an order in Linnaus's fragments of a

natural method, consisting of plants which have the

Stamina inserted into the Calyx.

CALYCINUS. (From calyx, the flower-cup.) lycinalis. Belonging to the cally of a flower; applied to the nectary, nectarium callycinum, it being a production of the celestrates. duction of the calyx; as in Tropwolum majus, the garden nasturtium.

CALYCULATUS. (From calyculus, a small calyx.)
Calyculate. Applied to a perianthium when there are

less ones, like scales, about its base, as in Dianthus caryophulus. Semina calyoulata are those which are enclosed in a hard bone like calya, as those of the Coir lachryma, or Job's tears.
CALYCULUS. (Diminutive of calyx.) A little

A botanical term for

catyx. A botanical term for

1. The membranaceous margin surrounding the apex of a seed. The varieties are,

1. Calveulus integer, the margin perfect not incised; as in Tanacetum vulgare, and Dipsacus laciniatus.
2. Calyoulus palyaccus, with chaffy scales; as in

Helianthus annuus

3. Calyculus aristatus, having two or three awns at the top; as in Tagetes patula, and Bidens tripartita.

4. Calyculus rostratus, the style of the germ remain.

ing; as in Sinapis, and Neardix cerefolium.

5. Calyculus cornutas, horned, the rostrum bent; as

in Nigella damascena.
6. Calyculus cristatus, a dentate, or incised membrane on the top of the seed; as in Hedysarum crista

II. A little calyx exterior to another proper one. CALY PTER. (From καλυπτω, to hide.) A carne excrescence covering the hæmorrhoidal vein. A carneous

excrescence covering the hemorrhoidal veim.

CALYPTRA. (From Kadurrius, to cover.) I. The
veil, or covering of mosses. A kind of membraneous
hood placed, on their capsule or fructification, like an
extinguisher on a candle, well seen in Bryum exspitosum. Linneus considered it as a calyx, but other
botanists, especially Sehreber and Smith, reckon it to
be a sort of corolla. It is either,
1. Acuminate, pointed; as in Minium and Bryum.
2. Caducous, falling off yearly; as in Bauxbaumia.
3. Conject, as in most mosses.

3. Conical; as in most mosses.
4. Smooth; as in Hypnum.

Levis, without any inequalities; as in Splanch-

6. Oblong; as in Minium.
7. Villous; as in Polytrichum.

- 8. Complete, surrounding the whole of the top of the capsule.
- 9. Dimidiate, covering only half the capsule; as in Bryum androgynum
- 10. Dentate, toothed in the margin; as in Eucalypta

In many genera it is wanting.

II. The name in Tournefort, and writings of former botanists, for the proper exterior covering or coat of the seed, which falls off spontaneously.

CALYPTRATUS. (From ealyptra, the veil, or covering of mossea.) Calyptrate: having a covering

covering or incoses. Supported in the figure of the covering of the cover. Cally X. (Calyx, icis. f; καλυξ; from καλυπτω, to cover.) Calkx. I. The flower-cup, or, more correctly, the external covering of the flower, for tho most part green, and surrounding the corolla, or gaudy

There are five genera of calyces, or flower-cups.

1. Perianthium: 2. Involucrum.

3. Amentum. 5. Gluma. 4. Spathu. 6. Perichætium

Volva.

Volva.
 The membrane which covers the papilke in the pelvis of the human kidney.
 CA'MARA. (From καμαρα, a vault.) Camarium.
 The fornix of the brain.
 The vaulted part of the auricle of the heart.
 CAMA'RIUM. (From καμαρα, a vault.) A vault.

CAMARO'MA. (From καμαρα, a vault.) Cama-osis; Camaratio. A fracture of the skull, in the rosis; Camaratio. A fra shape of an arch or vault.

CAMBIUM. The gelatinous substance, or matter of organization which Du Hamel and Mirbel suppose

produces the young bark, and new wood of plants.

Camsum. (From cambio, to exchange.) The nutritions humour which is changed into the materials of which the body is composed.

See Stalagmitis

CAMBO'GIA. (From the province of Cambaya, in the East Indies;) Cambodja and Cambogia; Cambo-dia; Cambogium; Gambogia; Gambogium. See Stalagmitis.

CAMBOGIA GUTTA. See Stalagmitis. CAMBO'GIUM. See Cambogia and Stalagmitis.

CAMBRO-BRITANNICA. See Rubus Chamamorus. Cambu'ca. Cambuta membrata. So Paracelsus calls the venereal cancer. By some it is described as a bubo, an ulcer, an abscess on the pudenda; also a boil in the groin.

Ca'mbut. The wild American myrtle of Piso and

Margrave, which is said to be astrugent.

Camel's hay. See Indropogon Schwanathus.
CAMELEON MINERAL. When pure potassa and black oxide of manganese are fused together in a crucible, a compound is formed, whose solution in water, at first green, passes spontaneously through the whole series of colonied rays to the red. From this latter tint, the solution may be made to retrograde in colour to the original green, by the addition of potassa; or it may be rendered altogether colourless, by adding either sulphureous acid or chlorine to the solution, in which case there may or may not be a precipitate, according to circumstances.

CA MERA. A chamber or cavity. The chambers of the eye are termed cameræ.

CAMERA TIO. See Camaroma.

CA'MESS. Camet. Silver.
CA'MESS. Camet. Silver.
CAM'NGA. See Canella alba.
Ca'MINUS. A furnace and its chimney.
dus it signifies a bell. In Rulan

Cam's sta forces. (From the Arabic term kamisah, an under garment.) The shirt of the focus. See Chorton. Camomile. See Chamomile.

Canonic Las. Corrupted from chamamelum. CAMM Las. Corrupted from chamamelum. CAMMORUM. (Kappopov, qua. hontimes, какр µopop, perimat; because if caten, it brings men to a miserable end.) A species of moukshoot. See Aco-

A bell. In chemistry, a receptacle like a bell, for making sulphuric acid; thus the oleum

sulphuris per campanum. CAMPANACEÆ. Bell-shaped flowers. The name of an order of Linnaus's natural method. CAMPANIFORMIS. Campanacius; Campanula-

Bell-shaped; applied to the corolla and nectaries

CAMPA'NULA (From campana, a bell: named from its shape.) The name of a genus of plants in the Linnwan system. Class, Pentandria; Order, Mono-The Bell-flower.

CAMPANULA TRACHELEUM. Cervicaria. The Great

Throat-wort: by some recommended against inflammatory affections of the throat and mouth.

CAMPAVULATUS. (From Campanala, a little bell.) Bell-shaped: applied to the corolla and nectary of plants, as in Campanula. See Corolla and Necta-

CA'MPE. (From  $\kappa a \mu \pi \tau \omega$ , to bend.) A flexure or ending. It is also used for the ham, and a joint, or articulation.

Campeachy wood. See Hamatoxylon Campechianum. Campechense, lignum. See Hamatoxylon Cam-

pechianum, or Logwood.

CAMPER, PETER, was born at Leyden in 1722, where he studied under Boerhaave, and took his degree in medicine. He then travelled for some years, and was afterward appointed a professor successively at Francker, Amsterdam, and Groningen. He was subsequently occupied in prosecuting his favourite studies, in visiting various parts of Europe, by the different societies of which he was honourably distinguishent societies of which he was donourably distinguished, and in performing many public duties in his own country, being at length chosen one of the council of state. He died in 1789 of a picurisy. He published some improvements in midwliery and surgery, but anatomy appears to have been his favourite pursuit. anatomy appears to have been in tavour parsun-the finished two parts of a work of considerable mag-nitude and importance, in which the healthy and morbid structure of the arm, and of the pelvis, are exhibited in very accurate plates, from drawings made by himself: which he appears to have purposed exby himself: which he appears to have purposed ex-tending to the other parts of the body. There are also some posthumous works of Camper possessing great merit, party on subjects of natural history, partly evineing the connexion between anatomy and paint-ing; in which latter judicious rules are fail down for exhibiting the diversity of features in persons of various countries and ages, and representing the thiferent emotions of the mind in the countenance; also for delineating the general forms of other animals, which he shows to be modified according to their economy.

CAMPESTRIS. Of or belonging to the field; applied as a trivial name to many plants, which are common in the fields.

CAMPHIRE. See Laurus camphora.

CAMPHIKE. See Eaurus campuora.
Caunhora. See Luurus camphora.
CA'MPHORA. (Camphura. Arabian. The ancients meant by camphor what now is called asphalium, or Jews pitch; καφουρα.) See Laurus camphora.
CA'MPHORE FLORES. The subtle substance which first ascends in subliming camphor. It is nothing more

than the camphor.

CAMPHOR E FLORES COMPOSITI. Camphor sublimed

CA'MPHORAS. A camphorate. A salt formed by the union of the camphoric acid with a salifiable base; thus, camphorate of alumine, camphorate of ammonia,

CAMPHORA'SMA. (From camphora; so called from its camphor-like smell.) Turkey balsam. See

Drawacephalam.
CAMPHORA'TA. See Camphorosma.
CAMPHORA'TENOLEUM. See Linimentum camphora.
CAMPHORA'TENOLEUM. See Linimentum camphoricum. An acid with peculiar properties is obtained, by distilling nitric acid eight times following from camphor; and the following is the account Bouillon Lagrange gives

of its preparation and properties

One part of camphor being introduced into a glass retort, four parts of nitric acid of the strength of 36 degrees are to be poured on it, a receiver adapted to the retort, and all the joints well luted. The retort is then to the place of the consistency of the carbon is the place of a sum of the place of the process a considerable quantity of nitrous gas, and of carbonic acid gas, is evolved; and part of the camphor is volatilized, while another part seizes the oxygen of the nitric acid. When no more vapours are extricated, the vessels are to be separated, and the sublimed camphor added to the acid that remains in the retort. A like quantity of intric acid is again to be poured on this, and the distillation repeated. This operation must be reiterated till the camphor is com-pletely acidified. Twenty parts of nitric acid at 36 are sufficient to acidify one of camphor.

When the whole of the campinor is acidified, it crystallizes in the remaining liquor. The whole is then to be poured out upon a filter, and washed with distilled water, to carryoof the intric acid it may have retained. The most certain indication of the acidification of the camphor is its crystallizing on the secuncation of the camphor is its crystallizing on the cooling of the liquor remaining in the retort. To purify this said it must be dissolved in hot distilled water, and the solution, after being filtered, evaporated nearly to hall, or till a slight pellicle forms; when the camphoric acid will be ob-

tained in crystals on cooling.

The camphoric acid has a slightly acid, bitter taste, and reddens infusion of litnus.

It crystallizes; and the crystals upon the whole re-semble those of muriate of ammonia. It effloresces on exposure to the atmosphere; is not very soluble in cold water; when placed on burning coals, it gives out a thick aromatic smoke, and is entirely dissipated; and with a gentle heat melts, and is sublimed. The mineral acids dissolve it entirely. It decomposes the sul-phate and muriate of iron. The fixed and volatile oils phate and muriate of iron. The fixed and volatile oils dissolve it. It is likewise soluble in alkohol, and is not precipitated from it by water; a property that distinguishes it from the benzoic acid. It unites easily with the earths and alkalies, and forms camphoratis.

To prepare the camphorates of lime magnesia, and alumina, these earths must be diffused in water, and crystallized camphoric acid added. The mixture must then be boiled, filtered while hot, and the solution concentrated by evaporation.

The camphorate of barytes is prepared by dissolving the pure earth in water, and then adding crystallized camphoric acid.

Those of putassa, soda, and ammonia, should be prepared with their carbonates dissolved in water; these pared with their carbonates dissolved in water; these solutions are to be saturated with crystallized camphoric acid, heated, filtered, evaporated, and cooled; by which means the camphorates will be obtained.

If the camphoric acid be very pure, they have no smell: if it be not, they have always a slight smell of

camphor.

The camphorates of alumina and baryles leave a litthe acidity on the tongue; the rest have a slightly bitterish taste.

They are all decomposed by heat; the acld being | disappearing after birth, that conveys the materna, separated and sublimed, and the base remaining pure; | blood from the ports of the liver to the ascending vensulated of the liver to th that of ammonia excepted, which is entirely volatilized

If they be exposed to the blowpipe, the acid burns with a blue flame: that of ammonia gives first a blue flame; but toward the end it becomes red.

The camphorates of lime and magnesia are little so-luble, the others dissolve more easily.

The mineral acids decompose them all. lies and earths act in the order of their affinity for the camphoric acid; which is, fime, potassa, soda, barytes, ammonia, alumina, magnesia.

Several metallic solutions, and several neutral salts,

Several metallic solutions, and several metallic solutions, and several metallic solutions decompose the camphorates; such as the nitrate of barytes, most of the calcareous salts, &c.

The camphorates of lime, magnesia, and barytes, part with their acid to alkohol.—Lagrange's Manuel d'un Cours de Chimie.

CAMPHORO SMA. (From camphora, and ogui),

a un Cours de Chamic.

CAMPHORO SMA. (From camphora, and οσμη, smell; so called from its smelling of camphire.) The camphor-smelling plant.

1. The name of a genus of plants in the Linnean system. Class, Tetrandria; Order, Monogynia.

2. The pharmacopæial name of the camphorata. See Camphorosma Monspeliensis.

CAMPHOROSMA MONSPELIENSIS. The systematic name of the plant called camphorata in the pharmame of the plant called camphorata.

Camphorosma Monspeliensis. The systematic name of the plant called camphorata in the pharmacoposias. Chamapeuce—Camphorata hirsuta—Camphorosma Monspeliaca. Stinking ground-pine. This plant, Camphorosma—folis hirsutis linearibus, of Linnaus, took its name from its smell resembling so strongly that of camphor; it has been exhibited intermining the control of the con nally, in form of decoction, in dropsical and asthmatic complaints, and by some is esteemed in fomentations against pain. It is rarely, if ever, used in modern practice

CA'MPTER. (From  $\kappa a \mu \pi 7 \omega$ , to bend.) An inflexion

or incurvation.

CA'MPULUM. (From καμπτω, to twist about.) A distortion of the eyelids or other parts.

CAMPYLO'TIS. (From καμπυλος, bent.) A pre-

ternatural incurvation, or recurvation of a part; also a distortion of the eyelids.
CA'MPYLUM. See Campylotis.
CA'NABIL. A sort of medicinal earth.

CANABI'NA AQUATICA. See Bidens.
CA'NABIS INDICA., See Bangus and Cannabis.
CANABIS PEREGRINA. See Caunabis.

Ca'nada balsam. See Pinus balsamca

Canada outcam. See Prims batsamea.

Canada maidenhar: See Aidanthum pedatum.

CANADE'NSIS. (Brought from Canada.) Canadian. A name of a balsam. See Prims batsamea.

CANALICULATUS. Chanuelled; having a long furrow; applied to leaves, pods, &c. See Leaf and

Legumen.

CANALI'CULUS. (Diminutive of canalis, a chan-nel.) A little canal. See Canalis arteriosus.

CANALIS. (From  $\chi_{avo_5}$ , an aperture, or rather from cama, a reed.) A canal.

1. Specifically applied to many parts of the body; as canalis nasalis, &

2. The hollow of the spine.
3. A hollow round instrument like a reed, for embracing and holding a broken limb.

Canalis arteriosus. Canaliculus arteriosus; Canalis botalii. A blood-vessel peculiar to the feetus, disappearing after birth; through which the blood passes from the pulmonary artery into the aorta.

Canalis nasalis. A canal going from the internal

canalis nasalis. A canal going from the internal canabins of the eye downwards into the nose; it is situated in the superior maxillary bone, and is lined with the pituitary membrane, continued from the

Canalis Petitianus. A triangular cavity, haturally containing a moisture between the two lamina of the hyaloid membrane of the eye, in the anterior part, formed by the separation of the anterior lamina from the posterior. It is named after its discoverer, M. Petit.

There are three in each ear placed in the posterior part of the labyrinth. They open by five orifices into the vestibulum. See Ear.

CAMALIS SEMISPETROS. The half bony canal of the

CANALIS VENOSUS. A canal peculiar to the fœtus,

Cana'ry balm. See Dracocephalum. Cancemum Grecorum. See Hymenwa courbaril. CANCELLATUS. Having the reticulated appearance of the cancelli of hones.

CANCE'LLI. Lattice-work; applied to the reti-

CANCE LLU'S. (From cancer, a crab.) A species of cray-fish, catled Bernard the hermit and the wrong heir; the Cancer cancellue of Linnaus; supposed to cure rheumatism, if rubbed on the part. CA'NCER. 1. The common name of the crab-fish. See Cancer Astaeus.

2. The name of a linnaus of a lin

2. The name of a disease, from καρκινος, a cráb; so called by the ancients, because it exhibited large blue called by the ancients, because it exhibited large blue veins like craft's claws: likewise called Carcinos, Carcinos, by the Greeks, Lupus by the Romans, because it east away the flesh like a wolf. Dr. Cullen places this genus of disease in the class Locales, and order Tumores. He defines it a painful scirrhous tumour, terminating in a fattal uteer. Any part of the body may be the seat of cancer, though the glands are most subject to it. It is distinguished according to its stages into carell and over the the former is meant. its schrhous state, which is a hard tumour that someits scirrhous state, which is a hard tumour that sometimes remains in a quiet state for many years. When
the cancerous action commences in it, it is attended
with frequent shooting pains: the skin that covers it
becomes discoloured, and ulceration sooner or later
takes place: when the disease is denominated open
cancer. Mr. Pearson says, "When a malignant scirthus or a watery excressence hath proceeded to a
period of ulceration, attended with a constant sense of
ardent and occasionally shooting pains, is irregular in
its figure, and presents an unequal surface; if it discharges sordid, sanious, or fetuli matter; if the edges
of the sore be thick, indurated, and often exquisitely
painful, sometimes inverted, at other thmes retorted,
and exhibit a serrated appearance; and should the
ulcer in its progress be frequently attended with hæmorrhage, in consequence of the erosion of blood-vessels; there will be little hazard of mistake in calling it
a cancerous ulcer." In men, a cancer most frequently
seizes the tongue, mouth, or penis; in women, the seizes the tongue, mouth, or penis; in women, the breasts or the uterus, particularly about the cessation of their periodical discharges; and in children, the eyes. The following description of Scirrhus and Cancer, from the above writer, will serve to elucidate the subject. A hard unequal tumour that is indolent, and without any discoloration in the skin, is called a scir-rhus; but when an itching is perceived in it, which is followed by a pricking, shooting, or lancinating pain, and a change of colour in the skin, it is usually denominated a cancer. It generally is small in the beginning, and increases gradually; but though the skin changes to a red or livid appearance, and the state of the tumour from an indolent to a painful one, it is sometimes very difficult to say when the scirrhus really sometimes very difficult to say when the scirrhus really becomes a cancer, the progress being quick or slow according to concurring causes. When the tumour is attended with a peculiar kind of burning, shooting pains, and the skin hath acquired the dusky purple or livid hue, it may then be deemed the malignant scirrhus or confirmed cancer. When thus far advanced in women's breasts, the tumour sometimes increases speedily to a great size, having a knotly unequal surface, more glands becoming obstructed, the nipple sinks in, turgid veins are conspicuous, ramifying around, and resembling a crab's claws. These are the characteristics of an occult cancer on the external parts; and we may suspect the existence of one inter-nally, when such pain and heat as has been described, succeed in parts where the patient hath before been sensible of a weight and pressure, attended with ob-tuse pain. A cancerous tumour never melts down in suppuration like an inflammatory one; but when it is ready to break open, especially in the breast, it ge-nerally becomes prominent in some minute point, attended with an increase of the peculiar kind of burn-ing, shooting pain, felt before at intervals, in a less degree and deeper in the body of the gland. In the pro-minent part of the tumour, in this state, a corroding ichor correlines transules through the skin, soon forming an ulcer: at other times a considerable quantity of a thin lymphatic fluid tinged with blood from

eroded vessels is found on it. Ulcers of the cancerous roted vessers is found of it. Orienteen in the cancerous nature discharge a thin, feetid, aerid sanies, which corrodes the parts, having thick, dark-coloured retorted lips; and fungous excrescences frequently rise from these ulcers, notwithstanding the corrosiveness of the discharge. In this state they are often attended with exceptions. with exeruciating, pungent, lancinating, burning pains, and sometimes with bleeding.

Though a scirrhus may truly be deemed a cancer, as soon as pain is perceived in it, yet every painful tumour is not a cancer; nor is it always easy to say whether a cancer is the disorder or not. Irregular hard lumps may be perceived in the breast; but on ex-amining the other breast, where no uneasiness is perceived, the same kind of tumours are sometimes found, which renders the diagnostic uncertain. Yet in every case after the cessation of the catamenia, hard, unequal tumours in the breast are suspicious; nor, though without pain, are they to be supposed indolent or in-

noxious.

In the treatment of this disease, our chief reliance must be on extirpating the part affected. Some have attempted to dispet the scirrhous tumour by leeches and various discutient applications, to destroy it by caustics, or to check its progress by narcotics; but without material success. Certainly before the disease is confirmed, should any inflammatory tendency appear, anniphogistic means may be employed with property to the operators before the disease. priety; but afterward the operation should not be de-layed; nay, where the nature of the tumour is doubt-ful, it will be better to remove it, than incur the risk of this dreadful disease. Some surgeons, indeed, have contested the utility of the operation; and no doubt the disease will sometimes appear again; from consti-tutional tendency, or from the whole not having been removed: but the balance of evidence is in favour of the operation being successful, if performed early, and to an adequate extent. The plan of destroying the part by caustic is much more tedious, painful, and uncertain. When the disease has arisen from some accident, not spontaneously, when the patient is otherwise healthy, when no symptoms of malignancy in the cancer have appeared, and the adjacent glands and absorbetween the adjacent grants and absorbents seem unaffected, we have stronger expectation of success: but unless all the morbid parts can be removed without the risk of dividing important nerves or arteries, it should scarcely be attempted. In operating it is advisable, 1. To make the external wound sufficient the discount between the properties of the strong the strong transfer of the st as advisable, 1. To make the external wound simil-ently large, and nearly in the direction of the subjacent muscular fibres. 2. To save skin enough to cover it, unless diseased. 3. To the every vessel which might endanger subsequent hemorrhage. 4. To keep the lips of the wound in contact, not interposing any dressing, &c. 5. To preserve the parts in an easy and steady position for some days, before they are inspected. 6. To use only mild and cooling applications during the cure. Supposing, however, the patient will not consent to an operation, or circumstances render it inadmissible, the uterus, for example, being affected, in-ternal remedies may somewhat retard its progress, or ternal remedies may somewhat retard its progress, or alleviate the sufferings of the patient; those, which have appeared most beneficial, are, 1. Arsenie, in very small doses long continued. 2. Contium, in doses progressively increased to a considerable extent. 3. Opium. 4. Belladonna. 5. Solanum. 6. Ferrum ammoniatum. 7. Hydrargyri oxymurins. 8. The juice of the galum aparine. When the part is external, topical applications may be useful to alleviate pain, Cleanse fum. 7. Hydragyri oxymuras. 8. The Juice of the galmin aparine. When the part is external, topical applications may be useful to alleviate pain, cleanse the sore, or correct the fotor; especially, I. Freshbruised hemlock leaves. 2. Scraped young carrots. 3. The fermenting poultice. 4. Finely levigated chalk. 5. Powdered charcoal. 6. Carbonic acid gas, introtroduced into a bladder confined round the part. 7. A watery solution of optims. 8. Liquid tar, or farwater. But none of these means can be relied upon for effecting a cure.

3. See Carcinus.

CANCER ASTACUS. The systematic name of the crab-fish, from which the claws are selected for medical use. Crab's claws and crab's eyes, as they are called, which are concretions found in the stomach, are of a calcareous quality, and possess antacid virtues. They are exhibited with their compounds in pyrosis, diarrhos, and infantile convulsions from acidity.

Cancer cancellus. See Cancellus.

Cancer gammarus. The systematic name of the

lobster

CANCER MUNDITORIUM. A peculiar ulceration of

the scrotum of chimney-sweepers.

Ca'nchrys. Parched barley.—Galen.

Cancre'na. Paracelsus uses this word instead of gangræna.

CANCRO'RUM CHELE. Crab's claws. See Carbonas calcis, and Cancer astacus CANCRORUM OCULI. See Carbonas calcis, and Can-

CA'NCRUM. (From cancer, a spreading ulcer.) The canker.

CANCRUM ORIS. Canker of the mouth; a fretted

ucceration of the gums.

CANDE'LA. (From candeo, to shine.) A candle.

CANDELA FUMALIS. A candle made of odoriforous powders and resinous matters, to purify the air and excite the spirits.

CANDELA REGIA. See Verbascum.

CANDELA'RIA. (From candela, a candle; so called from the resemblance of its stalks to a candle.) Mullein. See Verbascum.

Candy carrot. See Athamanta cretensis.

Cane La. Sometimes used by the ancients for cinnamon, or rather cassia.

namon, or rather cassia.

CANE'LLA. (Canella, diminutive of canna, a reed; so named because the pieces of bark are rolled up in the form of a reed.) The name of a genus of plants in the Linnaran system. Class, Dodecandria; Order, Monogynia. The canella-tree.

CANELLA ALBA. The pharmacopeial name of the laurel-leaved canella. See Winteria aromatica.

CANELLA ALBARALES CORTENT. See Laurus cass.

CANELLA MALBARALES CORTENT.

CANELLÆ MALABARICÆ CORTEX. See Laurus cas-

CANELLI'FERA MALABARICA. See Laurus cassia.

CANBON. (F'iom kavyn, because it was made of split cane.)- A sort of tube or instrument, mentioned by Hippocrates, for conveying the fumes of antilysteric drugs into the womb.

drugs into the womb.

CA'NICE. (From canis, a dog, so called by the ancients, because it was food for dogs.) Coarse meal.

Hence panis caniccus means very coarse bread.

CANICI'DA. (From canis, a dog, and codo, to kill, so called because dogs are destroyed by eating It.)

Dog's bane. See Aconitum.

CANICI'DIUM. (From canis, a dog, and cado, to kill.) The anatomical dissection of living dogs; for the purpose of illustrating the physiology of parts.

CANICI LIBERTA. See Cananassum.

c pulpose of mustating the physiology of parts.

CANINA LINGUA. See Cynoglossum.

CANINA MAJUS. The mandragora.

CANINA RABIES. See Hydrophobia.

CANINE. Whatever partakes of, or has any rela-

CANINE. Whatever partakes of, or has any relation to, the nature of a dog.

Canine appetite. See Bulinia.

Canine maciness. See Hydrophobia.

CANINE TREETH. Dentes canini; Cynodonles; Cuspidati of Mr. John Hunter; because they have the two sides of their edge sloped off to a point, and this point is very sharp or cuspidated; columellares of Varo and Pliny. The four eye-teeth are so called from their resemblance to those of the day. See Teeth

rmy. Ane four eye-teeth are so caned from their re-semblance to those of the dog. See Teeth. CANUNUS. (From canis, a dog.) 1. a tooth is so called, because it resembles that of a dog. See Teeth. 2. The name of a muscle, because it is near the ca-nine tooth. See Levator anguli oris. 3. A disease to which dogs are subject is called Ra-

5. A disease to which angular bies canina. See Hydrophobia. CANINUS SENTIS. See Rosa canina. CANIRU'RUS. (From canis, and rubus, a bramble.)

See Rosa canina.

CA'NIS. 1. A dog. The white dung of this animal, called album gracum, was formerly in esteem, but

now disused.

2. The frænum of the penis

CANUS INTERFECTOR. Indian barley. See Veratrum sabadilla.

trum sabadilla.

CANIS PONTICUS. See Castor.

CANNA. (Hebrew.) 1. A reed or hollow cane.

2. The fibula, from its resemblance to a reed.

CANNA ISTULA. See Cassia fistula.

CANNA INDICA. See Sagritaria alexipharmica.

CANNA MAJOR. The tibia.

CANNA MAJOR. The tibia.

CANNA MINOR CRUBIS. The fibula.

CANNABINA. (From canna, a reed, named from its reed-like stalk.) So Tournefort named his datisca.

CA'NNABIS. (From kavva, a reed. Kavvaga a reed namings, wherein hemp, &c. grow naturally Or foul springs, wherein hemp, &c. grow naturally. Or

from kanaba, from kanah, to mow. Arabian) Hemp 1. The name of a genus of plants in the Linnman sys-tem. Class, Diacia; Order, Pentandria. tem. Class, Diæcia; Order, ventameria. 2. The pharmacopæial name of the hemp-plant. See

Cannable sation. The systematic name of the hemp-plant. It has a rank smell of a narcetic kind. The effluxia from the fresh herb are said to affect the The cilitivia from the fresh herb are said to affect the eyes and head, and that the water in which it has been long steeped is a sudden poison. Hemp-seeds, when fresh, afford a considerable quantity of oil. Decoetions and emulsions of them have been recommended against coughs, ardor uring, &c. Their use, in general, depends on their emollient and demulcent qualities. The leaves of an oriental hemp, called bang or bangue, and by the Egyptians assis, are said to be used in enstern countries, as a narcotic and aphrodistic. See Rangue. ac. See Bungue.
CA'NNULA. (Diminutive of canna, a reed.) The

name of a surgical instrument. See Canula.

CA'NON. Karwy. A rule or canon, by which medicines are compounded.

Tanobase and the compounded.

Cano'NIAL. Kawwaa. Hippocrates in his book De Aëre, &c. calls those persons thus, who have straight, and not prominent bellies. He would intimate that they are disposed, as it were, by a straight rule.

Cano'Picon. (From κανωπον, the flower of the clare.)

elder.) 1. A sort of spurge, so named from its resem-

blance.

2. A collyrium, of which the chief ingredient was

The name of a collyrium mentioned by CANOPI'TE. Celsus.

CANO PUM. Κανωπον. The flower or bark of the elder-tree, in Paulus Ægineta. CANTA BRIGA. See Convolvatus. CANTA BRUM. (From kanta, Hebrew.) In Cœlius

Aurelianus it signifies brah.

Ca'ntacon. Garden saffron.

Ca'ntara. The plant which bears the St. Ignatius's

can. See Ignaria amara.
CANTERBURY. The name in history of a much celebrated town in Kent, in which there is a mineral

celebrated town in Kent, in which there is a mineral water, Cantuariensis aqua, strongly impregnated with iron, sulphur, and carbonic acid gas; it is recommended in disorders of the stomach, in gouty complaints, jaundice, diseases of the skin, and chlorosis.

CANTHARI FIGULINI. Earthen cucurbits.

CANTHARIS. (Cantharis, pl. cantharides: from randapo, a beetle, to which tribe it belongs.) Musca Hispanica; Lytta vesicatoria; The blistering fly; Spanish fly. These flies have a green sliming gold body, and are common in Spain, Italy, France, and Germany. The largest come from Italy, but the Spanish cantharides are generally preferred. The importance of these flies, by their stimulant, corrosive, and epispastic qualities, in the practice of physic and surgery, is very considerable; indeed, so much so, as to induce many to consider them as the most powerful medicine in the materia medica. When applied on to induce many to consider them as the most powerful medicine in the materia medica. When applied on the skin, in the form of a plaster, it soon raises a blister full of serous matter, and thus relieves inflammatory diseases, as phrentils, pleuritis, hepatitis, phlegmon, bubo, myositis, arthritis, &c. The tincture of these files is also of great utility in several cutaneous diseases, rheumatic affections, sciatic pains, &c. but ought to be used with much caution. See History, and Transtura contrarities. This insect is two-thirds of an activation of the property of the property in placently oblants, and of a inch in length, one-fourth in breadth, oblong, and of a gold shining colour, with soft elytera or wing sheaths, marked with three longitudinal raised stripes, and covering brown membrateous wings. An insect of a square form, with black feet, but possessed of no vesicating property, is sometimes mixed with the cantharides. They have a heavy disagreeable odour, and

According to Robiquet, who first discovered them, these plates form the true blistering principle. They might be called Visicatoria. Besides the above pecular body, canthardes contain, according to Robiquet, a green bland oil, insoluble in water, soluble in alkohol, a black matter, soluble in water, insoluble in alkohol, without blistering properties; a yellow viscal hel, a black matter, soluble in water, insoluble in alkohol, without blistering properlies; a yellow viscul
matter, mild, soluble in water and alkohol, the crystalline plates; a fatty bland matter; phosphates of
lime and magnesia; a little acctic acid, and much
lithic or uric acid. The blistering fly taken into the
stomach in doses of a few grains, acts as a poison, occassoning horrible satyriasis, delirium, convulsions,
and death. Some frightful cases are related by Orfila,
vol. i. part second. Oils, milk, syrups, frictions on the
spine, with volatile liminent and laudanum, and
deanalts, containing musk, onjum, and camplorsated draughts containing musk, opium, and camphorated emulsion, are the best antidotes

["CANTHARIDES VITTAT F. Potato flies. The Cantharis vittata of Olivier, called Lytta vittata by Fabri cius, inhabits the United Stales and South America. It is also given by Pallas among his insects of Siberia. It feeds on different plants, but chiefly on the potatio vine, and is easify caught in the morning and towards night. It agrees with the Spanish fly in its generic character, but is a smaller insect, having its elytta or wing cases black with a yellow stripe and margin, its wing cases black with a yellow stripe and margin, its head reddish yellow, and its abdomen and legs black. This fly is found by abundant experience to possess all the vesicating powers of the European cantharis, and to exert the same effect, when internally administered, upon the bladder and urethra. The potato fly might well supersede the Spanish, were it not that its visits in this many verse can remark as the contribute. and numbers. It is probable that many insects of the coleopterons class possess vesicating powers. Re-cently a fly possessing this quality was sent from the centry a my possessing this quantry was sent from the country to a physician in Boston. It proved to be the meloe prosearabens of Linnauis. The discovery of the opispastic property in any native finsect, is an object of interest. But that such insects may become extensively useful, they must be abundant and easy of collection."—Big. Mat. Med. A.]

collection."—Big. Mat. Med. A.]
CA'NTHUS. Sugar candy.
CA'NTHUS. (Kardos, the tire or iron binding of a
cart-wheel. Dr. Turton, in his glossary, supposes from
its etymology, that it originally signified the circular
extremity of the cyclid.) The angle or corner of the
eye, where the upper and under cyclids meet. That
next the nose is termed the internal or greater canthus;
and the adher, the external or less gruthus.

next use nose is termed the internal of gleace cambins, and the other, the external of less canthus.

CANTION. Sugar.

CANTILLA. (Diminutive of canna, a reed.) Canula. A small tube. The term is generally applied to a tube adapted to a sharp instrument, with which it is thrust into a cavity or tumour, containing a fluid; the perforation being made, the sharp instrument is withdrawn, and the canula left, in order that the fluid may pass through it.

CANUSA. Crystal. CAOUTCHOU'C. The substance so called is obtained from the vegetable kingdom, and exists also in the mineral.

The first, known by the names Indian rubber, 1. The first, known by the names limian rubber, Elastic gum, Cayenne resin, Cautchuc, and Caout-chouc, is prepared principally from the juice of the Siphonia elastica — foliis ternatis ellipticis integerrisopacha custom a "Joint committee and the general mis subtile can't long privaletes, (Suppl. Plant.) and also from the Jatropha clastica and Uncoola clastica. The manner of obtaining this juice is by making incisions through the bark of the lower part of the tunk of the tree, from which the fluid resin issues in great abundance, appearing of a milky whiteness as it flows abundance, appearing of a milky whiteness as it flows into the vessel placed to receive it, and into which it is conducted by means of a tube or leaf fixed in the incision, and supported with clay. On exposure to the air, this milky juice gradually inspissates into a soft, reddish, clastic, resin. It is formed by the Indians in South America into various figures, but is commonly brought to Europe in that of pear-shaped bottles, which are said to be formed by spreading the juice of the Siphonia over a proper mould of clay; as seen as one layer is dev. mother is added, until the acrid taste.

If the inspissated watery decoction of these insects be treated with pure alkohol, a solution of a resinous matter is obtained, which being separated by gentle evaporation to dryness, and submitted for some time to the action of sulphuric either, forms a yellow solution. By spontaneous evaporation, crystalline plates are deposited, which may be freed from some adhering colouring matter by alkohol. Their appearance is like beyteness. They are soluble in boiling alkohol, but precipitate as it cools. They do not dissolve in water. certain instruments of iron, or wood, it is ornamented still more than the vegetable, on the outside with various figures. This being done, petroleum affects it most, partiit remains only to pick out the mould, which is easily

effected by softening it with water

"The elasticity of this substance is its most remark able property: when warmed, as by immersion in hot water, slips of it may be drawn out to seven or eight times their original length, and will return to their for-mer dimensions nearly. Cold renders it stiff and rigid, but warmth restores its original elasticity. Exposed to the fire it softens, swells up, and burns with a bright flame. In Cayenne it is used to give light as a candle. Its solvents are æther, volatile oils, and petroleum. The æther, however, requires to be washed with water repeatedly, and in this state it dissolves it com-Pelletier recommends to boil the caoutchoud in water for an hour; then to cut it into slender threads; to boil it again about an hour; and then to put it into rectified sulphuric ather in a vessel close stopped. In this way he says it will be totally dissolved in a few days, without heat, except the impurities, which will fall to the bottom if ather enough be employed. Berniard says, the nitrous ather dissolves it better than the sulphuric. If this solution be spread on any substance, the ather evaporates very quickly, and leaves a continue of contribute unalized in its reand leaves a coating of caoutchouc unaltered in its proand leaves a country of calculations of the perfect nish, but is very long in drying. A solution of caout-chouc in five times its weight of oil of turpentine, and this solution dissolved in eight times its weight of dry this solution dissolved in eight times its weight of dry ing linseed oil by boiling, is said to form the varnish of air-balloons. Alkalies act upon it so as in time to destroy its elasticity. Sulphuric acid is decomposed by it; sulphurous acid being evolved, and the caoutchout converted into charcoal. Nitric acid arts upon it with heat; nitrous gas being given out, and oxalic acid crystallizing from the residuum. On distillation it gives out aumonia, and carburetted hydrogen.

Caoutchour may be formed into vacious miclos

Caoutchouc may be formed into various articles without undergoing the process of solution. If it be cut into a uniform ship of a proper thickness, and wound spirally round a glass or metal rod, so that the edges shall be in close contact, and in this state be boiled for some time, the edges will adhere so as to form a tube. Pieces of it may be readily joined by tonching the edges with the solution in ather; but this is not absolutely necessary, for, if they be merely softened by heat, and then pressed together, they will unite

very firmly

If linseed oil be rendered very drying by digesting it If hissed oil be rendered very drying by digesting it upon an oxide of lead, and afterward applied with a small brush on any surface, and dried by the sun or in the smoke, it will afford a pellicle of considerable firmness, transparent, burning like caoutehoue, and wonderfully elastic. A pound of this oil, spread upon a stone, and exposed to the air for six or seven months, acquired aimost all the properties of caoutehoue; it was used to make catheters and bougies, to varnish betterore, and tor other managers.

balloons, and for other purposes

Of the mineral caoutchout there are several varieties:—1. Of a blackish-brown, inclining to olive, soft, exceedingly compressible, unctrious, with a slightly aromatic smell. It burns with a bright flame, leaving a black oily residuum, which does not become dry 2 Black, dry, and cracked on the surface, but, when cut into, of a yellowish-white. A fluid resembling pyrolignic acid exudes from it when recently cut. It is pellucid on the edges, and nearly of a hyacinthine red colour. 3. Similar to the preceding, but of a somewhat firmer texture, and ligneous appearance, from having acquired consistency in repeated layers. 4. Resembling the first variety, but of a darker colour, and adhering to gray calcareous spar, with some grains of galacia. 5. Of a liver-brown colour, having the aspect of the vegetable caoutchoue, but passing by gradual transition into a brittle bittimen, of vitreous lustre, and a yellowish colour. 6. Dull reddish brown, of a spongy or cork-like texture, containing blackish-gray nuclei of impure caoutchouc. Many more varieties are enumerated.

One specimen of this caoutchouc has been found in a petrified marine shell enclosed in a rock, and another

enclosed in a crystallized fluor spar.

The mineral caoutchour resists the action of solvents

The rectified oil of petroleum affects it most, particularly when by partial burning it is resolved into a pitchy viscous substance. A hundred grains of a specimen analyzed in the dry A hundred grains of a specimen and way by Klaproth, afforded carburetted hydrogen gas 38 cubic inches, carbonic acid gas 4, bituminous oil 73 grains, acidulous phlegm 1.5, charcoal 6.25, lime 2, silex 1.5, oxide of iron .75, sulphate of lime .5, alu-

CAPAIBA. See Copaifera officinalis.

CAPAIVA. See Copaifera officinalis.

CAPAIVA. See Copaifera officinalis.

CAPAIVA. (From capeline, French, a woman's hat, or bandage.) A double-headed roller, put round

CAPE'LLA. A cupel or test. Also a name for a goat. CAPER. See Capparis.

Caper-bush. See Capparis.

Caper-bush. See Capparis,

Ca'Petus. (Kane Jos, per apharesia, pro σκαπε Jos;

from σκαπ Jo, to dig.) Hippocrates means by this
word a foramen, which is impervious, and needs the use of a chirurgical instrument to make an opening; as the anus of some new-born infants.

CA'PHORA. (Arabian.) Camphire. CA'PHURA BAROS INDORUM. A name for camphire. CAPHUR & OLEUM. An aromatic oil distilled from the root of the cinnamon-tree.

CAPILLACEUS. Capillary. CAPILLARIS. See Capillary

CAPILLARES PLANTE. Capillary, or hair-shaped

CAPILLARIS VERMICULUS. See Crinones and Dra-

CAPTILARY. (Capillaris; from capillus, a little hair: so called from the resemblance to hair or fine thread). I. Capillary vessels. The very small ramifications of the arteries, which terminate upon the external surface of the body, or on the surface of internal cavities, are called capillary.

2. Capillary attraction. See Attraction.
2. Applied to parts of plants, which are, or resemble, batter than, a capillary root is one which consists of many very fine fibres, as that of Festuca ovina, and most grassos

CAPILLA'TIO. (From fracture of the cranium. (From capillus, a hair.) A capillary

CAPI'LLUS. (Quasi capitis pilus, the hair of the head.) The hair. Small, cylindrical, transparent, insensible, and elastic filaments, which arise from the skin, and are fastened in it by means of small roots. skin, and are lastened in it by means of small roots. The human hair is composed of a spongy, cellular texture, containing a coloured liquid, and a proper covering. Hair salvided into two kinds; long, which arises on the scalp, cheek, chin, breasts of men, the anterior parts of the arms and legs, the arm-pits, groins, and pelvis: and short, which is softer than the long, and is present over the whole body, except only the paim of the hand and sole of the foot. The hair originates is the adverse members of the root and other means. nates in the adipose membrane from an oblong mem braneous bulb, which has vessels peculiar to it. The hair is distinguished by different names in certain parts; as, capitlas, on the top of the head. crinis, on the back of the head; circrimus, on the temples; cilium, on the cyclids; supercilium, on the eyebrows; vibrissa, in the nostrils; barba, on the chin; pappus, on the middle of the chin; mystax, on the upper lip; pilus, on the body

From numerous experiments Vauquelin infers, that black hair is formed of nine different substances.

namely:-

1. An animal matter, which constitutes the greater part. 2. A white concrete oil, in small quantity. 3. Another oil of a grayish-green colour, more abundant Another oil or a grayisingreen colour, note adminds than the former. 4. Iron, the state of which in the hair is uncertain. 5. A few particles of oxide of man ganese. 6. Phosphate of lime. 7. Carbonate of lime, in very small quantity. 8. Silex, in a conspicuous quantity. 9. Lastly, a considerable quantity of sul-

The same experiments show, that red hair different The same experiments show hat can had make a from black only in containing a red oil instead of a blackish green oil, and that white har differs from both these only in the oil being nearly colourless, and in containing phosphate of magnesia, which is not found in them.

CAPILLUS VENERIS. See Adianthum

CAPILLUS VENERIS CANADENSIS. See Adianthunt canadense.

CAPIPLE'NIUM. (From caput, the head, and plenus, full; a barbarous word: but Baglivi uses it to signify that continual heaviness or disorder in the head, which

that continual heaviness or disorder in the head, which the Greeks call καρηβαρία.) A catarth.

Capistra' rio. (From capistrum; a bridle: so called because the prepuce is restrained as it were with a bridle.) See Phimosis.

CAPISTRUM. (From caput, the head.)

1. A bandage for the head is so called.

2. In Vogel's Nosology it is the same as Trismus. CAPITAL. Capitalis. 1. Belonging to the caput, when the caput, contend the caput, contend the caput is the capitalis.

or head.

2. The head or upper part of an alembic.

CAPITA'III. (From caput, the head.) Medicines which relieve pains of the head.

CAPITATUS. (From caput, the head.) Headed.

CAPITE'LLUM. The head or seed vessels, fre-

uently applied to mosses, &c.

CAPITILU'VIUM. (From caput, the head, and too, to wash.) A lotion for the head. lavo, to wash.) CA'PITIS OBLIQUUS INFERIOR ET MAJOR. See Obli-

quus inferior capitis. CAPITIS PAR TERTIUM FALLOPII. See Trachelo-

mastoideus. CAPITIS POSTICUS. See Rectus capitis posticus

CAPITIS RECTUS. See Rectus capitis posticus minor. CAPITULUM. (Diminutive of caput, the head.)

A small head. A protuberance of a bone, received into the con-

cavity of another bone.

3. An alembic.

In botany, the term for a species of inflorescence, called a head or tuft, formed of many flowers, in a globular form, upon a common peduncle.

From the insertion of the flowers, it is called,

1. Pedunculated; as in Astragalus syriacus, and Eryngium maritimum.

tringium maritimum.
2. Sessile; as in Trifolium tomentosum.
3. Terminal; as in Monarda fistulosa.
4. Azillary; as in Gomphrena sessilis.
From the figure, it is said to be,
1. Globose; as in Gomphrena globosa.
2. Subrotund; as in Trifolium pratense.
3. Conic; as in Trifolium montanum.
4. Dimidiate, flat on one side, round on the other; s in Trifolium lupinaster. In Prince in Influence.
From its covering,

Naked; as in Illcechrum polygonoides.
Foliose; as in Plantago indico.

A capitulum that is very small, and is mostly in the axilla, is called Glomerûlus.

CAPIVI. See Copairera oficinalis.

CAPNELÆUM. (From καπνος, smoke, and ελαιον, oil; so named from its smoky exhalations when exposed to heat.) In Galen's works it means a resin.

CA'PNIAS. (From καπνος, a smoke.) I. A jasper of a smoke colour.

of a smoky colour.

A vine which bears white and part black grapes. CAPNI'STON. (From καπνος, smoke.) A prepara-tion of spice and oil, made by kindling the spices, and fumigating the oil.

Tunigating the oil.
CAPN'TIS. (From καπνος, smoke; so called from its smoky colour.) Tutty.
CAPNOI'DES. (From καπνος, fumitory, and ειδος, likeness.) Resembling fumitory.
CA'PNOS. (Καπνος, smoke; so called, says Blanchard, because its juice, if applied to the eyes, produces the same effect and sensations as smoke.) Capnus. The herb fumitory. See Fumaria.
CAPNUS. See Capnes.

CAPNUS. See Capnos.

CA'PPA. (A capite, from the head: so called from its supposed resemblance.) The herb monkshood. ee Aconitum. CA'PPARIS.

CA'PPARIS. (From cabar, Arab. or παρα το καππανευ αραν, from its curing madness and melancholy.) The caper plant.

1. The name of a genus of plants in the Linnæan system. Class, Polyandria; Order, Monogynia.

2. The pharmacopeial name of the caper plant. See Campairs an inace.

2. The pharmacoporus statute of the See Capparis spinosa.

Capparis spinosa. The systematic name of the caper plant. Capparis:—pendunculis solitariis uniforis, stipulis spinosis, folia samuis, capsulis coalibus of Linneeus. The buds, or unexpanded flowers of this plant are in common use as a pickle, which is said to

possess antiscorbutic virtues. The bark of the root was formerly in high esteem as a deobstruent.

CAPREOLA'RIS. (From capreolus, a tendril.)

A'RIS. (From capreolus, a tendril.) Resembling in its contortions, or other Caproclatus. appearance, the tendrils of a vine; applied to the spermatic vessels.
CAPREOLA"TUS.

See Capreolaris.

CAPREJOLUS. (Dim. of caprea, a tendril. Dr. Turton suggests its derivation from caper, a goat, the horn of which its contortions somewhat resemble.) The helix or circle of the ear, from its tendril-like contortion.

2. A Tendril. See Cirrus.

CAPRIFICATION. (Caprificatio; from caprificus, The very singular husbandry, or manage-

CAPRIFICUS. (From coper, a goat, and ficus, a fig; because they are a chief food of goats.) The wild fig-tree. See Ficus.

CAPRIMULGUS. A species of bird, the goat-sucker, to which belong the night-hawk and the whip poor-will. CAPRI'ZANS. Galen and others used this word to

express an inequality in the pulse, when it leaps, and, as it were, dances in uncertain strokes and periods. CAPSELLA. (Diminutive of capsa, a chest, from its resemblance.) A name in Marcellus Empiricus for viper's hugloss; the Echium Italicum, of Linnaus. CAPSICUM. (From καπ]ω, to bite; on account

CA PSICUM. (From  $\kappa a \pi / \omega$ , to bite; on account of its effect on the mouth.)

1. The name of a genus of plants in the Linnæan system. Class, Pentandria; Order, Monogynia.

2. The pharmacopæial name of the capsicum. See

Capsicum annuum. Capsicum annum.

Capsicum annum. The systematic name of the plant from which we obtain Cayenne pepper. Guinea pepper. Piper indicum; Lada chilli; Capo Molago; Solanum urens; Siliquastrum Pinni; Piper Brazilianum; Piper Guincense; Piper Caleuticum; Piper Mistanicum, Cayenne pepper. This species of pepper is obtained from the Cansilian send. Section 19 Capsicum; caule herbaceo, pedunculus solitariis of Linnaus. What is generally used under the name of Cayenne pepper, however, is an indiscriminate mix-ture of the powder of the dried pods of many species of capsicum, but especially of the capsicum minimum, or bird pepper, which is the hottest of all. These pep-pers have been chiefly used as condiments. They prevent flatulence from vegetable food, and give warmth to the stomach, possessing all the virtues of the oriental spices, without producing those complaints of the head which the latter are apt to occasion. An abuse of them, however, gives rise to visceral obstructions, especially of the liver. In the practice of medicine, especially of the liver. In the practice of medicine, there can be little doubt that they furnish us with one of the purest and strongest stimulants which can be introduced into the stomach, and may be very useful in some paralytic and gouty cases. Dr. Adair, who first introduced them into practice, found them useful in the cachevia Africana, which he considers as a most frequent and fatall predisposition to disease among the slaves. Dr. Wright says, that in dropsical and other complaints where chalybeates are indicated, a minute notion of powdered cansicum forms an exand other compiants where chalybeates are indicated, a minute portion of powdered capsicum forms an excellent addition, and recommends its use in lethargic affections. This pepper has also been successfully employed in a species of cynanche maligna, which proved very fatal in the West Indies, resisting the use of Peruvian bark, wine, and other remedies commonly employed. In tropical fevers, coma and delirium are common attendants; and, in such cases, cataplasms of capsicum have a speedy and happy effect. They redden the parts, but seldom blister unless when They redden the parts, but seidom blister unless when kept on too long. In ophthalmia from relaxation, the diluted juice of capsicum is found to be a valuable remedy. Dr. Adair gave six or eight grains for a dose made into pills; or else he prepared a tincture by degesting half an ounce of the pepper in a pound of alkohol, the dose of which was one or two drachms, diluted with a sufficient quantity of water. A tinctura capsici is now for the first time introduced into the London pharmacopæia

[" This article is well known for its excessively pungent and biting acrimony, exceeding that of any other article used with food. The principle on which its pungency depends is soluble in both water and alkohol, and is not dissipated by boiling. Its solutions are disturbed by various reagents, which, however, are of no consequence in practical use. It is found to contain cinchonin, resin, muclage, and an acrid principle said to be alkaline. It is sometimes adulterated with red lead to increase its weight.

Capsicum is a warm, powerful stimulant, promoting digestion, and obviating flatufence. Its abuse, however, produces visceral obstructions, and an inflamma-tory disposition in the system. It is never of service to the healthy. In disease it is administered to stimulate the stomach when in a torpid state, and to excite the nerves of the paralytic and lethargic. In the West Indies it has been employed both externally and internally in ulcerated sore throat. It is applied as a gargle in this disease, and in paralysis of the tongue. Its chief use, however, is as a rubefacient to the skin,

upon which it acts with great power. The dose inter-nally is from five to ten grains. The rubefacient cataplasm is made of meal and vinegar heated, and its surface covered with pulverized capsicum."—Big. Mat. Med. A.] CA'PSULA.

(Diminutive of capsa, a chest or case.) A capsule. I. A membraneous production enclosing a part of the body like a bag; as the capsular ligaments, the capsule of the crystalline lens, &c.

2. In botany, a dry, woody, coriaceous, or membraneous pericarpium, or seed-vessel, generally splitting into experts values.

into several valves.

The parts of a capsule, are,

1. The valves, or external shell, into which the cap-

sule splits.

2. The sutures, or the external surface in which the

The dissepimenta, or partitions by which the cap-sule is divided into several cells.

The loculamenta, or cells, the spaces between the

partitions and valves.

5. The columella, or central column, or filament, which unites the partitions, and to which the seeds are usually attached.

From the number of the valves, a capsule is said to be,

1. Binalved; as in Magnolia, and Capraria.
2. Three-valved; as in Canna indica.
3. Four-valved; as in Datura stramonium and Enothera biennis.

4. Fine-raired; as in Illeccbrum, and Coris.
5. Manyvalved; as in Huru crepitans.
6. Operculate, or circumcised, the operculum split-

ting horizontally; as in Hyosciamus niger, and Le-From the number of cells,

1. Unilocular, when there is no partition; as in Parnassia palustris, and Agrostema.
2. Bilocular, two-celled; as Hyosciamus niger, and

Datura stramonium.

Trilocular, three-celled; as in Æsculus hypocastanum, and Iris germanica

4. Quinquelocular, five-celled; as in Hibiscus syriacus, and Azalea procumbens

5. Novembocular, nine-celled; as in Punica granatum

6. Submultilocular, when there are many cells, and the partitions do not reach the middle of the capsule; as in Papaver somniferum

From the appearance of the external surface, a capsule is called.

1. Glabrous; as in Papaver somniferum. 2. Aculeate; as in Datura stramonium. 3. Muricate; as in Canna indica.

From the number of tubercles on the external

1. Capsula dicocca, or didyma; as in Spigelia

2. C. tricocca; as in Euphorbia lathyrus, and Cneorum tricoccum.

3. C. tetracocca; as in Paururus cernuus, and Evonymus curopeu:

From the number of contiguous capsules,

C. simplex, if solitary.

2. C. duplex, two aggregated; as in Paonia officinalis.

3. C. tripler; as in Veratrum album. 4. C. quintuplex; as in Aquilegia vulgaris, and Nigella.

5. C. multiplex: as in Sempervirum tectorum. From the substance, a capsule is called,

Membranaceous; as in Datura stramonium.

2. Corticated, the external fungous membrane re-

ceding from the capsule; as in Ricinus communis.

3. Woody, very hard, yet splitting; as in Hura crepitane

4. Baccated, when the seed is surrounded by a pulp; as Evonymus curopeus, and Samyda

5. Spurious, if the calyx, capsule-like, surrounding the seed, splits; as in Fagus sylvatica.

The number of seeds contained in the capsule, gives

rise to the following distinctions.

1. Capsula monosperma, one-seeded; as in Gom-phrenia, Herniaria, and Salsola.

2. C. disperma, two-seeded; as in Hebenstratia. and Buffonia.
3. C. Trisperma, three-seeded; as in Glauz, and

4. C. polysperma, many-seeded; as in Papaver som-

niferum.

CAPSULA ATRABILARIS. See Renal Glands.
CAPSULA RENALIS. See Renal Glands.
CAPSULAR. (Capsularis; from capsa, a bag.)
Surrounding a part, like a bag: applied to a ligament
which surrounds every moveable articulation, and contains the synovia like a bag.

CA'PSULE. See Capsula.

CAPSULE OF GLISSON. Capsula Glissonii. Vagina porta; Vagina Glissonii. A strong tunic, formed of cellular texture, which accompanies the vena porta; and its most minute ramifications, throughout the whole liver.

CA'PULUM. (From καμπτω, to bend.) A contor-

tion of the eyelids, or other parts.

CA'PUR. (Arabian.) Camphire CA'PUT. (Caput, itis. neut.: f Ca'pur. (Arabian.) Camphire.
CA'PUT. (Caput, itis. neut.; from capio, to take; because from it, according to Varro, the senses take their origin.) 1. The head, cranium, or skull. It is situated above or upon the trunk, and united to the cervical vertebre. It is distinguished into skull and face. On the skull are observed nertex, or crown; sinciput, or foreparts; occiput, or hinder part; and the temples. The parts distinguished on the face are well known; as the forehead, nose, eyes, &c. The arteries of the head are branches of the carotide; and the verbs cannot themselves into the jogulars. See the veins empty themselves into the jugulars. Skull and Face.

2. The upper extremity of a bone; as the head of the humerus or femur

3. The origin of a muscle; as the long head of the biceps.

A protuberance like the head of any thing; as

The beginning of a part; as caput cœci.

 The beginning of a part; as caput cœci.
 The remains of any thing after its destruction by fire, or other means: bence caput mortuum, or ashes. CAPUT GALLINAGINIS. Verumontanum. A cuta-neous eminence in the urelina of men, before the nee k of the bladder, somewhat like the head of a woodleack in miniature, around which the seminal ducts, and the ducts of the prostate gland, open

CAPUT MORTUUM. A fanciful term, much used by the old chemists, but now entirely rejected, noted the fixed residue of operations. As the As the earlier chemists did not examine these, they did not find any inconvenience in one general term to denote them: but the most slender acquaintance with modern chemistry must show, that it is utterly impracticable to denote, by one general term, all the various matters that remain fixed in certain degrees of heat. The term is obsolete, but spoken of fancifully.

CAPUT OBSTRUM. The wry neck. Mostly a spassive that the construction of the construc

modic complaint.

(A barbar sus word, from caput, the head, and purgo, to purge.) Medicines which, by causing a defluxion from the nose, purge, as it were, CAPUT PURGIA. the head, as some errhines do.

CAPYRI DION. (From καπυρος, burnt.) Capyrion. A medicated cake, much baked.

CAPY RION. See Capyridion. A genus of insects of the beetle kind. Two species, the chrysocephalus and ferrugineus, have been recommended for the toothache. They must be pressed between the fingers, and then rubbed on the gum and tooth affected.

CAROCO'SMOS. A name of the sour mare's milk, so much admired by the Tartars.

The aloe of Brazil.

CARAGUA'TA. The aloe of Brazil. CARA'NNA. (Spanish.) Caragna. Caranna

gummi. Bresilis. A concrete resinous julce, tha exudes from a large tree, of which we have no parti exides from a large tree, of which we have no parti-cular account. It is brought from New Spann and America, in little masses, rolled up in leaves of flags; externally and internally it is of a brownish colour, variegated with irregular white streaks. When fresh, it is soft and tenneious; but becomes dry and friable by keeping. Pure caranna has an agreeable aromatic smell, especially when heated, and a bitterish slightly smen, especially when heated, and a hitterish signify pungent taste. It was formerly employed as an in-gredient in vulnerary balsams, strengthening, discu-tient, and suppurating plasters; but its scarcity has caused it to be forgotten.

CARAWAY. See Carum.

CARBASUS. Kapbasos. Scribonius Largus uses this word for lint.

Azote, ........... 16.167 or 3 -

A portion of the best indigo is to be broken into small fragments, and moderately heated with eight or ten times its weight of nitric acid, of moderate strength. It will dissolve, evolving nitrous vapours and swelling up in the vessel; after the scun has fallen, the liquid is to be boiled, and nitric acid is added the liquid is to be boiled, and nitric acid is added to the liquid. on, the liquid is to be boiled, and mitric acid is added as long as any red vapours are desengaged. When the liquid has become cold, a large quantity of semi-trans parent yellow crystals will be formed, and if the ope-ration has been well conducted, no attnicial tamin or resin will be obtained. The crystals are to be washed with cold water, and then boiled in water sufficient to dissolve them. If any oily drops of tannin form on the surface of the solution, they must be carefully removed by touching them with filtering paper. fully removed by touching them with filtering paper. Then filtering the fluid, and allowing it to cool, yellow brilliant crystalline plates will be obtained, which will not lose their lustre by washing. To obtain the substance perfectly pure, the crystals must be redissolved in boiling water, and neutralized by cardionate of potassa. Upon cooling, a saft of potassa will crystallize, which should be purified by repeated crystallizations. When the substance is heated, it fuses, and is votatilized without decomposition; when subjected to a term heat, it inflames without evolution is warmen, but it inflames without evolutions.

strong heat, it inflames without explosion, its vapours burning with a yellow flame, and a carbonaccous residue remaining. It is but little soluble in cold water, but much more so in boiling water; the solution has a bright yellow colour, reddens litmus, has an extremely origin yellow colour, rendens futnus, has an extremely bitter taste, and acts like a strong acid on metallic oxides, dissolving them, and forming peculiar crystallizable salts. Ether and alkohol dissolve it readily. Carbazotic acid combines with bases, and forms salts called carbazotates." (Of which the following base based descriptions:

have been determined:)

Carbacotate of Potassa, crystallizes in long, yellow, semi-transparent, and very brilliant needles; it dissolves in 260 parts of water at 59° Fab. Strong acids decompose it. When a little is gradually heated in a glass tube, it first fuses, and then suddenly exploted preaking the tube to atoms; traces of charcoal are observed on the fragments. The slight solubility of this salt supplies an easy method of testing and separating potassa in a fluid. Even the potassa in tineture of litimus may be discovered by it; on the addition of a few drops of carbazotic acid dissolved in alkohol, to infusion of litimus, crystals of the salt gradually separating. The salt contains no water of crystallization. decompose it. When a little is gradually heated in a rate. The salt contains no water of crystallization. Its composition is potassa 16.21, acid 83.79.

Carbazotate of Soda crystallizes in fine silky yellow needles, having the general properties of the salt of potassa, but soluble in from 20 to 24 parts of water at 59° F.

Carbazotate of Ammonia forms very long, flattened, carouscian of Amazonia norms very long, flattened, brilliant, yellow crystals, very soluble in water. Heated carefully in a glass tube, it fuses, and is volatilized without decomposition; heated suddenly, it inflames without explosion, and leaves much carbonaceous residue.

Carbazotate of Baryta, obtained by heating carbo nate of baryta, and carbazotic acid with water, crys-

A concrete resinous julce, that tree, of which we have no partitis brought from New Spain and is brought from New Spain and is seen, rolled up in leaves of flags; andly it is of a brownish colour, ular white streaks. When fresh, us; but becomes dry and friable of Carbarotate of Lime obtained like the salt of baryta,

forms flattened, quadrangular prisms, very soluble in water, and detonating like the salt of potassa.

Carbazotate of Magnesia forms very long indistinct needles, of a clear yellow colour, is very soluble and

Carbaxolate of Copper, prepared by decomposing sulphate of copper by carbazotate of baryta: it crystalizes with difficulty, the crystals being of a fine green colour: it is defiquescent; when heated it is decomposed without explosion.

Carbazotate of Silver. Carbazotic acid readily dis-solves oxide of silver, when heated with it and water and the solution, gradually evaporated, yields starry groups of time acicular crystals of the colour and lusgold; the salt dissolves readily in water; when heated to a certain degree; it does not detonate, but fuses like gunpowder.

fuses like guippowder.

Proto-carbazotate of Mercury, obtained in small yellow triangular crystals, by mixing boiling solutions of the carbazotate of potassa or soda, and protonitrate of mercury. It requires more than 1200 parts water for its solution; it consists of 53.79 acid, and 46.21 protoxide of mercury per cent.

Curbazotate of Lead may be formed by decomposing a salt of lead by carbazotate of potassa or soda: it is a yellow powder, but slightly soluble, and deto-nating by heat.

All these salts detonate much more powerfully when All these salis detonate much more powerfully when heated in close vessels, than when heated in the air, and what is remarkable, those bases yielding oxygen most readily are those which explode with least force."—From Webster, as taken from Ann. de Chun. xxv. 72, and Quart. Jour. N. S. iii. A.]
CATBO. (Churball, Hebrew, burnt or dried.) Coal.
1. In medicine and chemistry, it is commonly understood to prove the common that the common the common to prove the common that the common to prove the common the common to prove the co

deistood to mean charcoal, and receives its name from

derstood to mean charcoal, and referives its name from its mode of preparation, which is by burning pieces of light wood into a dry, black coal.

2. A carbuncle. See \*Anthrax\*.

Carrio Ligax. Charcoal. As an external application, powdered charcoal has been recommended in the cure of gaugeney from external causes, and all descriptions of fortid uleers. Meat which has acquired analysis of the coal carrio and the carrio and the coal carrio and the carrio and t a mawkish or even putrid smell, is found to be dered perfectly sweet, by rubbing it with powdered It is also used as tooth-powder.

charcoal. It is also used as tooth-powder.

CA'RBON. (From carbo, coal.) Chemists apply
this term to the diamond, and what is commonly called
charcoal. The diamond is the purest form of it.

chincoal. The transite is the purest form to it.

1. When vegetable matter, particularly the more solid, as wood, is exposed to heat in close vessels, the volatile parts fly off, and leave behind a black porous substance, which is charcoal. If this be suffered to undergo combustion in contact with oxygen, or with atmospheric air, much the greater part of it will com-bine with the oxygen, and escape in the form of gas; bine with the oxygen, and escape in the form of gas; leaving about a two hundredth part, which consists chiefly of different saline and metallic substances. This pure inflammable part of the charcoal is what is commonly called carbon; and if the gas be received into proper vessels, the carbon will be found to have been converted by the oxygen into an acid, called the

been converted by the oxygen into an acid, cancer too carbonic. See Carbonic acid.

From the croumstance, that inflammable cubstances return light in a ratio greater than that of their densities, shewton intered, that the diamond was in flammable. The quantity of the inflammable part of charcond, requisite to form a hundred parts of carbonic and acid, the lambage of the flammable part of the charcond, requisite to form a hundred parts of carbonic managements. charcoal, regulable to form a huntified parisof carbonic acid, was calculated by Lavoisier to be twenty eight parts. From a careful experiment of Mr. Tennant, 37 6 parts of diamond, and 22.4 of oxygen, formed 100 of carbonic acid; and hence he inferred the identity of diamond and the inflammable part of charcoal. Well burned charcoal is a conductor of electricity,

though wood simply deprived of its moisture by baking is a non-conductor; but it is a very bad conductor of caloric, a property of considerable use on many occasions, as in lining crucibles.

It is insoluble in water, and hence the utility of charring the surface of wood exposed to that liquid, in order to preserve it, a circumstance not unknown to the ancients. This preparation of timber has been for some time to a red heat before it is again employed. Charcoal is used on particular occasions as fuel, on order to preserve it, a circumstance not unknown to the ancients. This preparation of timber has been proposed as an effectual preventive of what is commonly called the dry tot. It has an attraction, however, for a certam portion of water, which it retains very forcibly. Heated red-hot, or nearly so, it decomposes water; forming with its oxygen carbonic acid, or carbonic oxide, according to the quantity present; and with the hydrogen a gaseous carburet, called carburetted hydrogen, or heavy inflammable air. Charcoal is infusible by any heat. If exposed to a very high temperature in close vessels, it loses little or nothing of its weight, but shrinks, becomes more companies.

nothing of its weight, but shrinks, becomes more com-

pact, and acquires a deeper black colour.

Recently prepared charcoal has a remarkable pro-perty of absorbing different gases, and condensing them in its pores, without any alteration of their pro-

perties or its own.

perties or its own.

Very light charcoal, such as that of cork, absorbs scarcely any air; while the pit-coal of Rastiberg, sp. gr. 1.326, absorbs ten times and a half its volume. The absorption was always completed in 24 hours. This curious faculty, which is common to all porous bodies, resembles the action of capillary tubes on liquids. When a piece of charcoal, charged with one gas, is transferred into another, it absorbs some of it, and parts with a portion of that first condensed. In the experiments of Messus. Allen and Pepys, charcoal was found to imbite from the atmosphere in a day about one-eighth of its weight in water. For a general view one-eighth of its weight in water. For a general view of absorption, see Gas

When oxygen is condensed by charcoal, carbonic acid is observed to form at the end of several months. But the most remarkable property displayed by charcoals impregnated with gas, is that with sulphuretted hydrogen when exposed to the air or oxygen gas. The sulphuretted hydrogen is speedily destroyed, and water and sulphur result, with the disengagement of considerable heat. Hydrogen alone has no such effects. When charcoal was exposed by Sir Humphrey Davy to intense charcoai wassexposed by Sir Humpiney Davy to mense ignition in vacuo, and in condensed azot, by means of Mr. Children's magnificent voltaic battery, it slowly volatilized, and gave out a little hydrogen. The remaining part was always much harder than before; and in one case so hard as to scratch glass, while its lastre was increased. This fine experiment may be regarded as a near approach to the production of dia-

Charcoal has a powerful affinity for oxygen; whence its use in disoxygenating metallic oxides, and restoring their base to its original metallic state, or reviving the the metal. Thus too it decomposes several of the acids, as the phosphoric and sulphuric, from which it abstracts their oxygen, and leaves the phosphorus and sulphur free.

Carbon is capable of combining with sulphur, and it it bydrogen. With iron it forms steel; and it with hydrogen. unites with copper into a carburet, as observed by Dr

Priestley.

A singular and important property of charcoal is that of destroying the smell, colour, and taste of various substances: for the first accurate experiments on which we are chiefly indebted to Mr. Lowitz, of Petersburgh, though it had been long before recommended to correct the figtor of foul ulcers, and as an anti-septic. On this account it is certainly the best dentied to correct the teter of roll uncers, and as an anti-septic. On this account it is certainly the best denti-frice. Water that has become putrid by long keep-ing in wooden casks, is rendered sweet by filtering through charcoal powder, or by agitation with it; particularly if a few drops of sulphuric acid be added. Common vinegar boiled with charcoal powder be-comes perfectly limpid. Saline solutions, that are tinged yellow or brown, are rendered colourless in the same way, so as to afford perfectly white crystals. The impure carbonate of ammonia obtained from bones, is deprived both of its colour and feetid smell by sublimation with an equal weight of charcoal powder. Mait spirit is freed from its insagreeable navour by distillation from charcoal; but if roo much be used, part of the spirit is decomposed. Simple maceration, for eight or ten days, in the proportion of about 1-150th of the weight of the spirit, improves the flavour much. It is necessary that the charcoal be well burned, brought to a red heat before it is used, and used as soon as may be, or at least be carefully excluded from the air. The proper proportion too-should be ascertained by experiment on a small scale. Malt spirit is freed from its disagreeable flashould be ascertained by experiment on a small scale.

account of its giving a strong and steady heat without smoke. It is employed to convert iron into steel by smoke. It is employed to convert that any sector, comentation. It enters into the composition of gunpowder. In its finer states, as in ivory-black, lamp-black, &c. it forms the basis of black paints, Indian ink, and printers' ink.

The purest carbon for chemical purposes is obtained by strongly igniting lamp-black in a covered crucible. This yields, like the diamond, unmixed carbonic acid

by combustion in oxyger

by combustion in oxygen.

Carbon unites with all the common simple combustibles, and with azot, forming a series of most important compounds. With suiphur it forms a curious limpid liquid, called carburet of sulphur, or sulphuret of carbon. With phosphorus it forms a species of compound, whose properties are imperfectly ascertained. It unites with hydrogen in two definite proportions constituting subcarburetted and carburetted. tamea. It unites with hydrogen in two dennite proportions, constituting subcarburetted and carburetted hydrogen gases. With azot it forms prinsic gas, the cyanogen of Gay Lussac. Steel and plumbago are two different compounds of carbon with iron. In black chalk we find this combustible intimately associated with silica and alumina. The primitive combining proportion, or prime equivalent of carbon, is bining proportion, o. p. 0.75 on the oxygen scale.

This is of a gray blackish co-positions of earth

and iron, without bitumen. It has a silky lustre, and the fibrous texture of wood. It is found in small quantities, stratified with brown coal, state coal, and

pitch coal.

pitch coal.

CARBON, GASEOUS OXIDE OF. Gaseous oxide of carbon was first described by Dr. Priestley, who mistook it for a hydrocarbonate. With the true nature of it, we have been only lately acquainted. It was first proved to be a peculiar gas, by Mr. Cruikshank, of Woolwich, who made it known to us as such, in April, 180), through the medium of Nicholson's Journal for that month. Several additional properties of this gas were soon afterward noticed by Desormes, Clement, and others. Gaseous oxide of carbon forms an intermediate substance between the pure hydrocarbonates and carbonic acid gas; but not being possessed of acid properties, Mr. Cruikshank called it, conformably to the rules of the chemical nomenclature, gascous oxide of carbon, for it consists of oxygen and carbon rendered gaseous by caloric. See Carbonic oxide. Carbonaceous acid. See Carbonic acid.

CARBO'NAS. (Carbonas, atis. m.; from carbonic acid being one of its constituents.) A carbonate. A sailt formed by the union of carbonic acid with a soli-fiable basis. The carbonates employed in medicine

The potassa carbonas.

The soda carbonas

3. The creta praeparata, and the teste praeparate, which are varieties of carbonate of lime.

When the base is imperfectly neutralized by the carbonic acid, the salt is termed a subcarbonate; of which kind are employed medicinally,

 The polassæ subcarbonas.
 The sodæ subcarbonas, and the sodæ subcarbonas. exsiccata.

3. The ammoniæ subcarbonas, and the liquor ammoniæ subcarbonatis.

The plumbi subcarbonas.

The ferri subcarbonas.

The magnesiæ subcarbonas.

CARBONAS AMMONIÆ. See Ammoniæ subcarbonas. CARBONAS CALCIS. Carbonate of lime. Several varieties of this are used in medicine: the purest and pest are the creta præparata, testæ preparatæ, chelæ

CARONAS PERRIS. See Potasse carbonas.
CARONAS PLAME. See Potasse carbonas.
CARONAS PLAME. See Potasse carbonas.
CARONAS PLAME. See Plamb subcarbonas.
CARONAS PLAME. See Plamb subcarbonas.
CARONAS PLAME. See Potasse carbonas.

CARBONAS FOLASSA. See Et pleasa et vones.
(CARBONAS SODÆ. See Søde carbonas.
CARBONATE. See Carbonas.
Carbonate of barytes. See Heavy spar.
Carbonated hydrogen gas. See Carburetted hydrocarbonased

carbonic ACID. Acidum carbonicum. air; Carbonaceous acid; Calcareous acid;

acid. "This acid, being a compound of carbon and oxygen, may be formed by burning charcoal; but as it exists in great abundance ready formed, it is not neces sary to have recourse to this expedient. sary to have recourse to this expedient. All that is necessary is to pour sulphuric acid, diduted with five or six times us weight of water, on common chalk, which is a compound of carbonic acid and time. An effervescence ensues; carbonic acid is evolved in the state of gas, and may be received in the usual manner.

Carbonic acid abounds in great quantities in nature, and appears to be produced in a variety of circum stances. It composes 44-100th of the weight of himestone, marble, calcareous spar, and other natural spe cimens of calcareous earth, from which it may be extricated, either by the simple application of heat, or by the superior affinity of some other acid; most acids having a stronger action on bodies than this. This last process does not require heat, because fixed air is strongly disposed to assume the elastic state. Water, under the common pressure of the atmosphere, and at a low temperature, absorbs somewhat more than its bulk of fixed air, and then constitutes a weak acid. If the pressure be greater, the absorption is augmented. It is to be observed, likewise, that more gas than water will absorb should be present. Heated water absorbs less; and if water impregnated with this acid be exposed on a brisk fire, the rapid escape of the aerial bubbles affords an appearance as if the water were at the point of boiling, when the heat is not greater than hand can bear. Congelation separates it readily and completely from water; but no degree of cold or pressure has yet exhibited this acid in a dense or concentrated state of fluidity.

Carbonic acid gas is much denser than common air, and for this reason occupies the lower parts of such mines or caverns as contain materials which afford it by decomposition. The miners call it choke damp. The Grotto del Cano, in the kingdom of Napies, has been famous for ages on account of the effects of a straum of fixed air which covers its bottom. It is a cave or hole in the side of a mountain, near the lake Aguano, measuring not more than eighteen feet from its entrance to the inner extremity; where if a dog or other animal that holds down its head be thrust, it is

innuediately killed by inhaling this noxious fluid.
Carbonic acid gas is emitted in large quantities by bodies in the state of the vinous fermentation, and on account of its great weight, it occupies the apparently empty space or upper part of the vessels in which the empty space or upper part of the vessels in which the fermeating process is going on. A variety of striking experiments may be made in this stratum of elastic fluid. Lighted paper, or a candle disped into it, is immediately extinguished; and the smoke remaining in the carbonic acid gas renders its surface visible, which may be thrown into waves by agitation like briskly agitated, it soon becomes impregnated, and obtains the pungent taste of Pyrmont water. In consequence of the weight of the carbonic acid gas, it may be lifted out in a pitcher, or bottle, which, if well corked, may be used to convey it to great distances, or it may be drawn out of a vessel by a cock like a liquid. The effects produced by pouring this invisible fluid from one vessel to another, have a very singular appearance: if a candle or small animal be placed in perfance: if a candle or small animal be placed in a deep vessel, the former becomes extinct, and the latter expires in a few seconds, after the carbonic acid gas is poured upon them, though the eye is incapable of distinguishing any thing that is poured. If, however, if be poured into a vessel full of air, in the sunshine, its density being so much greater than that of the air, renders it slightly visible by the indulations and streaks it forms in this fluid, as it descends through it.

Carbonic acid reddens infusion of litmus; but the reduces vanishes he remarked to the air, as the acid.

redness vanishes by exposure to the air, as the acid flies off. It has a peculiar sharp taste, which may be perceived over vats in which wine or beer is fermentperceived over vacs in which while or neer is terment-ing, as also in sparkling Champaign, and the brisker kinds of cider. Light passing through it is refracted by it, but does not effect any sensible alteration in it, though it appears, from experiment, that it favours the separation of its principles by other substances. It will not unite with an overdose of oxygen, of which it contains 72 parts in 100, the other 28 being pure carbon. It not only destroys life, but the heart and muscle of animals killed by it lose all their irritability, so as to be insensible to the stimulus of galvanism.

Carbonic acid is dilated by heat, but not otherwise altered by it. It is not acted upon by oxygen, or any of the simple combustibles. Charcoal absorbs it, but gives it out again unchanged, at ordinary tempera-tures; but when this gaseous acid is made to traverso charcoal ignified in a tube, it is converted into carbonic oxide. Phosphorus is insoluble in carbonic acid gas; but, as already observed, is capable of decomposing it by compound affinity, when assisted by sufficient heat; and Priestley and Cruikshank have shown that iron, and triesticy and Cruissnauk have shown that 1601, zinc, and several other metals, are capable of producing the same effect. If carbonic acid be mixed with subphuretted, phosphuretted, or carburetted gas, it renders them less combustible, or destroys their combustibility entirely, but produces no other sensible change. Such mixtures occur in various analyses, and particularly in the products of the decomposition of vegetable and animal substances. The inflammable air of marshes is frequently carburetted hydrogen intimately mixed with carbonic acid gas, and the sulphuretted hydrogen gas obtained from mineral waters is very often mixed

Carbonic acid appears from various experiments of Caroonic acid appears from various experiments of Ingenituous to be of considerable utility in promoting vegetation. It is probably decomposed by the organs of plants, its base furnishing part at least of the carbon that is so abundant in the vegetable kingdom, and its oxygen contributing to replenish the atmosphere with that necessary support of life, which is continually diminished by the respiration of animals and other

The most exact experiments on the neutral carbonates concur to prove, that the prime equivalent of carbonic acid is 2.75; and that it consists of one prime of carbon=0.75+2.0 oxygen

Water absorbs about its volume of this acid gas, and thereby acquires a specific gravity of 1.0015. On freezing it, the gas is as completely expelled as by boiling. By artificial pressure with forcing pumps, water may be made to absorb two or three times its bulk of carbonic acid. When there is also added a little potassa or soda, it becomes the aërated or carbonate deladio. mated alkaline souter, a pleasant beverage, and a not inactive remedy in several complaints, particularly dyspepsia, hiccup, and disorders of the kidneys. Alkohol condenses twice its volume of carbonic acid. The most beautiful analytical experiment with carbonic acid, is the combustion of potassium in it, the formation of potassa, and the deposition of charcoal.

In point of affinity for the earths and alkalies, car-bonic acid stands apparently low in the scale. Before its true nature was known, its compounds with their were not considered as salts, but as the earths and were not consucred as saits, but as the earths and alkalies themselves, only distinguished by the names of mild, or efference, then their qualities of effer-vescing with acids, and wanting causticity. The carbonates are characterized by effereesing

with almost all the acids, even the acetic, when they evolve their gaseous acid, which, passed into lime water by a tube, deprives it of its taste, and converts

water by a tube, depirted to its taste, and conversity in into chalk and pure water.

The carbonate of barytes, found native in Cumberland, by Dr. Withering. From this circumstance it has been termed Witherite. It has been likewise

has been termed Witherite. It has been likewise called aërated heavy spar, aërated baroselenite, aërated heavy spar, aërated baroselenite, aërated heavy sparthe or barytes, barolite, &c. Carbonate of strontian, found native in Scotland, at Strontian in Argylishire, and at Leadhills. Carbonate of lime exists in great abundance in nature, variously mixed with other bodies, under the names of marble, chalk, limestone, stalactites, &c. in which it is of more important and extensive use than account of the salla, event nethaus the myinte of any other of the salts, except perhaps the muriate of

The carbonate, or rather sub-carbonate of potassa, The carbonate, or rather sub-carbonate of potassa, was long known-by the name of vegetable alkali. It was also called fixed nitre, salt of tartar, salt of vormwood, &c. according to the different modes in which it was procured; and was supposed to retain something of the virtues of the substance from which it was extracted. This error has been sometime exploded, but the knowledge of its true nature is of more record date.

As water at the usual temperature of the air dissolves rather more than its weight of this salt, we have thus a ready mode of detecting its adulterations in general; and as it is often of consequence to know how

much alkali a particular specimen contains, this may

much alkali a particular specimen contains, this may be ascertained by the quantity of sulphuric acid it will saturate. This sait is deliquescent. It consists of 6 potassa-£2.75 carbonic acid=8.75.

The bi-carbonate of potassa crystallizes in square prisms, the apices of which are quadrangular pyramids. It has a urinous but not caustic taste; changes the syrup of violets green: boiling water dissolves five-sixtlis of its weight, and cold water one-fourth; alkohol, even when hot, will not dissolve more than 1-1900th. Its specific gravity is 2.012. When it is 1-1200th. Its specific gravity is 2.012. When it is very pure and well crystallized it effloresces on exposure to a dry atmosphere, though it was formerly considered as deliquescent. It was thought that the common salt of tartar of the shops was a compound of this carbonate and pure potassa; the latter of which, being very deliquescent, attracts the moisture of the air till the whole is dissolved. From its smooth feel, and the manner in which it was prepared, the old chemists

manner in which it was prepared, the old chemists called this solution oil of tartar per deligatium.

The bi-carbonate of potassa melts with a gentle heat, loses its water of crystallization, amounting to 9-100th, and gives out a portion of its carbonic acid; though no degree of heat will expel the whole of the acid. Thus, as the carbonate of potassa is always prepared by incineration of vogetable substances, and lixiviation, it must be in the intermediate state; or that of a carbonate with excess of alkali: and to obtain the true carbonate with excess of alkali: and to obtain the true carbonate with excess of alkali: tain the true carbonate we must saturate this salt with tan the true carbonate we must saturate this salt with carbonic acid, which is best done by passing the acid in the state of gas through a solution of the salt in twice its weight of water; or, if we want the potassa pure, we must have recourse to lime, to separate that portion of acid which fire will not expel.

The bi-carbonate, usually called super-carbonate by the apothecaries, consists of 2 primes of carbonic acid =5.500, 1 of potassa=6, and 1 of water=1.125, in all 12.625.

12.625.

12.625.

The carbonate of soda has likewise been long known, and distinguished from the preceding by the name of mineral alkali. In commerce it is usually called barilla, or soda; in which state, however, it always contains a mixture of earthy bodies, and usually common salt. It may be purified by dissolving it in a small portion of water, filtering the solution, evaporating at a low heat, and skimming off the crystals of nuriate of soda as they form on its surface. When these cease to form, the solution may be suffered to cool, and the carbonate of soda will crystallize. cool, and the carbonate of soda will crystallize.

It is found abundantly in nature. In Egypt, where it is collected from the surface of the earth, particularly after the desiccation of temporary lakes, it has been known from time immemorial by the name of been known from time immemorial by the name of nitrum, natron, or natrum. A great deal is prepared in Spain by incinerating the maritime plant of salsola; and it is manufactured in this country, as well as in France, from different species of sea-weeds. It is likewise found in mineral water, and also in some

animal fluids.

It crystallizes in irregular or rhomboidal decaedrons, formed by two quadrangular pyramids, truncated very near their bases. Frequently it exhibits only rhomboi-dal laming. Its specific gravity is 1.3591. Its taste is dal tamine. Its specific gravity is 1:3591. Its taste is urinous, and slightly acrid, without being caustic. It changes blue vegetable colours to a green. It is soluble in less than its weight of boiling water, and twice its weight of cold. It is one of the most efflorescent saits known, falling completely to powder in no long time. On the application of heat it is soon rendered fluid from the great quantity of its water of crystallization; but is dried by a continuance of the heat, and then melts. It is somewhat more fasible than the cashing of parts of parts of parts of parts of the property of methods. carbonate of potassa, promotes the fusion of earths in a greater degree, and forms a glass of better quality. Like that, it is very tenacious of a certain portion of its carbonic acid. It consists in its dry state of 4 soda, +2.75 acid, =6.75.

72.73 acti, =0.73.

But the crystals contain 10 prime proportions of water. They are composed of 22 soda, +15.3 carbonic acid, +62.7 water in 100 parts, or of 1 prime of soda =4.1 of carbonic acid =2.75, and 10 of water =11.25, in whole 18.

The biscarbonate of soda may be prepared by saturating the solution of the preceding salt with carbonate carbonate of soda.

bonic acid gas, and then evaporating with a very gen-tle heat to dryness, when a white irregular saline mass is obtained. The salt is not crystallizable. Its

constituents are 4 soda,  $\pm 5.50$  carb. acid,  $\pm 1.125$  water,  $\pm 10.625$ ; or in 100 parts 37.4 soda,  $\pm 52$  acid, +10.6 water.

The curbonate of magnesia, in a state of Imperfect saturation with the acid, has been used in medicine for some time under the simple name of magnesia. It is prepared by precipitation from the sulphate of magnesia by means of carbonate of potassa. Equal parts of sulphate of magnesia and carbonate of po-tassa, each dissolved in its own weight of boiling water, are filtered and mixed together hor; thesulphate water, are interest and mixed rogether not; the suffigure of potassa is separated by copious washing with wa-ter; and the carbonate of magnesia is then left to drain, and afterward spread thin on paper; and car-ried to the drying stove. When once dried it will be

ried to the drying stove. When once dried it will be in friable white cakes, or a fine powder.

To obtain carbonate of magnesia saturated with acid, a solution of sulphate of magnesia may be mixed cold with a solution of carbonate of potassa; and at the expiration of a few hours, as the superfluous carbonate of magnesia will crystallize in very regular transparent prisms of six equal sides. It may be equally obtained by dissolving magnesia in water impremented with carbonate and carbonate of magnesia will crystallize in very regular transparent prisms of six equal sides. It may be equally obtained by dissolving magnesia in water impremented with carbonate order. pregnated with carbonic acid, and exposing the solu-

tion to the open air.

These crystals soon lose their transparency, and be-These crystals soon lose their transparency, and become covered with a white powder. Exposed to the fire in a crucible, they decrepitate slightly, lose their water and acid, fall to powder, and are reduced to one-fourth of the original weight. When the common carbonate is calcined in the grate, it appears as if boiling, from the extrication of carbonic acid; a small portion ascends like a vapour, and is deposited in a white powder on the cold bodies with which it comes into contact; and in a dark place toward the cord. into contact; and in a dark place, toward the end of the operation, it shines with a bluish phosphoric light. It thus loses half its weight, and the magnesia is left quite pure.

As the magnesia of the shops is sometimes adulte-rated with chalk, this may be detected by the addition rated with chars, this may be detected by the addition of a little sulphuric acid diluted with eight or ten times its weight of water, as this will form with the magnesia a very soluble salt, while the sulphate of lime will remain undissolved. Calcined magnesia should dissolve in this dilute acid without any effer-

The crystallized carbonate dissolves in forty-eight times its weight of cold water; the common carbonate requires at least ten times as much, and first forms a paste with a small quantity of the fluid.

The carbonate of ammonia, once vulgarly known by the name of volatile sal ammoniae, and abroad by that of English volatile salt, because it was first prepared in this country, was commonly called mild volatile alkali, before its true nature was known.

When very pure it is in a crystalline form, but seldom very regular. Its crystals are so small, that it is difficult to determine their figure. The taste and smell of this salt are the same with those of pure ammonia, but much weaker. It turns the colour of violets green, but much weaker. It turns the colour of violets green, and that of tumeric brown. It is soluble in rather more than twice its weight of cold water, and in its own weight of hot water; but a boiling heat volatilizes it. When pure, and thoroughly saturated, it is not perceptibly alterable in the air; but when it has an excess of ammonia, it softens and grows moist. It cannot be doubted, however, that it is soluble in air; for if left in an open vessel, it gradually diminishes in weight, and its peculiar smell is diffused to a certain distance. Heat reality sublines, but does not decan Heat readily sublines, but does not decomdistance.

It has been prepared by the destructive distillation of animal substances, and some others, in large fron pots, with a fire increased by degrees to a strong redical, the aqueous liquor that first comes over being removed, that the salt might not be dissolved in it. Thus we had the salt of hartshorn, salt of soul, essential salt of vipers, &c. If the salt were dissolved in the water, it was called spirit of the substance from which it was obtained. Thus, however, it was much contaminated by a fettid animal oil, from which it required to be subsequently purified, and is much better tabricated by mixing one pair of muriate of ammonia and two of carbonate of lime, both as dry as possible, and subliming in an earthen retort.

Sir H. Davy has shown that its component parts of animal substances, and some others, in large iron

Sir H. Davy has shown that its component parts

vary, according to the manner of preparing it. The lower the temperature at which it is formed, the greater the proportion of acid and water. Thus, if formed at the temperature of 300°, it contains more than fifty per cent. of alkali; if at 60°, not more than

There are three or four definite compounds of carbo-

nic acid and ammoni

The first is the solid sub-carbonate of the shops. It consists of 55 carbonic acid, 30 ammonia, and 15 wa

consists of 55 canboine acid, 39 animonia, and 75 was ter; or probably of 3 primes carbonic acid, 5 animonia, and 2 water; in all 14.7 for its equivalent. 2d, Gay Lusaac has shown that when 100 volumes of animoniacal gas are mixed with 50 of carbonic acid, the two gases precipitate in a solid salt, which must consist by weight of 56 1-3 acid +43 2 3 alkali, being in the ratio of a prime equivalent of each.

3d, When the pungent sub-carbonate is exposed in

powder to the air, it becomes scentless by the evapoprovider to the art, it occomes seemess by the evapora-ration of a definite portion of this ammonia. It is then a compound of about 55 or 56 carbonic acid, 24.5 am-monia, and 22.5 water. It may be represented by 2 primes of acid, 1 of ammonia, and 2 of water, =9.875. Another compound, it has been supposed, may be

prepared by passing carbonic acid through a solution of the sub-carbonate till it he saturated. This, howprepared by passing carbonic acta invegars of the sub-carbonate till it be saturated. This, however, may be supposed to yield the same product as the last salt. Jussae infers the neutral carbonate to consist of equal volumes of the two gases, though they are all the salt proportions. This would give 18.1 to 46.5; the very proportions in the scentless salt. For 46.5; 18.1; 55; 21.42.

It is well known as a stimulant usually put into smelling-bottles, frequently with the addition of some

Fourtroy has found, that an ammoniaco-magnesian carbonate is formed on some occasions. Thus, if carbonate of ammonia be decomposed by magnesia in bonate of animonia be decomposed by maguesia in the moist way, leaving these two substances in con-tact with each other in a bottle closely stopped, a com-plete decomposition will not take place, but a portion of this trisait will be formed. The same will take place if a solution of carbonate of magnesia in water impregnated with carbonate of magnesia in water pure animonia; or if animoniaco-magnesian sulphate, utterte, or puriate, be necessipated by carbonate of nitrate, or muriate, be precipitated by carbonate of potassa or of soda.

The properties of this triple salt are not much known, but it crystallizes differently from the carbonate of either of its bases, and has its own laws of so-

lubility and decomposition.

The carbonate of glucine is in a white, dull, clotty powder, never dry, but greasy, and soft to the feel. It is not sweet, like the other saits of glucine, but insipid. It is very light, insoluble in water, perfectly unalterable by the air, but very readily decomposed by fire. A saturated solution of carbonate of ammonia takes up a certain portion of this carbonate, and forms with it a

Carbonic acid does not appear to be much disposed to unite with argillaceous carth. Most clays, how ever, afford a small quantity of this acid by heat. The snowy white substance, resembling chalk, and known by the name of lac lune, is found to consist almost wholly of alumina, saturated with carbonic acid. A saline substance, consisting of two six-sided pyramids joined at one common base, weighting five or six grains, and of a taste somewhat resembling alum, was produced by leaving an ounce phial of water impregnate with carbonic acid, and a redundancy of alumina, exposed to spontaneous evaporation for some months.

Naturally has found that sea of the common control of the control

posed to spontaneous evaporation for some months.
Vauquelin has found, that carbonate of zircone may be formed by evaporating muriate of zircone, redissolving it in water, and precipitating by the alkaline carbonate. He also adds, that it very readily combines, so as to form a triple salt, with either of the three alkaline carbonates."—Ure's Chem. Dict.

This gas is much esteemed in the cure of typhus fevers, and of irritability and weakness of stomach, producing vomiting. Against the former diseases it is given by administering yest, bottled porter, and the like; and for the latter it is disengaged from the car-

bonated alkali by lemon juice, in a draught given while effervescing.

CARBONIC OXIDE. Gaseous oxide of carbon.

"A gaseous compound of one prime equivalent of carbon. bon, and one of oxygen, consisting by weight of 0.75

of the former, and 1.00 of the latter. Hence the prime of the compound is 1.75, the same as that of azote.
This was cannot be formed by the chemist by the direct combination of its constituents; for at the temperathe requisite for effecting a union, the carbon attracts its full dose of oxygen, and thus generates carbonic acid. It may be procured by exposing charcoal to a long continued heat. The last products consist chiefly of carbonic oxide.

To obtain it pure, however, our only plan is to abstract one proportion of oxygen from carbonic acid, either in its gascous state, or as condensed in the car-

bonates.

It we subject to a strong heat, in a gun barrel or retort, a mixture of any dry earthy carbonate, such as chalk, or carbonate of stronties, with metallic filings or chareoal, the combined acid is resolved into the gaseous oxide of carbon. The most convenient mixture is equal parts of dried chalk and iron, or zinc

The specific gravity of this gas is stated by Gay Lussac and Thenard, from theoretical considerations, to be 0.96782, though Mr. Cruikshanke's experimental

estimate was 0.9569.

This gas burns with a dark blue flame. Davy has shown, that though carbonic oxide, in its combustion, produces less heat than other inflamma-Combission, produces less near than over tempera-ture. It inflames in the atmosphere, when brought into contact with an iron wire leated to dull reduess, whereas carburetted hydrogen is not inflammable by a similar wire, unless it is heated to whiteness, so as to burn with sparks. It requires, for its combustion, half its volume of oxygen gas, producing one volume of carbonic acid. It is not decomposable by any of the carbonic acid. It is not decomposable by any of the simple combustibles, except potassium and sodium. When potassium is heated in a portion of the gas, potassa is formed with the precipitation of charcoal, and the disengagement of heat and light. Perhaps trou, at a high temperature, would condense the oxygen and carbon by its strong admirty for these substances. Water condenses 1-50th of its bulk of the gas. The above processes are those usually prescribed in our systematic works, for procuring the oxide of carour systematic works, for procuring the owner of cas-bon. In some of them, a portion of carbonic acid is evolved, which may be withdrawn by washing the gaseous product with weak solution of potassa, or milk of lime. We avoid the chance of this impurity by extricating the gas from a mixture of dry carbon ate of barytes and iron filings, or of oxide of zinc, and previously calcined charcoal. The gaseous product from the first mixture, is pure oxide of carbon. Oxide of iron, and pure barytes, remain in the retort. Car-bonic oxide, when respired, is fatal to animal life. Sir IJ. Davy took three inspirations of it, mixed with about one-fourth of common air; the effect was a temporary loss of sensation, which was succeeded by giddiness, sickness, acute pains in different parts of the diness, sickness, acute pains in different parts of the hody, and extreme debility. Some days elapsed before he entirely recovered. Since then, Mr. Witter of Dublin was struck down in an apoptectic condition, by breathing this gas; but he was speedily restored by the inhabition of oxygen. See an interesting account of this experiment, by Mr. Witter, in the Phil. Mag.

When a mixture of it and chlorine is exposed to which a mixture of it and chorine is exposed to sunshine, a curious compound, discovered by Dr. John Davy, is formed, to which he gave the name of phosene gas. It has been called chlorocarbonic acid, though chlorocarbonous acid seems a more appropriate nne."—Ure's Chem. Diet.
CARBUNCLE. 1. The name of a gem highly

prized by the ancients, probably the alamandine, a va

prized by the ancients probably are assimulatine, a variety of noble garnet.

2. The name of a disease. See Anthrax.

CARBU'NCLUS. (Diminutive of carbo, a burn ing coal.) A carbuncle. See Anthrax.

CARBURET. Carburctum. A combination of charcoal with any other substance: thus carburetted between the background helium carbon in solutions. hydrogen is hydrogen holding carbon in solution; car buretted iron is steel, &cc

CARBURET OF SULPHUR. Sulphuret of carbon Alkohol of sulphur. "This interesting liquid was ori ginally obtained by Lampadius in distilling a mixture of pulverized pyrites and charcoal in an earthen re-tort, and was considered by him as a peculiar com-pound of sulphur and hydrogen. But Clement and

Desormes first ascertained its true constitution to be Desortines first accretained its true constitution to be carburetted sulphur; and they invented a process of great simplicity, for at once preparing it, and proving its nature. Thoroughly calcined charcoul is to be put into a porcelain tube, that traverses a furnace at a sight angle of inclination. To the higher end of the sight angre or inclination. To the higher coa or the tube, a retort of glass, containing sulphur, is luted; and to the lower end is attached an #lopter tube, which enters into a bottle with two tubulures, half full which enters into a bottle with two tubulures, nail our of water, and surrounded with very cold water or ice. From the other apesture of the bottle, a bent tube proceeds into the pneumatic trough. When the porcelain tube is brought into a state of ignition, heat is applied to the sulphur, which subliming into the tube, combines with the charcoal, forming the liquid carburet.

ones with the charcoal, forming the liquid carburet. The carburet of sulphur dissolves camphor. It does not unite with water; but very readily with alkohol and ather. With chloride of azot it forms a non-detonating compound. The waters of potassa, burytes, and lime, slowly decompose it, with the evolution of carbonic acid gas. It combines with ammonia and lime, forming carbo-sulphurets. The carburet, satureties, satureties, and complete the carburet, satureties. nine, rotting caros-suprinces. The caronici, satu-rated with ammoniacal gas, forms a yellow pulveru-lent substance, which sublines unaltered in close ves-rels, but is so deliquescent that it cannot be passed from one vessel to another without absorbing moisture. from one vessel to another without absorbing moisture. When heated in that state, crystals of hydrosulphuret of ammonla form. The compound with lime is made by heating some quicklime in a tube, and causing the vapour of carburet to pass through it. The lime becomes incandescent at the instant of combination.

When the carburet is left for some weeks in contact with nitro-nuriatic acid, it is converted into a sub-stance having very much the appearance and physical properties of camphor; being soluble in alkohol and oil, and insoluble in water. This substance is, ac cording to Berzelius, a triple acid, composed of two atoms of muriatic acid, one atom of sulphurous acid, and one atom of carbonic acid. He calls it, muriatico-

sulphurous-carbonic acid.

When potassium is heated in the vapour of the car buret, it burns with a reddish flame, and a black film Dutet, it burns with a readish hand, and a black him appears on the surface. On admitting water, a green-ish solution of sulphuret of potassa is obtained, con-taining a mixture of charcoal. From its vapour pass-ing through igotted muriate of silver, without occa-sioning any reduction of the metal, it is demonstrated that this carburet is destitute of hydrogen.

When the compound of potassa, water, and carbu-ret of sulphur, is added to metallic solutions, precipi-tates of a peculiar kind, called carbo-sulphurets, are

Carburet of sulphur was found by Dr. Brewster to exceed all fluid bodies in refractive power, and even the solids, flint-glass, topaz, and tournaline. In dis-persive power it execets every fluid substance except oil of cassia, holden an intermediate place between phosphorus and balsam of Tolu."—Ure.

phesphorus and balsam of Tolu."—Urc.

\*\*Canturger Fred Withouser Gas. Carbonated hydrogen gas; Heavy inflammable air; Hydro-carbonate.

\*\*Olegant gas. Hydroguret of carbon. "Of this compound gas we have two species, differing in the propritions of the constituents. The first, consisting of I prime equivalent of cach, is carburetted hydrogen; the second, of 1 prime of carbon, and 2 of hydrogen, is subcarburetted hydrogen.

1. Carburetted hydrogen, the percarburetted of the French chemists, is, according to Mr. Brande, the only definite compound of these two elements. To prepare it, we mix, in a glass retort, 1 part of alkohol and 4 of sulphuric acid, and expose the retort to a moderate heat. The gas is usually received over water; though De Saussure states, that this liquid absorbs more than De Saussur's states, that this liquid absorbs more than 1-7th of its volume of the gas. It is destructive of animal life. Its specific gravity is 0.978, according to Saussure. 100 cubic inches weigh 26:20 gr. It possesses all the mechanical properties of air. It is invisible, and voul-of taste and smell, when it has been washed from a little athereous vapour. The effect of heat on this gas is curious. When passed through a portelain tube, heated to a cherry-red, it lets fall a portion of charcoal, and nearly doubles its volume. At a higher temperature it deposites more charcoal, and augments in bulk; till finally, at the greatest heat to which we can expose it, it lets fall atmost the whole of its carbon, and assumes a volume-31 times greater than its carbon, and assumes a volume 3 times greater than it had at first. These remarkable results, observed with great care, have induced the illustrious Ferthol let to conclude, with much plausibility, that hydrogen and carbon combine in many successive proportions.

The transmission of a series of electric sparks through this gas, produces a similar effect with that of simple

Carburetted hydrogen burns with a splendid white When mixed with three times its bulk of oxy gen, and kindled by a taper or the electric spark, it ex-

plodes with great violence.

When this gas is mixed with its own bulk of chlorine, the gaseous mixture is condensed over water into rine, the gaseous mixture is condensed over water into a peculiar oily looking compound. Hence this carbu retted hydrogen was called by its discoverers, the as sociated Dutch chemists, olejiant gas. Robiquet and Colin formed this liquid in considerable quantities, by making two currents of its constituent gases meet in a glass globe. The oleilant gas should be in rather larger making two currents of us constituent gases meet in a glass globe. The ofeitant gas should be in a ather larger quantity than the chlorine, otherwise the liquid becomes of a green colour, and acquires acid properties. When it is washed with water, and distilled off dry muriate of lime, it may be regarded as pure. It is then a limpid colourless essence of a pleasant Havour, and a sharp, sweet, and not disagreeable taste. At 450 its specific gravity is 2.2201. Dr. Thompson calls this fluid chloric ather, and it may with propriety, Mr. Brande thinks, be termed hydro-chloride of carbon. Oleflant gas is elegantly analyzed by heating sulpiur in it over mercury. One cubic inch of it, with 2 grains of sulphur, yields 2 cubic inches of sulphuretted hydrogen, and charcoal is deposited. Now we know that the latter gas contains just itsown volume of hydrogen. 2. Subcarburetted hydrogen. This gas is supposed to be procurted in a state of definite composition, from the much or stagmant pools or ditches. We have only to fill a wide mouthed gobbet with water, and inverting it in the ditch water, stir the hottom with a stick.

Gas rises into the goblet.

Cas tisses mornic gonet.

The line damp of mines is a similar gas to that of ditches. There is in both cases an admixture of carbonic acid, which line or potassas-water will remove. A proportion of air is also present, the quantity of which can be ascertained by analysis. By igniting acctate of potassa in a gun-barrel, an analogous species of tracks abstract.

Subcarburetted hydrogen is destitute of colour, taste, and smell. It burns with a yellow flame, like that of

a candle.

As the gas of ditches and the choke-damp of mines is evidently derived from the action of water on de-caying vegetable or carbonaceous matter, we can uncaying vegetable or carbonaceous matter, we can understand that a similar product will be obtained by passing water over ignited charcoal, or by heating moistened charcoal or vegetable matter in retorts. The gases are here, however, a somewhat complex mixture, as well as what we obtain by igniting pit coal and wood in iron retorts. The combustion of subear-buretted hydrogen with common air takes place only when their variation is certain proportion. If feerwhen they are mixed in certain proportions. If from 6 to 12 parts of air be mixed with one of carburetted hydrogen, we have explosive mixtures. Proportions hydrogen, we have explosive mixtures. Proportions beyond these limits will not explode. In like manner, from 1 to 2½ of oxygen must be mixed with one of the combustible gas, otherwise we have no explosion. Sir II. Davy says, that this gas has a disagreeable empyreumatic smell, and that water absorbs 1-30th of its volume of it."—Ure.

CARCARUS. (From καρκαιρω, to resound.) Carcaros. A fever in which the patient has a continual horror and trembling, with an unceasing sounding in his carrier.

his ears.

Instears.

Ch'RCAX. (From καρα, a head.) A species of poppy, with a very large head.

Ch'ACAX. A remedy, according to Paracelsus, for restraining the motions of body, the extravagant and libiding conversation in some disorders; as in Chorea Sancti Viti, &c.

CARCING MA. (Kapxyatas. The openings at the top of a ship's must through which the rope passes.) A name of some bandages noticed by Galen, and described by Oribasius.

CARCINO MA. (Carcinoma, atis. n. From kap-types, a cancer.) Bee Cancer.

(ARCINIS) 16.

KEYOS, a cancer.) See Cancer.
(CARCINUS. (Kapkivos, a cancer.) Carcinos. See

CARDAMA'NTICA. (From καρδαμον, the nasturtium) A species of sciatica cresses.

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CALDAMELE'UM. A medicine of no note, mentioned [

by Gilen. CARDAMI'NE. (Cardamine es. f.; from καρδια, theheart; because it acts as a cordial and strengthener, or from its having the taste of cardamum, that is, nasturtium, or cress.) Cuckoo-flower. 1. The name of a genus of plants in the Linmean system. Class, Tetradynamia; Order, Siliquosa.

2. The pharmacopæial name of the cuckoo-flower.

See Cardamine pratensis.

The systematic name of CARDAMINE PRATENSIS. The systematic name of the common ladies' smock, or cuckoo-flower, called the common ladies' smock, or cuckoot-nower, came cardomine in the pharmacoperias. Cardomantica; Nasturtium; aquaticum; Cali flos; Iheris sophia; Cardomine—Fulus punatis, folialis, radications subvotundis, caudinis lanceolates of Linneus. The flower has a place in the materia medica, upon the authority of Sir George Baker, who has published two cases, two of Sir George Baker, who has published two cases, two of Chorea Sancti Viti, one of spasmondr asthma, one of heminegia, and a case of spasmodic affections of the lower limbs, wherein the flores cardamines were sup-posed to have been successfully used. A variety of virtues have been given to this plant, but it does not

virtues have been given to this plant, see the deserver the attention of practitioners.

CARDAMO'MUM. (From καρδαρον and αμωμον: because it partakes of the nature, and is like both the cardanum and amonum.) The cardanom. See

cardamum and amomum.) The

CARDAMOMUM MAJUS. See Amomum granum pura-

CARDAMONUM MEDIUM. The seeds correspond, in every respect, with the less, except in being twice as long, but no thicker than the Cardamonum minus.

See Eletturia cardamo CARDAMOMUM MINUS.

CARDAMOMUM PIPERATUM. See Amomum granum paradisi. See Illicium stella-

CARDAMOMUM SIBERIENSE.

Carroan See Cordial.

Carroan See Cordial.

Carroan See Cordial.

Carroin See Cordial.

CARDIACA CONFECTIO. See Confectio aromatica.
CARDIACA HERBA. So named from the supposed relief it gives in faintings and disorders of the stomach. net II gives in faintings and disorders of the stomach. The pharmacoperial name of the plant called Motherwort. See Leonurus cardiaca.

CARDIACA PASSIO. The cardiac passion. Ancient writers frequently mention a disorder under this name, which consists of that oppression and distress which often accompanies fainting.

often accompanies fainting.

Cardiacus Morbus. A name by which the ancients called the typus fever.

CARDIA'LGIA. (From καρότα, the cardia, and αλγος, pairu.) Pairu at the stomach. The heartburn. Dr. Cullen ranks it as a symptom of dyspepsia. Heartburn is an uneasy sensation in the stomach, with anxiety, a heat more or less violent, and sometimes attended with oppression, faintness, an inclination to womit, or a plentiful discharge of clear lymph, like saliva. This pain may arise from various and different causes; such as βatus; from sharp humanes, either saliva. This pain may arise from various and different causes; such as flatus; from sharp humours, either acid, blicus, or rancid; from worms gnawing and vellicating the coats of the stomach; from acrd and purgent food, such as spices, aromaties, &c.; as also from rheumatic and gouty humours, or surfects; from too free a use of tea, or watery fluids relaxing the stomach, &c.; fron the natural mucus being abraded, particularly in the upper orifice of the stomach.

Lety in the upper offine of the sonner.

CARDILICIA SPUTATORIA. See Pyrosis.

CARDILE DECH. (From saphen, the heart, and meleck, Heb. a governor.) A fictitious term in Dolans's Encyclopedia, by which he would express a particular active principle in the heart, appointed to what we call the vital functions.

CARDINO'NA. Pain at the stomach.

Cardinal flowers. See Lobelia. (From cardo, a hinge.) An ar-Cardiname ntum. (From cardo, a hinge.) An articulation like a hinge.
CARDIO GMUS. (From καρδιωσσω, to have a pain

in the stomach.) 1. A distressing pain at the pracordia or stomach.

2. An aneurlsm in or near the heart, which occasions pain in the pracordia.

3. A variety of the Exangia ancurisma of Good's

nosological arrangement.
CARDIO NCHUS. (From καρδία, the heart, and ογκος, a tumour.) An ancurism in the heart, or in the

aorta near the heart. Carono-no Tes. τιτρωσκω, to wound.) (From καρδια, the heart, and One who hath a wound in his

CARDITIS. (From sapéra, the heart.) Empres-ma carditis of Good. Inflammation of the heart. It is a genus of disease arranged by Cullen in the class Pureries, and order Phlegmasse. It is known by py-Pyrexia, and order Phlegmasia. It is known by pyrexia, pain in the region of the heart, great anxiety, diffi-

rexia, pain in the region of the heart, great anxiety, difficulty of breathing, cough, irregular pulse, palpitation, and fainting, and the other symptoms of inflammation.

The treatment of carditis is, in a great measure, similar to that of pneumonia. It is necessary to take blood freely, as well generally as locally, and apply a blister near the part. Purging may be carried to a greater extent than in pneumonia; and the use of digitalis is more important, to lessen the irritability of the heart. It is equally desirable to promote diaphoresis, but expect valuon is not so much to be looked for, unless indeed, as very often happens, the inflammation should have extended, in some degree, to the lungs.

See organic relics.
A hinge. 1. The articulation called CA'RDO. Ginglymus.
2. The second vertebra of the neck.

Wine medicated with herbs .- Para-CARDO'NIUM.

CARDOPA'TIUM. The low carline thistle. Most pro-bably the Carlina acautis of Linneus, said to be dia-

phoretic.
CARDUUS. (A carere, quasi aptus carenda lana, being fit to tense woot; or from κειρω, to abratle; so named from its roughness, which abrades and tears whatever it meets with.) The thistle or teasel. The name of a genus of plants in the Limitean system. Class, Syngenesia; Order, Polygamia σημαίες.
CARDUES ACAPTIUS. The bear's breech.
CARDUES ALTILIS. The artichoke.
CARDUES ALTILIS. The way-thistle. See Serratula συργείες.

Luta arvensis.

CARDUUS BENEDICTUS. See Centaurea.

CARDUUS HÆMORRHOIDALIS. The common creeping way-thistle. Serratula arvensis of Linnæus.

CARDUUS LACTEUS. See Carduus marianus

ing way-thistle. Servalula arvensis of Linneus.
Carduus Lactbus. Sec Carduus marianus.
Carduus Maria. See Carduus marianus.
Carduus Maria. See Carduus marianus.
Carduus maria. Common milk-thistle, or
Lady's thistle. Carduus: foliis amplexicaulibus, hastato-pinnalijäis, spinosis; caliculatis, duplicato-spinosis, odiçbus aphyllis; spunis
caliculatis, duplicato-spinosis, of Linneus. The seeds
of this plant and the herb, have been epunduwed medi. caticulatis, duplicato-spinosis, of Linneus. The seeds of fins plant, and the herb, have been employed medicinally. The former contain a bitter oil, and are recommended as relaxants. The juice of the latter is said to be salutary in dropsies, in the dose of four ounces; and, according to Miller, to be efficacious against pungent pains. The leaves when young surpass, when boiled, the finest cabbage, and in that state are duretic.

CARDUUS SATIVUS. The artichoke.
CARDUUS SOLSTITIALIS. The Calcitrapa officinalis of Linnaus.

CARDUUS TOMENTOSUS. The woolly thistle. See

One por dium acanthium. CAREBARIA. (From  $\kappa a \rho \eta$ , the head, and  $\beta a \rho o \varepsilon$ , weight.) A paintul and uneasy heaviness of the head. CARENUM. (From  $\kappa a \rho \eta$ , the head.) Galen uses this word for the head.

CAREUM VINUM. Strong wine.

CAREUM. (From Caria, the country whence they ere brought.) The caraway.

CAREUM. (From curve, were brought.) The earaway.

CA'REX. (Carez, icis, fem. from careo, not quia veribus careat, but because, from its roughness, it is fit ad careadam, to card, tease, or pull.) Sedge. Tho name of a genus of plants in the Linnean system Class, Monacia; Order, Triandria.

CAREA ALEMANIA. The systematic name of the official sarsupurable germanica, which grows plentfully on the sea coast. The rot has been found serviceable on the sea coast. The rot has been found serviceable.

in some mucal affections of the trachea, in rheumatic pains, and gouty affections. These roots, and those of

the carex hirta, are mixed with the true sarsaparilla, its vitality, it is said to be carious, dead, or rotten:

which they much resemble.

CA'RICA. (From Caria, the place where they were cultivated.) The fig. See Ficus carica.

CARICA PATAYA. Papaw-tree. This is a native of both Indies, and the Guinea coast of Africa. When the roundish fruit are nearly ripe, the inhalitants of India boil and eat them with their meat, as we do tur-They have somewhat the flavour of a pompion. nips. They have somewhat the flavour of a pompion-Previous to boiling, they soak them for some time in sait and water, to extract the corrosive juice, unless the meat they are to be boiled with should be very salt and old, and then this juice being in them, will make them as tender as a chicken. But they mostly pickle the long fruit, and thus they make no bad succedaneum for mango. The buds of the female flowers are gathered, and made into a sweetmeat; and the inhabitants are such good husbands of the produce of this tree, that they boil the shells of the ripe fruit into a repast, and the insides are eaten with sugar in the manner of melons. Every part of the papaw-tree, except the ripe the insides are eaten with sugar in the manner of me-lons. Every part of the papaw-tree, except the ripe fruit, affords a milky juice, which is used, in the Isle of France, as an effectual remedy for the tape-worm. In Europe, however, whither it has been sent in the concrete state, it has not answered, perhaps from some change it had undergone, or not having been given in

a sufficient dos A very remarkable circumstance regarding the papaw-tree, is the extraction from its juice of a matter exactly resembling the flesh or fibre of animals, and

paw-tree, is the extraction from its juice of a matter exactly resembling the flesh or fibre of animals, and hence called vegetable fibrin.

Canecum. (From Caricus, its inventor.) Carycum. An ointment for cleansing ulcers, composed of hellebore, lead, and cantharides.

CA'RIES. (From carah, Chald.) Gangrena Caries of Good. Rottenness, mortification of the bones (Cooper derives caries from κετρο, to abrade. "It is a disease of the bones, supposed to be very analogous to ulceration of the soft parts; and this comparison is one of great antiquity, having been made by Galen. However, by the generality of the ancients, caries was not discriminated from necrosis.

"It was from the surgeons of the eighteenth century that more correct opinions were derived respecting caries. Until this period, writers had done little more than mentioning the complaint, and the methods of treating it. Some new light was thrown upon the subject by J. L. Petit, in his remarks upon exostosis and caries. But, as he only spoke of the disorder as one of the terminations of exostosis, he has not entered far into the consideration of it. The best observations far into the consideration of it. The best observations on caries were first made by Dr. A. Monro, primus. This memoir contains the earliest correct ideas of dry The best observations caries, or necrosis, which is rightly compared to nor-tification of the soft parts, and named gangrenous

caries.

"The bones, like other parts of the body, are composed of arteries, veins, absorbent vessels, nerves, and a cellular texture; they are endued with vitality; they are the composed of a composed of the composed of t a cellular texture: they are embed with value; and nourished, they grow, waste, are repaired, and undergo various mutations, according to the age of the individual; and they are subject to diseases analogous to those of the soft parts. To the phosphate of hime, they waste a less distributed in their texture, they which is more or less distributed in their texture, they owe all their solidity; and, perhaps, it is to the same earthy substance that the difference in their vital proearthy substance that the difference in their vital properties, and in their diseases, from those of the rest of the body, is to be referred. In fact, this particular organization, and inferior vitality of the bones, are generally supposed to account for the small number, peculiar character, and general slow progress of their diseases."—Cooper's Surg. Dict. A.; Cari'M. The cassada bread.

CARI'NA. The keel of a ship. 1. A name formerly applied to the back bone.

2. In botapy, the keel, or that part of the petuls.

merly applied to the back bone.

2. In botany, the keel, or that part of the petals which compose a papilionaceous flower, consisting of two, united or separate, which embrace the internal or genital organs. See Corolla.

CARINATUS. Keel-shaped; applied to leaves and petals when the back is longitudinally prominent like the keel of a boat; as in the leaf of the Allium carinatum, and the petals of the Allium ampellprasum Carum carui.

hence carious tooth, &c

its vitality, it is said to be carious, dead, or rotten: hence carious tooth, &c.

CA'RIUM TERRA. Lime.

CARNLI'MA. Erron Carolus, Charles the Great, or Charlemagne; because it was believed that an angel showed it to him, and that, by the use of it, his army was preserved from the plague.) Carline thistle. The name of a genus of plants in the Linnean system. Class, Syngenesic; Order, Polygamia agualis. The officinal name of two kinds of plants.

CARLINA ACAULIS. The systematic name of the chamaleon album. Carlina; Cardopatium. Carline thistle. Star thistle. Carline—caule uniforo, fore breviore, of Linneaus. The root of this plant is bitter, and said to possess diaphorette and anthelimitic virtues. It is also extolled by foreign physicians in the cure of acute, malignant, and caronic disorders, particularly gravel and jaundice.

CARLINA GUMMIPERA. Carduus pinea; Ixine. Pine thistle. This plant is the Atractytis gumnafera of Linneaus. The root, when wounded, yields a milky, viscous juice, which concretes into tenaceous masses, at first whitish, resembling wax, when much handled growing black; it is said to be chewed with the same views as mastich.

views as mastich.

See Carlina acaulis.

Ca'rine thistic. See Carlina acautis.

Ca'rine Sancto Radjix. St. Charles's root, so called by the Spaniards, on account of its great virtues. It is found in Mechoachan, a province in America. Its bark hath an aromatic flavour, with a bitter acrid taste. The root itself consists of slender fibres. The bark is sudorific, and strengthens the gums and stomach.

CA'RMEN. (Carmen, inis. neut. A verse; because charms usually consisted of a verse.) A charm; an amulet.

CARMES. (The Carmelite friars, Fr.) Carmelite water; so named from its inventors; composed of baum, lemon-peel, &c.

baum, lemon-peel, &c.

CARMIN'NTIA. See Carminative.

CARMIN'NTIA. See Carminatives; from carmen, a verse, or charm; because practitioners, in ancient times, ascribed their operation to a charm or enchantment.) That which allaws pain and dispels flatulencies of the prima vize. The principal carminatives are the semina cardamomi, anisi et carui; olea essentialia carui, anisi et juniperi; confectio aromatica; pulvis aromaticus; tinctura cardamomi; tinctura cinnamomi composita; zingiber; stimulants; tonics; bitters; and astringents.

CARMINE. A red pigment prepared from cochi-

bitters; and astringents.

CARMINE. A red pigment prepared from cochi-

CARMINIUM. The name given by the French chemists to the colouring matter of cochineal. Coccus cacti.

Coccus cacti.

CARNABA DIUM. Caraway-seed.
CA'RNEA COLUMNA. A fleshy pillar or column. The name of some fleshy fasciculi in the ventricles of the heart. See Heart.
CARNELIAN. A subspecies of calcedony.
CARNICULA. (Diminutive of caro, carnis, flesh.) A small fleshy substance; applied to the substance which surrounds the gums.
CARNIFO'RMIS. (From caro, flesh, and forma, likeness.) Having the appearance of flesh. It is commonly applied to an abscess, where the flesh surrounding the orifice is hardened, and of a firm consistence.
CARNOSUS. Fleshy; applied to loaves, pods, &c. of a thick pulpy substance; as in the leaves of all those plants called succulent, especially codum crassula, &c.

cA'RO. (Caro, carnis. fem.) 1. Flesh. The red part or belly of a muscle.

2. The pulp of fruit.

CAROMEL.

See Carlina.

The smell exhaled from sugar at the calcining heat.

CARO'FI. The Amonum verum.

CARO'RA. A chemical vessel that resembles a

urinal.

petals when the back is longitudinally prominent like the keel of a boat; as in the leaf of the Allium carrinatum, and the petals of the Allium ampethrasum CARNOTTA. See Dancus.

CAROTTA. See Dancus.

CAROTTA. See Dancus.

CAROTTIN. (From καροω, to cause to sleep; because, if ited with a ligature, the animal becomes communication.)

CARIOUS. When a part of a bone is deprived of N

CAROTID ARTERY. Arteria carotidea. The carotide are two considerable arteries that proceed, one on The carothis are two considerable attention to the head, to sup-each side of the cervical vertebre, to the head, to sup-ply it with blood. The right carotid does not arise immediately from the arch of the aorta, but is given off from the arteria innominata. The left arises from off from the arteria innominata. The left arises from the arch of the aorta. Each carotid is divided into external and internal, or that portion without and that within the cranium. The external gives off eight branches, to the neck and face, viz. anteriorly, the superior thyroideal, the sublingual, the inferior maxillary, the external maxillary; posteriorly, the internal maxillary, the occipital, the external auditory, and the temporal. The internal carotid or cerebral artery, gives off four branches within the external carety. gives off four branches within the cavity of the cranium; the anterior cerebral, the posterior, the central artery of the optic nerve, and the internal orbital.

CARO'UM. The caraway-seed.

CA'RPASUS. (So named mapa To карот moundat: because it makes the person who eats it appear as if

he was asleep.) An herb, the juice of which was for-merly called opocarpason, opocarpathon, or opocalpa-son; according to Galen, it resembles myrth; but is esteemed highly poisonous.

CARPA'THICUM BALSAMUM. See Pinus Cembra

CARPENTA'RIA. (From carpentarius, a carpenter; and so named from its virtues in healing cuts and wounds made by a tool.) A vulnetary herb; not properly known what it is, but believed to be the common milfoil or yarrow, the Achillas millifolium of Linneus. CARPHA LEUS. (From καρφω, to exsiccate.) Hippocrates uses this word to mean dry, opposed to

CARPHOLO'GIA. (From καρφος, the nap of clothes, and λεγω, to pluck.) Carpologia. A delirious picking of the bed-clothes, a symptom of great danger in diseases. See Floccilatio. CARPHOLO'GIA.

danger in diseases. See Floccilatio.

CARPHUS. (From καρφη, a straw.) 1. In Hipporates it signifies a mote, or any small substance.

2. A pustule of the smallest kind.

3. The herb fenugreek.

CARPIA. (From carpo, to pluck, as lint is made from linen cloth.) Lint.

CARPISMUS. The wrist.

CARPOBA'LSAMUM. (From καρπος, fruit, and βαλναμον, balsam.) See Amyris gilcadensis.

CARPOTICA. (Carpoticus; from καρπωσις, fruitio, from καρπωσις, fruitio, from καρπως, fructus.) The name of an order of diseases in the class Genetica of Good's Nosology; diseases afflicting the impregnation. It embraces four diseases afflicting the impregnation. It embraces four genera. 1. Paracyesis, morbid pregnancy. 2. Para-dyniu, morbid labour. 3. Eccyesis, extra uterine fo-tation. 4. Pseudocyesis, sputious pregnancy. CA'RPUS. (Kapmos, the wrist.) The wrist, or carpus. It is situated between the forcarm and hand.

CARROT. See Daucus carota.

CARKOT. See Dances carota.

Carrot, candy. See Athamanta Cretensis.

Carrot poultice. See Cataplasma dauci.

CARTHAMUS. (From kadagon, to purge.) 1. The

name of a genus of plants in the Linnean system.

Class, Syngenesic; Order, Polygamia aqualis.

2. The pharmacopoilal name of the saffron flower.

See Carthamus tinctorius.

CARTHAMUS TINCTORIUS. The systematic name of the saffron flower, or bastard saffron called also Cnicus; Crocus saracenicus; Carthamum officinarum; Cardinus satious. Carthanns—folis contain apecharum; Cardinus satious. Carthanns—folis contain, integrats, serrato-aculeatis of Linnwus. The seeds, freed from their shells, have been celebrated as a gentle cathartic, in the dose of one or two drachms. They are also in the dose of one or two drachins: They are also supposed to be diuretic and expectorant; particularly useful in humoral asthma, and similar complaints. The carthamus lanatus is considered in France as a febrifuge and sudorific. The dried flowers are frequently mixed with saffron, to adulterate it. The plant is cultivated in many places on account of its flowers, which are used as a dye.

"In some of the deep reddish, yellow or orange-

"In some of the deep reddish, yellow, or orange-coloured flowers, the yellow matter seems to be of the same kind with that of the pure yellow flowers; but the red to be of a different kind from the pure red ones. Watery menstrus take up only the yellow, and leave the red, which may afterward be extracted by alkohol, or by a weak solution of alkali. Such par-ticularly are the saffence opening flowers of earth annuaticularly are the saffron-coloured flowers of carthamus.

These, after the yellow matter has been extracted by water, are said to give a tincture to ley; from which, on standing at rest for some time, a deep red fecula on standing at less than the countrid whence it is commonly brought to us, Spanish red and China lake. This pigment impregnates alkohol with a beautiful red tincture; but communicates no colour

Rouge is prepared from carthamus. For this purpose the red colour is extracted by a solution of the subcarbonate of soda, and precipitated by lemon juice previously depurated by standing. This precipitate is dried on earthen plates, mixed with talc, or French chalk, reduced to a powder by means of the leaves of shaye-grass, triturated with it, till them. shave-grass, triturated with it till they are both very fine, and then sifted. The fineness of the powder and proportion of the precipitate constitute the difference between the finer and cheaper rouge. It is likewise spread very thin on saucers, and sold in this state for

dving.

Carthamus is used for dying silk of a poppy, cherry, rose, or bright orange-red. After the yellow matter is extracted as above, and the cakes opened, it is put into a deal trough, and sprinkled at different times with pearl ashes, or rather soda, well powdered and sifted, in the proportion of six pounds to a hundred, mixing the alkali well as it is put in. The alkali should be saturated with carbonic acid. The carthance is the put of the proposed of the carthance is the put of the carthance is the put of the carthance in the put of the carthance is the put of the carthance in the put of the carthance is the put of the carthance in the put of the carthance is the put of should be saturated with carbonic actu. The carbia-nus is then put on a cloth in a trough with a grated bottom, placed on a larger trough, and cold water poured on, till the large trough is filled. And this is repeated, with the addition of a little more alkali toward the end, till the carthamus is exhausted and become yellow. end, till the carthamus is exhausted and become yellow. Lemon juice is then poured into the bath, till it is turned of a fine cherry colour, and after it is well stirred, the silk is immersed in it. The silk is wrung, drained, and passed through fresh baths, washing and drying after every operation, till it is of a proper colour; when it is brightened in not water, and lemon juice. For a poppy or fine colour a slight annotto ground is first given; but the silk should not be alumed. For a pale carnation a little soap should be put into the bath. All these baths must be used as soon as

the barn. All these barns must be used as soon as they are made; and cold, because heat destroys the colour of the red feculae."

CARTHEUSER, John Frederick, a professor of medicine at Franciert, on the Oder, acquired considerable reputation about the middle of the last century. by several luminous works on botany and pharmacy; especially his "Rudimenta Materiæ Medicæ Rationa-lis," and "De Genericis quibusdam Plantarum Prin-He had two sons, Frederick Augustus and William, also of the medical profession, and authors

William, also of the Incurcal profession, and authors of some less important works.

Carthusia'nus. (From the monks of that order, who first invented it.) A name of the precipitated sulphur of antimony.

CARTILAGE. See Cartilago.

CARTILAGINEUS. Cartilago. 1. Applied,

in anatomy, to parts which naturally, or from disease, have a cartilaginous consistence.

have a cartilaginous consistence.

2. In botany, to leaves which have a hard or horny
2. In botany, to leaves which have a hard or horny
2. In botany, to leaves which have a hard or horny
2. CARTILA'GO. (Cartilago, inis. form. Quasi
carnilago; from caro, carnis, flesh.) A white elastic,
glistening substance, growing to bones, and commonly
called griatle. Cartilages are divided, by anatomists,
into obducent, which cover the moveable articulations
of bones; inter-articular, which are situated between
the articulations, and uniting cartilages, which unite
one bone with another. Their use is to facilitate the
motions of houses, or to connect them together.

one bone with another. Their use is to facilitate the motions of bones, or to connect them together. The chemical analysis of cartilage affords one-third the weight of the bones, when the calcareous saits are removed by digestion in dilute muriatic acid. It re-sembles coagulated albumen. Nitric acid converts it into gelatin. With alkalies it forms an animal soap. Carrilage is the primitive paste, into which the calca-reous salts are deposited in the young animal. In the disease rickets, the earthy matter is withdrawn by morbid absorption, and the bones return into the state nearly of flexible cartilage. Hence arise the distortions characteristic of this disease.

CARTILAGO ANNULARIS. See Cartilago cricoidea.

CARTILAGO ARTIFANOIDEA. See Larynz.

CARTILAGO CRICOIDEA. The cricoid cartilage belongs to the larynx, and is situated between the thyroid

and arytenoid cartilages and the trachea; it constitutes, as it were, the basis of the many annular cartilages of the trachea.

CARTILAGO ENSIFORMIS. Cartilago xiphoidea. En-

CARTILAGO ENSIFORMIS. Cartilage sixphoidea. Ensiform cartilage. A cartilage shaped somewhat like
a sword or dagger, attached to the lowermost part of
the sternum, just at the pit of the stomach.

CARTILAGO SCULIFORMIS. See Thyroid cartilage.
CARTILAGO STHOUDEA. See Cartilage ensiformis.
CARUI. (Caruia. Arabian.) The caraway. See

Oarun

OA'BUM. (Kapos; so named from Caria, a province of Asia.) The Caraway. 1. The name of a genus of plants in the Linnean system. Class, Pentandria; Order, Monogymia.

2. The pharmacoposial name of the caraway plant.

See Carum carui.

C. RUM CARUK. The systematic name for the plant, CARUM CARUI. The systematic name for the plant, the seeds of which are called caraways. It is also called Carvi; Cuminum pratense; Carus; Caruon. The seeds are well known to have a pleasant spicy Emell, and a warm aromatic taste; and, on this ac-count, are used for various economical purposes. They are esteemed to be carminative, cordial, and stomachic, and recommended in dyspepsia, flatulencies, and other symptoms attending hysterical and hypochondriacal disorders. An essential oil and distilled water are directed to be prepared from them by the London College

CA'RUNCLE. (Caruncula; diminutive of caro, flesh.) Ecphynia caruncula of Good. A little fleshy excrescence; as the carunculæ myrtiformes, carunculæ lachrymales, &c.
CARUNCULA. See Caruncle

CARUNCULA LACREMMALTS. A long conoidal gland, red externally, situated in the internal canthus of each eye, before the union of the eyelids. It appears to be formed of numerous sebaceous glands, from which manysmall hairs grow. The hardened smegma observable in this part of the eye in the morning, is separated by this caruncle.

CARUNCULE MAMILLARES. The extremities of the

tubes in the nipple

CARUNCULE MYRTIFORMES. When the hymen has been lacerated by attrition, there remain in its place two, three, or four caruncles, which have received the name of myrtiform.

CARUNGULE PAPILLARES. The protuberances within the pelvis of the kidney, formed by the papillous substance of the kidney.

CARUN. See Carum.
CARUN. (Kapog; from kapa, the head, as bring the part affected.) Caros; Carosis, 1. Insensibility and sleepiness, as in apoplexy, attended with quiet respiration.

2. A lethargy, or a profound sleep, without fever.
3. Dr. Good gives this name to a genus in his Nosology, embracing those diseases characterized by muscular immobility; mental or corporeal torpitude, or both. It has six species; Carus asphyxia; aestasis;

catalepsia; lethargus; apoplexia; paralysis.
4. The caraway seed.
Ca'rva. The cassia lignea.

CARYDON. See Carydom.
CARYDON. (From kapva, a nut.) Carydon. A sort of fracture, where the bone is broken into small pieces, like the shell of a cracked nut.

pieces, like the shell of a cracked nut. Carrocosty'num. An electuary; so named from two of its ingredients, the clove and costus. CARYOPHYLLA TA. (From καρισφυλλον, the carryophyllus; so named, because it smells like the carryophyllus; so rained, because it smells like the carryophyllus, or clove July flower.) See Geum ur-

CARYOPHYLLON'DES CORTEX. See Laurus culilawan. CARYOPHY LLCM. (Καουοφυλλον; from καουον, a nut, and φυλλον, a leaf; so named because it was supposed to be the leaf of the Indian nut.) The clove. Eugenia caryophyllata.

CARYOPHYLLUM AROMATICUM. See Eugenia caryo-

phyllata.
CARVOPHILLUM RUBRUM. The clove pink. See

Dianthus caruophyllus. CARYOPHY'LLUS. The clove-tree. of a genus of plants in the Linnaran system. Class, Polyandria; Order, Monogynia. See Eugenia caro-.hyllata.

CARYOPHYLLUS AROMATICUS AMERICANUS. See Myrtus pimenta. Caryophyllus hortensis. See Dianthus caryo-

phullus.

Physicus.

CARYOPHYLLUS VULGARIS. See Geum urbanum.

CARYO'TIS. (From καρυον, a nut.) Caryota. Galen
gives this name to a superior sort of date, of the shape

CASCARI'LLA. CASCARI'LLA. (Diminutive of cascara, the bark, or shell. Spanish.) A name given originally to small specimens of cincliona; but now applied to another bark. See Croton cascardla. Cas'enu. See Jeacus catechu. Cashewenut. See Jeacus catechu. Cashewenut. See Jeacus catechu. Cashewenut. See Jeacus catechu. Cashewenut of the castillar cascicum. The name given by Proust to an acid formed in cheeses, to which he agerilles their flavour. (Diminutive of cascara,

he ascribes their flavour.

CA'SIA. See Cassia.

CASMINA'RIS. See Cassumuniar. Ca'ssa. (Arabian.) The breast.

CASSA'DA. See Jatropha manihot.
CASSA'DA. The fruit of the balsam of Gilead-tree, or Amyrus opobalsamum.

of Amyrus opodalsamum.
CA'SSAYA. See Jutropha manihot.
CASSEBOHM, FREDERIC, a professor of anatomy
at Halle in Saxony, published, in 1730, a treatise on the
difference between the Fetus and Adult, in which he
notices the descent of the testicle from the abdomen; and, four years after, a very minute and exact description of the ear. He likewise explained, in subsequent publications, the manner of dissecting the muscles and the viscera; but an early death prevented his com-pleting his design of elucidating the anatomy of the

whole body in the same way.

CASSERIUS, JULIUS, was born of humble parents at Placentia, in 1545. He became servant to Pabricius at Padna, who, observing his talent, first taught cms at radua, who, observing his falent, first raught him anatomy, then made him his assistant, and finally coadjutor in the professorship in 1669. He pursued the study with uncommon zeal, expending almost all his profits in procuring subjects, and in having draw-ings and prints made of the parts, which he discovered, or traced more accurately than his predecessors. He employed comparative anatomy, not as a substitute for, but only as a clue to that of the human subject. He published an account of the organs of voice and hearing, which he afterward extended to the other senses, explaining also the uses of these parts. Some years after his death, in 1616, the rest of his plates, amounting to 78, with the explanations, were published with the works of Spigelius.

CA'SSIA. (From the Arabic katsia, which is from

katsa, to tear off; so called from the act of stripping the bark from the tree.) The name of a genus of plants in the Linnaran system. Class, Decandria;

Order, Monogynia.

Cussia bark. See Laurus cassia.

CASSIA CARYOPHYLLATA. The clove bark tree

See Myrtus carupphyllata. Cassia fistularis; Alexandrina; Chaiarxambar; Canna; Cassia solu-tiva; Thai Xiem. The purging cassia. This tree, tina; Tlai Xiem. The purging cassia. This tree, Cassia—folis; quinquejquis ovatis acuminatis glabris, petiolis eglandulatis of Linnaus, is a native of both Indies. The pods of the East India cassia are of a less diameter, smoother, and afford a blacker, sweeter, and more grateful pulp, than those which are brought from the West Indies. Those pods which are brought from the West Indies. Those pods which are the heaviest, and in which the seeds do not rattle on being shaken, are commonly the best, and contain the most pulp, which is the part medicinally employed, and to be obtained in the manner described in the pharmacopæias. The best pulp is of a bright shining black colour, and of a sweet taste, with a slight degree of acidity. It has been long used as a laxative medicine, and being gentle in its operation, and seldom dischen dischem the properties of acidity. cine, and being gentle in its operation, and seldom disturbing the bowels, is well adapted to children, and to deficate or pregand women. Adults, however, find it of little effect, unless taken in a very large dose, as an ounce or more; and, therefore, to them this pulp is rarely given, but usually conjoined with some of the brisker purgatives. The officinal preparation of this days is the confection of seasons. drug is the confectio cassiæ; it is also an ingredient in the confectio sennæ.

Cassia fistularis. See Cassia fistula-Cassia Latinorum. See Osyris.

CASSIA LIGNEA. See Laurus cassia.

Cassia Monea. See Limits cassia.
Cassia Monspellinnsium. See Cagris.
Cassia Nigra. See Cassia fistula.
Cassia portica. Poet's rosemary; a plant which
grows in the south of Europe, and is said to be astringent. See Osyris.

Cassia, purging. See Cassia fistula.

Cassia Senna. The systematic name of the plant Cassia, purging. See Cassia fistula.

Gassia, Senna. The systematic name of the plant
which affords senna. Senna alexandrina; Senna
italica. Senna, or Egyptian cassia. Cassia—folis
sejugis suboratis, petudis eglanduatis of Linneus.
The leaves of senna, which are imported here from
Alexandria, for medicinal use, have rather a disagreeable smell, and a subacrid, bitterish, nauseous taste.
They are in common use as a purgative. The formulæ
given of the senna by the colleges, are in infusion, a
compound powder, a tincture, and an electuary. See
Infusum senne. &cc. Infusum sennæ, &c.

Cassia Solutiva. See Cassia fistula.
Cassia Marylandica. See American senna.
Cassiæ aramentum. The pulp of cassia.

CASSIE ARAMENTOM. The pulp of cassia. CASSIE FLORES. What are called cassia flowers in the shops, are the flowers of the true cinnamontree, Laurus cinnamomum of Limneus. They possess aromatic and adstringent virtues, and may be successfully employed in decoctions, &c. in all cases where cinnamon is recommended. See Laurus cinnamo-

CASSIE PULPA. See Cassia fistula.
Cassius's Precipitats. The purple powder, which
forms on a plate of tin immersed in a solution of gold. It is used to paint in enamel.

CA'SSOB. An obsolete term for kali. CASSQLETA. Warm fumigations described by Marcellus.

CASSUMAL Sugar.

CASSUMMU'NIAR. (Of uncertain derivation; perhaps Indian.) Casamunar; Casmina; Risagon; Bengale Indorum. The root, occasionally exhibited under one of these names, is brought from the East Indies. It comes over in irregular slices of various forms, some cut transversely, others longitudinally. The cortical part is marked with circles of a dusky brown colour: the internal part is paler, and unequally yellow. It possesses moderately warm, bitter, and aromatic qualities, and a smell like ginger. It is recommended in hysterical, epilectic, and narnlytic CASSUMMU'NIAR. recommended in hysterical, epilectic, and paralytic

CASTA'NEA. (Kagavov; from Castana, a city in Thessaly, whence they were brought.) See Fagus

CASTANEA EQUINA. The horse-chesnut. See Escu-

UASTANEA EQUINA. THE HOISE-CHESHOL SECTIONAL LINE SIPPORT AND LEATER. WAS born at Grammont, in Flanders, in 1585. His rapid improvement in the Greek language procured him the professorship, at Lovain, in 1609; but he did not graduate in medicine till nine years after. At the same period, he published the lives of eminent physicians in Latin, written in a concise but very entertaining manner, with useful references to the original authorities. He died in 1632.

CASTELLUS, BARTHOLOMEW, an Italian physician, who practised at Messina about the end of the 16th century. He was author of two works, both for a long time extremely popular, a Synopsis of Medi-cine, and "Lexicon Medicum Græco-Latinum," in which great learning and judgment are conspicuous.

CASTLE-LEOD. The name of a place in Rossshire, in Scotland, where there is a sulphureous spring, celebrated for the cure of cutaneous diseases and foul

CASTOR. (Castor: from καςωρ, the beaver, quasi γαςωρ; from γαςωρ, the beliy: because of the largeness of its belly; or deastrande, because he was said to castrate himself in order to escape the hunters.)

1. The name of a genus of animals.

2. The English name of the Castoreum of the pharmacopecias, a peculiar concrete substance obtained from the Castor fiber of Linneus. See Castor fiber. Castor Fiber. The systematic name of the beaver, an amphibious quadruped inhabiting some parts of Prussia, Russia, Germany, &c.; but the greatest number of these animals is met with in Canada. The name of castoreum, or castor, is given to two bags,

name of castoreum, or castor, is given to two bags, situated in the inguinal regions of the beaver, which

contain a very odorous substance, soft, and almost fluid when recently cut from the animal, but which dries, and assumes a resinous consistence in process of time. The best comes from Russia. It is of a grayof time. The nest comes from Russia. It is of a gray-ish yellow, or light brown colour. It consists of a muchage, a bitter extract, a resiu, an essential oil, in which the peculiar smell appears to reside, and a flaky crystaline matter, much resembling the adipocite of bilary calculi. Castor has an aerid, bitter, and nauseous ary catchin. Castor has an acrid, orter, and natisect aste; its smell is strong and aromatic, yet at the same time feetid. It is used medicinally, as a powerful antispasmodic in hysterica and hypochondriacal affections. tions, and in convulsions, in doses of from 10 to 30 grains. It has also been successfully administered in epilepsy and tetanus. It is occasionally adulterated with dried blood, gum-ammoniacum, or galbanum, mixed with a little of the powder of castor, and some

quantity of the fat of the beaver.

Castor oil. See Ricinus.

Castor, Russian. See Castor fiber.

CASTOREUM. See Castor fiber.

CASTORIUM. See Castor fiber.

CASTRATION. (Castratio, onis. f.; from castro, to emasculate, quia castrando vis libidinis extinguitur.) 1. A chirurgical operation, by which a testicle

2. Botanists apply this term to the removal of the anthera of a flower, and to a plant naturally wanting

this organ

CASTRE'NSIS. (From castra, a camp.) Belonging to a camp: applied to those diseases with which soldiers, encamped in marshy places, are afflicted. CATA'BASIS. (From καπαβαινω, to descend.)

CATA BASIS. (From καπασαίνο, το teacone) An operation downwards.

CATABI'BASIS. (From καταδιάσζω, to cause to descend.) An expulsion of the humours downwards.

CATABLACEU'SIS. (From καταδλακενω, to be useless.) Hippocrates uses this word to signify carelessness and negligence in the attendance on and administration to the sick.

CATABLE'MA. (From καταβαλλω, to throw round.) The outermost fillet, which secures the rest of the

bandages. CATABRONCHE'SIS. (From  $\kappa a/a$ , and  $\beta \rho \rho \gamma \chi o \rho s$ , the throat; or  $\kappa a/a \beta \rho \rho \gamma \chi i \zeta \omega$ , to swallow.) The act of swallowing. CATACAU'MA. (From καζακαιω, to burn.) A

burn or scald. CATACAU'SIS. (From κα7ακαιω, to burn.)' 1. The

act of combustion, or burning.

2. The name of a genus of diseases in Dr. Good's

Nosology: general combustibility of the body. It has

only one species, Catacausis ebriosa.

CATACECLI MENUS. (From καζακλινομαι, to lie down.) Keeping the bed, from the violence of a

CATACECRA'MENUS. (From κα/ακεραννομι, to reduce to small particles.) Broken into small pieces: applied to fractures.

CATACERA'STICA. (From κατακεραννυμι, to mix gether.) Medicines which obtund the acrimony of CATACHRISTON. (From κα/αχριω, to anoint.)

An ointment.

CATA'CLASIS. (From κα/ακλαω, to break, or distort.) Distorted eyelids.

(Norm κα/α, hencath, and κλεις, CA'TACLEIS. (From  $\kappa a/a$ , beneath, and  $\kappa \lambda \epsilon \iota \epsilon$ , the clavicle.) Catacleis. The subclavicle, or first rib, which is placed immediately under the clavicle.

CATACLINES. (From καζακλυω, to lie down.) One who, by disease, is fixed to his bed. CATA'CLISIS. (From καζακλυω, to lie down.) A lying down. Also incurvation.

CATACLY'SMA. (From κα/ακλυζω, to wash.) A

clyster. CATACLY'SMUS. (From καζακλυζω, to wash.)

2. A dashing of water upon any part.

CATACRE MNOS. (From κα la, and κρημνος, a precipice.) Hippocrates means, by this word, a swoin and inflamed throat, from the exuberance of the parts.

CATACRU'SIS. (From κα laκρουω, to drive back.)

A revulsion of humours.

CATADOULE'SIS. (From καγαδουλοω, to enslave.)
The subduing of passions, as in a phrensy, or fever.
CATÆGIZE'SIS. (From καγαιγιζω, to repel.) Α

CATAMA'NOE. Succory.

revulsion or rushing back of humours, or wind in the

Irrigation by a plentiful affusion of liquor on some CATAGON.

CATA'GMA. (From  $\kappa a/a$ , and  $ay\omega$ , to break.) A fracture. Galen says a solution of the bone is called catagma, and eleos is a solution of the continuity of the flesh: that when it happens to a cartilage, it has no name, though Hippocrates calls it catagma. CATAGMA'TICA. (From  $\kappa a/a/\mu a$ , a fracture.) Catagmatics. Remedies which promote the formation of

Catago'en. (From καζαγομαι, to abide.) The seat or region of a disease or part. Catagotic'sis. (From καζαγνισω, to debilitate.) An imbedility and enervation of the strength and

limbs.

CATALE PSIS. (From κα ] αλαμβανω, to seize, to hold.) Catoche; Catochus; Congelatio; Detentio; Encatalepsis; by Hippocrates, Aphonia; by Antigenes, Anaudia; by Cellus Aurelianus, Apprehensio, Oppressio; Comprehensio; Carus catalepsia of Good; Apoplexia cataleptica of Cullen. Catalepsys. A sudden suppression of motion and sensation, the body remaining in the same posture that it was in when seized.

ing in the same posture that it was in when seized.

Dr. Cullen says, he has never seen the catalepsy except when counterfeited; and is of opinion, that many of those cases related by other authors, have also been of those cases related by other authors, have also been counterfeited. It is said to come on suddenly, being only preceded by some languor of body and mind, and to return by paroxysms. The patients are said to be for some ninutes sometimes (though rarely) for some hours, deprived of their senses, and all power of voluntary motion; but constantly retaining the position in which they were first selzed, whether lying or sitting; and if the limbs be put into any other posture during the fit, they will keep the posture in which they are placed. When they recover from the paroxysm, they remember nothing of what passed during the time of it, but are like persons awakened out of a sleep.

of it, but are like persons awakened out of a sleep.  $C_{ATALO}'$ TiCA. (From  $\kappa a/a\lambda o a\omega$ , to grind down.) Medicines to soften and make smooth the rough edges

and crust of cicatrices.

and crust of cicatrices.

CATA'LYSIS. (Καταλυσις: from καταλυω, to dissolve or destroy.) It signifies a paley, or such a resolution as happens before the death of the patient; also that dissolution which constitutes death.

CATAMARA'SMUS. (From κα')αμαρανω, to grow thin.) 1. An emaciation of the body.

2. The resolution of tumours:

CATAMASSE'SIS. (From κα')αμασσυμαι, to manducate.) The grinding of the teeth, and bitting of the tongue; common in epilepsy.

CATAME'NIA. (Catamenia, σrum, neut. pleur.; from κα')α, according to, and μην, the month.) Menses. The monthly discharge from the uterus of females, between the ages of 14 and 45. Many have questioned whether this discharge arose from a mere rupture of vessels, or whether it was owing to a secretory action. There can be little doubt of the truth of the latter. The secretory organ is composed of the arterial vestical secretory organ is composed of the arterial vestigation. The secretory organ is composed of the arterial ves-sels situated in the fundus of the uterus. The dissection of women, who have died during the time of their menstruating, proves this. Sometimes, though very rarely, women, during pregnancy, menstruate; and when this happens, the discharge takes place from the arterial vessels of the vagina. During pregnancy and lactation, when the person is in good health, the catamenia, for the most part, cease to flow. The quantity a female menstruates at each time is very various; depending on climate, and a variety of other circumstances. It is commonly in England from five to six ounces; it rarely exceeds eight. Its duration is from these theorems of the property of the programment of the property of the programment of the programmen tion of women, who have died during the time of their ounces; it rarely exceeds eight. Its curation is from three to four, and sometimes, though rarely, five days With respect to the nature of the discharge, it differs very much from pure blood; it never coagulates; but its sometimes grumous, and membranes like the decidua are formed in difficult menstruations; in some women it always smells rank and peculiar; in others it is ino-dorous. The use of this monthly secretion is said to be to render the uterus fit for the conception and nutri-rition of the fiestus; therefore girls rarely conceive before the catamenia appear, and women rarely after their

CATAMA'NCE. Succory.

CATAMI'PHTHIS. (From \$\tilde{n}^2\tilde{n}^2\tilde{n}^2\tilde{n}\$, to wash.

Washed, or scoured. Used by hippocrates of a diarrhoza washed and cleansed by boiled milk.

CATAMILE'MA. (From \$\tilde{n}^2\tilde{n}

cap. xiii. CATAPAU'SIS. (From  $\kappa a \gamma a \pi a \nu w$ , to rest, or cease.) That rest or cessation from pain which proceeds from

that resolution of uneasy tumours.

CATAPE'LTES. (From  $\kappa a 7a$ , against, and  $\varpi \epsilon \lambda \tau \eta$ , a shield.)

1. This word means a sling, a granado, or

2. It was formerly used to signify the medicine which heals the wounds and bruises made by such an

CATA'PHORA. (From καταφερω, to make sleepy.) A preternatural propensity to sleep; a mild apoplexy; a species of Dr. Good's Carus Lethargus; remissive lethargy.

(From καλαφρασσω, to fortify.) A CATAPHRA'CTA.

bandage on the thorax.

CATAPLA'SMA. (Cataplasma, matis. neul.; from ka amalasma, politice. The following are among the most useful:—CATAPLASMA ACKTOSE. Sorrel poultice. The leaves

are to be beaten in a mortar into a pulp. A good application to scorbutic ulcers.

CATAPLASMA AERATUM. See Cataplasma fermenti. CATAPLASMA ALUMINIS. This application was formerly used to inflammation of the eyes, which was kept up from weakness of the vessels; it is now seldom

kept up from weakness of the vessels; It is now seldom used, a solution of alum being mostly substituted.

CATAPLASMA CONII. Hemlock poultice. R. Conii foliorum exsiccatorum 3j. Aquæ fontane, ibij. To be boiled till only a pint remains, when as much linseed-meal as necessary is to be added. This is an excellent application to many cancerous and serofulous ulcers, and other malignant ones; frequently producing great diminution of the pain of such diseases, and improving their appearance. Justamond preferred the proving their appearance. Justamond preferred the fresh herb bruised.

CATAPLASMA CUMINI. Take of cumin seeds, one pound; bay-berries, the leaves of water germander dried, Virginia snake-root, of each three ounces; cloves, dried, Virginia snake-root, of each three ounces; clowes, one ounce; with honey equal to thrice the weight of the powder formed: of these make a cataplasm. It was formedly called Theriaca Londinensis. This is a warm and stimulating poultice, and was formerly much used as an irritating amiseptic application to gangrenous ulcers, and the like. It is now seldom ordered.

CATAPLASMA DAVI. Carrot poultice. B. Radicis dauci roceous, bj. Bruise it in a mortar into a pulp. Some, perhaps, with reason, recomment the carrots to be first boiled. The carrot poultice is employed as an application to ulcerated cancers, scrofulous sores of an irritable kind, and various inveterate maliers and the carrot and an analysis of an irritable kind, and various inveterate maliers and the carrot and the carrot and an irritable kind, and various inveterate maliers and the carrot and the carrot and an irritable kind, and various inveterate maliers and the carrot an

of an irritable kind, and various inveterate malignant

CATAPLASMA FERMENTI. Yest cataplasm. Take of flour a pound; yest half a pint. Mix and expose to a gentle heat, until the mixture begins to rise. This is a celebrated application in cases of sloughing and mortification.

This is prepared by bruising a CATAPLASMA FUCI. quantity of the marine plant, commonly called sea-tang, which is afterward to be applied by way of a poultice. Its chief use is in cases of scrofula, white swellings, and glandular tumours more especially. When this vegetable cannot be obtained in its recent state, a common poultice of sea-water and oatmeal has been subtituted by the late Mr. Hunter, and other surgeonact sminance. surgeons of eminence.

CATAPASMA LIM Linseed poultice. B. Faring lini, lbss. Aquæ ferventis, fbjss. The powder is to be gradually sprinkled into the water, while they are quickly blended together with a spoon. This is the best and most convenient of all emollient poultices for common cases, and has, in a great measure, superCAT

CATAPLASMA PLUMBI ACETATIS. B. Liquoris plumbi cetatis, 3 j. Aquæ distill, lbj. Micæ panis, q. s. lisce. Practitioners, who place much confidence in the virtues of lead, often use this poultice in cases of inflammation.

Innamiation.

CATAPLASMA SINAPROS. See Cataplasma sinapis.

CATAPLASMA SINAPIS. Mustard cataplasm. Take
of mustard-seed, linseed, of each powdered half a
pound; boiling vincear, as much as is sufficient.

Mix until it acquires the consistence of a cataplasm.

CATAPLA INSERT. (Compared to the consistence of a cataplasm.

This until it acquires the consistence of a cataplasm.

CATAPLEXIS. (From kara, and wyparw, to strike.) Any sudden stupefaction, or deprivation of sensation, in any of the members, or organs.

CATAPO'SIS. (From karantym, to swallow down.)

According to Areteus, it signifies the instruments of degree the constraints.

degluttion.

CATAPOTUM. (Καταποτίον; from καταπινώ, to BWallow down.) A piil.

CATAPSYXIS. (From ψυχω, to refrigerate.) · A coldness, or chillness, without shivering, either universal, or of some particular part.

CATAPTOSIS. (From καταπιππω, to fall down.)

A falling down. 1. Such as happens in apoplexy.

2. The falling down of a limb from palsy.

CATAPUTIA. (From καζαπιθω, to have an ill BAVOUT; or from the Italian, cacapusza, which has the same meaning; so named from its feetid smell.)

Fourge. Spurge.

dilge. Cataputia major. See Ricinus. Cataputia minor. See Euphorbia Lathyris. Ca Taracta. (From καταρασσω, to confound or CA TARAUTA. (From καταφασσω, to contoind of disturb: because the sense of vision is confounded, if not destroyed.) A cataract; a disease of the eye. Paropsis cataracta of Good. The Calago Intis of Cullen. Hippocrates calls it γλανκωμα. Galen, υτοχυμα. The Arabians, gutta οριακα. Celsus, suffasio. It is a species of blindness, arising almost always from an opacity of the crystalline lens, or its capsule, pre-venting the rays of light passing to the optic nerve It commonly begins with a dimness of sight; and this generally continues a considerable time before any opacity can be observed in the lens. As the disease advances, the opacity becomes sensible, and the patient imagines there are particles of dust, or motes, upon the eye, or in the air, which are called musca volitantes. This opacity gradually increases till the person either becomes entirely blind, or can merely distinguish light from darkness. The disease commonly comes on from darkness. The disease commonly course we rapidly though sometimes its progress is slow and gradual. From a transparent state, it changes to a perfectly white, or light gray colour. In some very rare instances, a black cataract is found. The conperiectly write, or light gray colour. In some very rare instances, a black cataract is found. The consistence also varies, being at one time hard, at another entirely dissolved. When the opaque lens is either more indurated than in the natural state, or retains a tolerable degree of fitmness, the case is termed a firm or hard cataract. When the substance of the lens or hard cataract. When the substance of the reas-seems to be converted into a whitish or other kind of fluid, lodged in the capsule, the case is denominated a milkn or fluid cataract. When the substance is of a milky or fluid cataract. When the substance is of a middling consistence, neither hard nor fluid, but about middling consistence, neither hard nor fluid, but about as consistent as a thick jelly, or curds, the case is named a soft or caseous cataract. When the anterior or posterior layer of the crystalline capsule becomes opaque, after the lens itself has been removed from this little membraneous sac, by a previous operation, the affection is named a secondary membraneous cataract. There are many other distinctions made by authors. Cataract is seldom attended with pain; sometimes, however, every exposure to light creates uneasiness, owing probably to the inflammation at the bottom of the eye. The real cause of cataract is not yet well understood. Numbers of authors consider it as proceeding from a preternatural contraction of the vessels ceeding from a preternatural contraction of the vessels ceeding from a preternatural contraction of the vessels of the lens, arising from some external violence, though more commonly from some internal and occult cause. The cataracta is distinguished from gutta Berena, by the pupils in the latter being never affected with light, and from no opacity being observed in the lens. It is distinguished from hypoyon, staphyloma, or any other disease in the forepart of the eye, by the evident marks which these affections produce, as well as by the pain attending their beginning. But it is difficult to determine when the opacity is in the lens, or in its casule. If the retina (which is an examsion or in its capsule. If the retina (which is an expansion)

meded the bread and milk one, so much in use formerly.

CATAPLASMA PLUMBI ACETATIS. R. Liquoris plumbi depressing the diseased lens, which is termed couch-

ing, or extracting it.
CATARRHEU'MA. CATARRHEU'MA. (From καλαρρεω, to flow from.) A defluxion of humours from the air-pas-

CATARRHE'XIS. (From κα]αρρηγνυω, to burst out.) A violent and copious eruption or effusion; joined with κοιλιας, it is a copious evacuation from the belly, and sometimes alone it is of the same signification. Vogel applies it to a discharge of pure blood

fication. Vogel applies it to a discharge of pure blood from the intestines, such as takes place in dysentery. CATARRHCCUS. (From κα | αρρεω, to flow from.) A disease proceeding from a discharge of phiegm. CATA'RRHOPA. (From κα | αρρεω, to flow down.) Tubercles tending downward; or, as Galen states, those that have their apex on a depending part have

those-that have then appeared acceptainty particles that the control of the disease, or its decline, opposed to the

sion of the disease, or its decline, opposed to the paroxysm.

CATARRHUS. (From κα7αρρεω, to flow down.)

Coryza. A catarth. An increased secretion of mucons from the membranes of the nose, fauces, and bronchia, with fever, and attended with sneezing, cough, thirst, lassitude, and want of appetite. It is a genus of disease in the class Pyrexia, and order Profluvia of Cullen. There are two species of catarth viz. catarthus a frigore, which is very common, and is called a cold in the head; and catarthus a contagio, the influenza, or epidemic catarth, which sometimes seizes a whole city. Catarth is also symptomatic of several other diseases. Hence we have the catarthus rubeolosus; tussis variolosa, verminosa, calculosa, phthistica, hysterica, a dentitione, gravidarum, metalicolurum, &cc.

Catarh is seldom fatal, except in scrofulous habits, by laying the foundation of phthisis; or where it is augravated by improper treatment, or repeated exposure to cold, into some degree of peripneumony; when there is hazard of the patient, particularly if advanced in life, being suffocated by the copious effusion of viscid matter into the air-passages. The epidemic is generally, but not invariably, more severe than the common form of the disease. The latter is usually left to subside spontaneously, which will commonly happen in a few days, by observing the antiphiogistic regimen. If there should be fixed pain of the chest, with any hardness of the pulse, a little blood may be taken from the arm, or topically, followed by a blister: the bowels must be kept regular, and diaphoretics exhibited, with demulcents and mild opiates to quiet the cough. When the disease hangs about the patient in a chronic form, gentle tonics and expectorants are required, as myrrh, squill, &cc. In the epidemic catarrh sure to cold, into some degree of peripneumony; when required, as myrrh, squill, &c. In the epidemic catarrh more active evacuations are often required, the lungs being more seriously affected; but though these should be promptly employed, they must not be carried too far, the disease being apt to assume the typhoid character in its prógress; and as the chief danger appears to be of suffocation happening from the cause abovementioned, it is especially important to promote expectoration, first by antimonials, afterward by squill, the inhalation of steam, &c. not neglecting to support the strength of the patient as the disease advances.

CATARRHUS A PRIGORE. The common defluxion from the head from cold. required, as myrrh, squill, &c. In the epidemic catarrh

CATARRHUS A FRIGORE. from the head from cold.

CATARRHUS A CONTAGIO. The influenza. CATARRHUS BELLINSULANUS. Mumps. nanche parotidæa

CATARRHUS SUFFOCATIVUS. The croup. See Cynanche trachealis

CATARRHUS VESICE. A discharge of mucus from

CATARRTÍSMUS. (From  $\kappa a / a \rho 7 i \xi \omega$ , to make perfect. According to Galen, it is a translation of a bone from a preternatural to its natural situation.

CATASA'RCA. (From  $\kappa a / a$  and  $\sigma a \rho \xi$ , flesh.) See

CATASBE'STIS. (From κα/a and σδεννυμι, to extinguish.) The resolution of tumours without sup-CATASCHA'SMUS. (From καζασχαζω, to sca-

rify.) Scarification. CATASEI SIS. (From κα/a, and σειω, to shake.)

CATASPA'SMA. (From κα7ασπαω, to draw back- [ wards.) A revulsion or retraction of humours, or parts.

CATASTA GMOS. (From ka]a, and sage, to distil.) The name which the Greeks, in the time of Celsus, had for distillation.

CATASTA'LTICUS. (From καταστελλω, to restrain, or contract.) Styptic, astringent, repressing. CATA'STASIS. Καταστασις. The constitution, CATASTA'LTICUS.

CATA STASIS. Karagrages. The constitution, state, or condition of any thing.

CATA TASIS. (From kalagrages, to extend.) In Hippocrates it means the extension of a fractured limb, or a discolated one, in order to replace it.

the actual replacing it in a proper situation. CATA'XIS. (From  $\kappa a / a \gamma \omega$ , to break.) A ture. Also a division of parts by an instrument.

CATE. See Acacia catechu.

CATECHO MENUS. (From κα/εχω, to resist.)

Resisting and making ineffectual the remedies which

have been applied or given.

CA'TECHU. (It is said, that, in the Japanese language, kate signifies a tree, and chu, juice.) See Aca-

CATEIA'DION. (From kara, and sia, a blade of grass.) An instrument mentioned by Arcticus, having at the end a blade of grass, or made like a blade of grass, which was thrust into the nostrils to provoke a hamorrhage when the head ached.

CATE/LLUS. (Dim. of catulus, a whelp.) 1. A

Voung whelp.

2. Also a chemical instrument called a cupel, which was formerly in the shape of a dog's head.

CATHE RESIS. (From kadaspo, to take away.)

1. The subtraction or taking away any part or thing from the body.

2. Sometimes it means an evacuation, and Hippocrates uses it for such

3. A consumption of the body, as happens without manifest evacuation.

CATHERE'TICA. (From καθαιρω, to take away.) Medicines which consume or remove superfluous flesh CATHA RMA. (From καθαιρω, to remove.) excrements, or humours, purged off from the body

CATHA'RMUS. (From καθαιρω, to remove.) purgation of the excrements, or humours.

purgation of the excrements, or humours. 2 A cure by incantation, or the royal touch. Catha'rsia. (From  $\kappa a \theta a \iota \rho \omega$ , to purge.) Medicines which have a purging property. CATHA'RSIS. (From  $\kappa a \theta a \iota \rho \omega$ , to take away.) Purgation of the excrements, or humours, either medication expansion.

dically or naturally. CATHA'RTIC. (Catharticus : from καθαιοω, to purge.) That which, taken internally, increases the number of alvine evacuations. These medicines have received many appellations: purgantia; catocathar-tica; catoretica; catoteretica; dejectoria; alviduca. The different articles referred to this class are divided into five orders.

Stimulating cathartics, as jalap, aloes, bitter apple, and croton oil, which are well calculated to discharge accumulations of serum, and are mostly selected for indolent and phlegmatic habits, and those who

are hard to purge.

2. Refrigerating cathartics, as sulphate of soda, supertartrate of potassa, &c. These are better adapted for plethoric habits, and those with an inflamma-

3. Adstringent cathartics, as rhubarb and damask roses, which are mostly given to those whose bowels

are weak and irritable, and subject to diarrhea.

4. Emollient cathartics, as manna, malva, castoroil, and olive oil, which may be given in preference to other cathartics, to infants and the very aged.

5. Narcotic cathartics, as tobacco, hyoscyamus, and digitalis. This order is never given but to the very strong and indolene, and to maniacal patients, as their

operation is very powerful.

Murray, in his Materia Medica, considers the different cathartics under the two divisions of laxatives and purgatives; the former being mild in their operation, purgauves; the former being mild in their operation, and merely evacuating the contents of the intestines; the latter being more powerful, and even extending their stimulant operation to the neighbouring parts. The following he enumerates among the principal laxatives:—manna, Cassia fistula, Tamarindus indica, Ricinus communis. Suiphur, Magnesia. Under the head of purgatives, he names Cassia senna, Rheum Palmatum Convolvulus ialaoa, Hellehoppraniura Pavo. palmatum, Convolvulus jalapa, Helleborus niger, Bryo-

nia alba, Cucumis colocynthis, Momordica elaterium, nia alba, Chemins colocynilins, Momorica catachian, Rhannus catharticus, Aloe perfoliata, Convolvulus scammonia, Cambagia, Submurias bydrargyri, Sul phas magnesia, Sulphas sodæ, Sulphas potassæ, Supertartras potassæ, Tartras potassæ et sodæ, Phosphas sodæ, Murias sodæ, Terebinthina veneta, Nicotiana tabacum.

neta, Arcottana tapacum. Cathartic Glaubers salt. See Soda sulphas. Cathartic Salt. See Sulphas magnesia, and Sul-

CATHARTINE. A substance of a reddish colour, a peculiar smell, and a bitter nauseous taste, soluble in water and alkohol, but insoluble in æther; obtained

by Lassagns and Fenuelle from the leaves of senna. CATHE DRA. (From καθέζομαι, to sit.) The anus, or rather, the whole of the buttocks, as being the part on which we sit.

CATHERE TICA. (From καθαιοω, to remove.) Corrosives. Applications which, by corrosion, remove

superfluous flesh. CA'THETER.

CATHETER. (Catheter, teris. m.  $Ka\theta\epsilon\tau\eta\rho$ ; from  $\kappa a\theta\iota\eta\mu\iota$ , to thrust into.) A long and hollow tube, that is introduced by surgeons into the urinary bladder, to is introduced by surgeons into the urmary pladaer, to remove the urine, when the person is unable to pass it. Catheters are either made of silver or of the elastic gum. That for the male urethra is much longer than that for the female, and so curved, if made of silver, as to adapt itself to the urethra.

CATHETERI'SMUS. (From καθετηρ, a catheter.)

The operation of introducing the catheter.

CATHI DRYSIS. (From καθιόρυω, to place together.) The reduction setting a broken bone.

CA'THMA. A name for litharge. CA'THODOS. (From κατα, and οδος.) A descent of humours

CATHO LEGUS. (From κατα, and ολκεω, to draw over.) An oblong fillet, made to draw over and cover the whole bandage of the head.

CATHO LICON. (From κατα, and ολικος, uni-

CATHO'LICON. (From kara, and ohkos, universal.) A universal medicine: formerly applied to a medicine, that was supposed to purge all the humours. ["CATHRAL, ISAAC, M. D., was a native of Philadelphia, and studied medicine under the direction of the late Dr. John Redman, the preceptor of Rush and Wistar. After acquiring all the instruction in his profession, which she construction of Philadelphia offer. resion, which the opportunities of Philadelphia offered, aided by a diligent attention on his part, he visited Europe, and attended the practice of the London hospitals, and the lectures of the most distinguished propitals, and the lectures of the most distinguished professors in that city. During the prevalence of the widely destroying epidemic fevers of 1793, '97, '98, and '99, he remained in the city, instead of seeking safety by flying, and was a severe sufferer by the disease of the first of those years. Previously to his illness, and after his recovery, besides attending to practice, he lost no opportunity of investigating every phenomenon connected with that pestilential epidemic, which could in any manner tend to illustrate its pathology, or the peculiarities it exhibited. In the year 1794, he published his remarks thereon, and the mode of treatment he pursued. In conjunction with Dr. Physlek, he dissected the bodies of some subjects of the fever of 1793, in order to discover the morbid effects the fever of 1793, in order to discover the morbid effects produced by it on the system, and in particular reference to the nature of that singular and generally fatal symptom, the dark-coloured ejection from the stomach, in some cases of the disease. The result of their joint labours was published by them, with their individual signatures, and he afterward continued his dissections alone, with unabating zeal, whenever opportunity offered, during the subsequent epidemics and occasional appearance of the disease, which more or less occurred for several years, until he obtained all the light which he thought dissection and experiment could throw upon its production and nature. throw upon its production and nature. In the year 1800, he read to the American Philosophical Society, of which he had been elected a member, an interesting paper on that subject. This paper affords ample evi-dence of the patient and accurate manner in which he investigated that hitherto inexplicable and supposed investigated that hitherto inexplicable and supposed pestilential appearance, and of his fearless zeal in the prosecution of medical science. It is inserted in the 5th vol. of the Transactions of the Society, and was also published in pamphlet form, of 32 pages. A full account of it may be found in the 4th volume of the New-York Medical Repository. He died on the 22d 199

February, 1819, in the 56th year of his age, by a stroke !

of the apoplexy.
"Dr. Cathrall was educated in the religious princi ples of the Society of Friends, and naturally possessed a grave turn of mind, and a serious deportment. Retired in his habits, he was shy in making acquainttired in his habits, he was shy in making acquamances, but firm in his friendships, and a well-bred gentleman in his manners. In the important and endearing relations of a son, husband, and father, he was truly estimable. As a member of society, he set an example of rigid morality and inflexible integrity, attributes which every medical man ought to be proud to have annexed to his character, however distinguished his literary acquirements may be."—Thacker's Med. Ring. A 1 Biog. A.] CATHY'PNIA.

(From Kara, and vavos, sleep.) A

profound but unhealthy sleep.
Ca'τιαs. (From καθιημι, to place in.) An incision knife, formerly used for opening an abscess in the uterus, and for extracting a dead fœtus.

CATI'LLUS. See Catellus.

CA'THUEN ALUMEN. A name given to potassa. CA'TINUS. Katavov. A crucible. CAT-KIN. See Amentum.

CA'TMINT. (So called, because cats are very fond

CATOCATHA'RTICA. (From κατω, downward, and καθαιρω, to purge.) Medicines that operate by stool.

CATO'CHE. (From κατεχω, to detain.) See Cata-

CATOCHEI'LUM. (From κατω, beneath, and χειλος, the lip.) CA'TOCHUS. The lower lip.

(From κατεχω, to detain.) spasmodic disease in which the body is rigidly held in

an upright posture.

an upright posture.

Catomissurs. (From κατω, below, and ωμος, the shoulder.) By this word, P. Ægineta expresses a method of reducing a luxated shoulder, by raising the patient over the shoulder of a strong man, that by the weight of the body, the dislocation may be reduced.

CATO PSIS. (From κατατημαί, to see clearly.)

An acute and quick perception. The acuteness of the

faculties which accompanies the latter stages of con-

CATOPHYLLUM INOPHYLLUM. Calaba. The Indian

mastich-tree. A native of America, where the whole plant is considered as a resolvent and anodyne. CΑΤΟ ΥΕΡΕΕ. (From κατα, and οπομα; to see; by metaphor, a probe.) An instrument called a specu-

CATORCHI'TES. (From  $\kappa a \tau a$ , and  $a \rho \chi_{15}$ , the orchis.) A wine in which the orchis root has been infused. CATORE'TICA. (From  $\kappa a \tau \omega$ , downwards, and  $\rho \epsilon \omega$ , to flow.) Catoteretica; Catoterica. Medicines which purge by stool.

CATOTICA. See Catoretica. CATOTICA. (Catoticus; from karw, below; whence κατωτερος, and κατωτατος, inferior, and infernus.) The name of an order of the class Eccritica, in Good's Nosology; diseases affecting internal surfaces; defined, pravity of the fluids, or emunctories that open into the internal surfaces of organs. It embraces hy-It embraces hyinto me internal surfaces of organs. It embraces hydropsis, emphysema, paruria, and lithia.

Catherre. A mineral, much valued as a precious stone, brought from Ceylon.

Catherre. (From katovlow, to cicatrize.) Medium of the control of the control

dicines that cicatrize wounds CATUTRI'PALI. A name of the Piper longum.

See Amentum.

CAUTCALIS. (From kauktov, a cup; or from dav-kakto, the daucus.) 1. The name of a family, or genus of plants. Class Pentandria; Order, Monogynia. 2. Bastard parsley; so named from the shape of its

CAUCALOYDES. (From caucalis, and stdos, a likeness, from its likeness to the flower of the caucalis.) Like unto the caucalis. The patella is sometimes so called. 3. The wild carrot. CAUCALOI'DES.

CAU'DA. (From cado, to fall; because it hangs

or falls down behind.) A tail.

1. The tail of animals.
2. A name formerly given to the os coccygis, that being in tailed animals the beginning of the tail.
3. A fleshy substance, projecting from the lips of the

vagina, and resembling a tail, according to Actius.

4. Many herbs are called cauda, with the affixed name of some animal, the tail of which the herb is supposed to be like; as cauda equina, lorse-tail; cauda muris, mouse-tail; and in many other instances.

CAUDA EQUINA. 1. The spinal marrow, at its termination about the second humbar vertebra, gives off a

large number of nerves, which, when unravelled, re-semble the horse's tail; hence the name. See Medulla

spinalis.

2. See Hippuris vulgaris.
CAUDA SEMINIS. The tail, or elongated, generally feathery appendage to a seed, formed of the permanent style. It is simple, in Geranium zonale; heiry, in Clematis and Pulsatilla; and geniculate in Tormen-

CAUDA'TIO. (From cauda, a tail.) An elongation

of the clitoris

CAUDATUS. (From cauda, a tail.) Tailed: applied to seeds which have a tail-like appendage; as those of the Clematis vitalba, and Anemone sulphurea. CAUDEX. (Caudex, icis. m.) The body of the root of a plant. See Radiz.
CAUL. 1. The English name for the omentum.

See Omentum.

The amnion, which is sometimes torn by the child's head, passing from the uterus, and comes away

with it wholly separated from the placenta.

CAULE DON. (From καυλος, a stalk.) A transverse fracture, when the bone is broken, like the stump of a

CAU'LIFLOWER. A species of brassica, the flower of which is cut before the fructification expands. The observations which have been made concerning cabbages are applicable here. Cauliflower is, however, a far more délicious vegetable. Seu Brassica capitata CAULINUS.

CAULINUS. Cauline. Belonging to the stem. Leaves and peduncles are so called, which grow on

or come immediately from, the stem.

CAU'LIS. (Caulis, is. m. Kavlog; from kalab, a Chaldean word.) The stalk or stem of herbaceous plants. The characters of the stalk are, that it is natural state of the plant.

A plant is said to be

Caulescent, when furnished with a stem.

Acauline, when without a stem; as in Caulina

From its duration, the stem is distinguished into, Caulus herbaceus, which perishes every year; as Melissa officinalis.

Caulis suffruticosus, which perishes half way down every year; as Cheiranthus incanus.
 Caulis fruticosus, shrubby, having many stems, which do not perish in the winter; as Melissa fruti-

4. Caulis arboreus; as the trunk of trees From the substance, it is distinguished into,

5. Caulis fistulosus, hollow internally; as in Anethum graveolens, and Allium fistulosum.

6. Caulis loculamentosus, hollow and divided into cells; as in Angelica, Archangelica, and Phellandrum aquaticum.

Caulis inanis, or medullosus, empty or pithy; as in Sambucus nigra.

Samudous ingra.

8. Caulis solidus, solid; as in Mentha and Melissa.

9. Caulis ligneus, woody; as Prunus spinosa.

10. Caulis carnosus, fleshy; as in Sedum arboreum.

and Stapelia hirsuta.

11. Caulis pulposus, pulpy; as in Mesembryanthemum crystallinum.

12. Caulis fibrosus, separable into long fibres; as Cocos nucifera.

13. Caulis succosus, full of a juice; as in the Eu-phorbias, and Chelidonium majus. From the difference of the surface, the caulis is said

to be

14. Glaber, or lævis, smooth, without any hairiness,

or roughness, or inequality; as Lepedium latifolium.

15. Scaber, or asper, when it has hard inequalities; as in Galium aperine, and Lithospermum arvense.

16. Suberosus, corky; as Passiflora suberosa, and Quercus suber.

17. Rimosus, cracky; as in Ulmus campestris.18. Tuberculatus, with rough nobe; as in Cissus tuberculata 19. Tunicatus, the cuticle peeling off spontaneously

to large portions; as in Betula alba, and some of the

20. Striatus, having superficial longitudinal lines is in Chærophyllum sylvestre, Aster sibiricus, and Daphne mezereon.

21. Sulcatus, furrowed, fluted, when longitudinally indented with long and deep hollows; as in Celosia coccynea, Selinum carvifolia, Pimpinella sanguisarba, Doronicum pardalianches

22. Perfoliatus, perfoliate; as in Bupleurum perfo-

The figure affords the following distinctions: 23. Caulis teres, or cylindricus, round, without an-

gles; as Sinapis arvensis.

24. Semiteres, half-rounded, flat on one side; as Hyacinthus orientalis, Allum descendens.

- 25. Caulis compressus, which implies that two sides of the stem are flat, and approach each other; as in Poa compressa, Lathyrus latifolius, Pancratium declinatum.
- 26. Caulis anceps, two-edged; as Iris graminea, Hy-

pericum androsemum.

- 27. Caulis angulatus, presenting several acute angles in its circumference. Triangulatus, three-cornered; as in Cactus tri-
- angularis. b. Quadrangulatus, four-cornered; as Cactus tera-
- gonus Quinqueangulatus; as in Cactus pentagonus.
   Sexangulatus, six-cornered; as Cactus hexa-
- gonus.
- e. Multangulatus, many cornered; as Cactus cereus. 28. Caulis obtusangulatus, obtuse-angled; as in Scrophularia nodosa.

Caulis acutangulatus, acute-angled; as in Scrophularia aquatica.

nonuaria aquatica.

30. Caulis triquetrus, three-sided, when there are three flat sides, forming acute angles; as Hedysarum triquetrum, Viola mirabilis, Carex acuta.

31. Caulis tetraquetrus, four-sided; as in Hypericum quadrangulare, Monarda fistulosa, Mentha officiable. cinalis

32. Caulis membranaceus, leaf-like; as in Cactus

phyllanthus.

33. Caulis alatus, when the edges or angles expand into leaf-like borders; as in Onopordium acanthium, and Lathyrus latifolius. 34. Caulus articulatus, jointed; as Cactus flagelli-

formis, and Lathyrus sylvestris

35. Caulis nodosus, knotty, divided at intervals by swellings; as in Scandix nodosa, Geranium nodosum. 36. Caulis enodus, without knot

- From the directions, a stem is called 37. Rectus, erect, when it ascends almost perpendicularly; as the firs, Chenopodium scoparium, &c. 38. Strictus, straight, perfectly perpendicular; as
- Alcea Rosea. 39. Obliques, oblique; as the Solidago Mexicana.
- 40. Ascendens, ascending, when its lower portion forms a curve, the convexity of which is towards the earth, or rests upon it, and the summit rises; as exemplified in many grasses, Trifolium pratense, Hedysarum onobrychis.

41. Descendens, or Declinatus, the reverse of the former, forming an arch, towards the ground; as in Pancratium declinatum, Ficus carica.

42. Nutans, or cernuus, nodding, when bent towards the summit; as Polygonatum multiflora

43. Procumbens, or Prostatus, lying on the earth; as Veronica officinalis.

44. Decumbens, rising a little, and returning to the earth; as Thymus serphyllum.

45. Repens, creeping and sending radicles into the ground; as Trifolium repens, Gnaphalium repens.
46. Flezuosis, zigzag; as in Celestrus buxifolius, and solidago flexicaulis.

47. Radicans, sending fibres which take root in the earth; as Ficus Indica.
48. Sarmentosus, trailing, or sending off a runner, which fixes on neighbouring bodies; as the Hedera

49. Stoloniferus, sending off radicating stolos; as

AN. Statisticrus, sending our radicating stores, as Agrosiis stolonifera, and Fragaria vesca.

50. Scandens, climbing, furnished with tendrils; as Solanum dulcamara, Cobæa scandens.

51. Volubries, twining, winding itself spirally round any other plant or body.

a. Dextrorsum, when from right to left; as Phaseolus multiflorus, and Convolvulus

b. Sinistrorsum, in the opposite direction, or following the apparent motion of the sun; as the Lonicera the sun; as the Lonicera pericleminum, and Humulus lupulus.

52. Lazus, bent by the lightest wind; as Secale sereale, and Juneus bufonius.

53. Rigidus, breaking when lightly bent; as Boer-

haavia scandens

When clothed with any kind of appendage, the stem is designated by a term expressive of this; thus,
54. Caulis foliosus, when leafy; as Melissa offici-

55. Caulus aphyllus, when without leaves; as As-phodelus fistulosus.

56. Caulus squamosus, scaly; as the Orobranche major.

57. Caulis stipulatus, when furnished with stipulæ; as Cystus helianthemum, and Geranium terebinthina

58. Caulis imbricatus, tiled or covered with little leaves or scales; as Crassula imbricata, Aloe viscosa,

59. Caulus vaginatus, sheathed, embraced by the base of a leaf as by a sheath; as Canna indica, Arundo

60. Caulis bulbiferus, bulb-bearing, when studded with bulbs in the axilla of the leaves; as Lilium bulbiferum.

61. Caulis nudus, naked, without leaf, scale, or other covering; as Cuscuta europea.

From its mode of branching, into 62. Caulis simplex, having few branches; as Campanula perfoliata, Verbascum thapsus.

63. Caulis simplicissimus, without branches; as

Orobanche americana and major, Campanula barbata.
64. Caulis prolifer, giving off branches only from the tops of the former; as the Dracena draco.
65. Caulis dichetomus, forked, always divided into pairs; as in Horanthus europæus and Valeriana lo-

66. Caulis ramosus, branched; as Rosmarinus offi-

67. Caulis ramossissimus, having many branches; as Chenopodium scoparia, Ulmus, Grossularia, &c. 68. Caulis paniculatus, paniculate; as in Crambe

tataria. From the pubescence and armature, or defences, into

69. Caulis spinosus, when furnished with sharp spines; as Prunus spinosa, and Mespilus oxyacantha.

70. Caulis aculeatus, prickly, when covered with sharp-pointed bodies; as Rosa centifulia and elegan-

71. Caulis cetaceus, bristly, when the armature con-

sists of brushes of minute bristles; as Cactus flagelli-

72. Caulis ramentaceus, ramentaceous: as in Erica ramentacea

73. Caulis pilosus, hairy, the pubescence consisting of long hairs; as Hieraceum pilocella, Salvia pra-

74. Caulis muricatus, or hispidus, when the hairs are stiff or bristly; as Borago officinalis, and Echium

75. Caulis tomentosus, downy, soft to the touch, like down; as Verbascum thapsus, and Geranium rotundifolium.

76. Caulis villosus, shaggy; as Stachys germanica, and Veronica villosa.

77. Caulis lanatus, woolly, when the hairs are long and matted; as in Stachys lanata, and Ballota lanata.
78. Caulis sericus, silky, when the hairs are shining

and silky.

Instead of pubescence, the covering is in some instances either a dry powdery, or a moist, excretion; and hence, the stem is denominated either

79. Incanus, or pruinosus, when covered with a fine white dust; as the Artiplex portulacoidis. 80. Farinosus, mealy; as the Primula farinosa. 81. Glaucus, of a sea-green colour; as Ricinus offi-

cinalis.

82. Viscidus, viscid, covered with a resinous exuda-tion; as Siline viscosa.
83. Glutinosus, gutinous, when the exudation is adhesive and soluble in water; as in Primula glu-

The primary division of a stem is into lateral steme or branches. These are variously denominated

From their situation, into

84. Opposite, when one branch stands on the opposite side of the stem to another, and their bases are nearly on the same plane; as in Mentha arvensis.

Alternate, one opposite to another, alternately;

as Althea officinalis.

86. Verticiliated, when more than two proceed from a centre, like the spokes of a wheel; as Pinus ahies

87. Scattered, when given off from the stem in any indeterminate manner.

From their direction, the branches, or rami, are

Retried,

88. Patentes, spreading, when the angle formed by
the branch and the upper part of the stem is obtuse;
as in Galium moliugo, and Cestus italicus.

89. Patentissimi, proceeding at a right angle from
the stem, or horizontally; as Ammania ramosior, and
Assertants additional.

Asparagus officinalis.

90. Brachtati, brachiate, spread in four directions, crossing each other alternately in pairs; as Syringa vulgaris, and Panisteria brachiata.

91. Deflexi, bending downward from the stem, in an arched or curved direction; as Pinus larix.

92. Reflexi, hanging almost perpendicularly from the

stem; as Salix babylonica 93. Retroftexi, turned backward; as in Solanum

dulcamara.

94. Introflexi, bent inward, when the tops bend to-wards the stem; as Populus dilatata.
95. Fastigrati, when the tops of the branches, from whatever part of the stem they spring, rise nearly to the same height; as Chrysanthemum corymbosum, and Dianthus barbatus.

and Dianthus barbatus.

96. Vigati, weak and long; as Salix viminalis.

97. Appressi, approximated, when nearly parallel and close to the stem; as Genista tinctoria.

98. Fulcrate, supported, when they project nearly horizontally, and give out root-like shoots from the under side, which, extending until they reach the ground, take root, and serve as props to the branches; as in the banyan-tree, or Ficus religiosus.
CAULIS FLORIDA. Cauliflower.

CAULO'DES. (From Kaulos, a stem.) The white or green cabbage.

CAULO TOM. (From  $\kappa \alpha u \lambda o_5$ , a stem; because it grows upon a stalk.) A name given to the beet. CAU'MA. ( $\kappa \alpha u \mu a_0$ , heat; from  $\kappa \alpha (\omega_0$ , to burn.) The heat of the body in a fever.

2. The heat of the atmosphere, in a fever.

3. The name given by Good and Young, to an in-

flammatory fever. CAU'NGA. A name of the areca. CAU'SIS. (From καιω, to burn.) A burn; or

rather, the act of combustion, or burning. CAUSO'DES. (From καιω, to burn.) A term ap-

plied by Celsus to a burning fever.
CAUSO'MA. (From καιω, to burn.) An ardent or burning heat and inflammation. A term used by Hip-

CAUSTIC. See Causticum. Caustic alkali. The pure alkalies are so called.

See Atkair.

Caustic barley. See Cevadilla.

Caustic bunar. See Argenti nitras.

Caustic outatic atkair. See Anmonia.

CAU STICUM. (From rano, to burn; because it always produces a burning sensation.) A caustic. A substance which has so strong a tendency to combine with organized substances, as to destroy their texture. See Escharotic

CAUSTICUM AMERICANUM. The cevadilla. See Veratrum sabadilla.

CAUSTICUM ANTIMONIALE. Muriate of antimony.
CAUSTICUM ARSENICALE. See Arsenical caustic.
CAUSTICUM COMMUNE FORTIUS. See Potassa cum

CAUSTICUM LUNARE. Sec Argenti nitras

CAUSUS. (From rand, to burn.) A highly ardent fever. According to Hippocrates, a fiery heat, insatiable thirst, a rough and black tongue, complexion yellowish, and the saliva bilious, are its pecular characteristics. Others also are particular in describing it; but, whether ancients or moderns, from what they relate, this fever is no other than a continued ardent fever in a bilious constitution. In it the heat of the body is intense; the breath is particularly fiery; the by a burn.

extremities are cold; the pulse is frequent and small; the heat is more violent internally than externally, and the whole soon ends in recovery or death.

CAUTERY. (Cauterium, from καιω, to burn).

CAUTERY. (Cauterium, from kate, to burn.) Cauteries were divided, by the ancients, into actual and potential; but the term is now given only to the red-hot iron, or actual cautery. This was formerly the only means of preventing hemorrhages from divided arteries, till the invention of the ligature. It was also arteries, till the invention of the ligature. It was also used in diseases, with the same view as we employ a blister. Potential cautery was the name by which kail purum, or potassa, was distinguished in former dispensatories. Surgeons of the present day understand, by this term, any caustic application.

CA'VA. See Cavus.
CA'VE'RNA. (From cavus, hollow.) A cavern. The pudendum rulliebre.

CAVE'RNA. (From caves,
The pudendum muliebre.
CAVIARE. Caviarium. A food made of the hard
roes of sturgeon, formed into a soft mass, or into cakes,
and much esteemed by the Russians.
CAVICULA. (Diminutive of cavilla.) See Cavilla.
CAVICULA. (From cavus.) The ankle, or hollow

of the fool.

CA'VITY. (Cavitas, from cavus, hollow.) 1. Any cavity, or hollowness.

2. The auricle of the heart was formerly called cavitas innominata, the hollow without a name.

CAVUS. Hollow. 1. The name of a vein, vena cava.

See Veins.

2. Applied to the roots of plants; as that of the Fumaria cava CAWE. A term by which the miners distinguish the

opaque specimens of sulphate of barytes.

Cayenne pepper. See Capsicum.
Cazabi. See Jatropha.
CEANO THUS. (From κεανωθος, quia κεει ανωθεν, because it pricks at the extreme part.) A genus of plants in the Linnwan system. Class, Pentandria; Order, Monogynia.

CEANOTHUS AMERICANUS. Celastrus: Celastus. Some noted Indians depend more on this plant, than on the lobelia, for the cure of syphilis, and use it in the same manner as lobelia.

CEA'SMA. (From KEW, to split, or divide.) Ceasmus. A fissure, or fragment.

CE'BER. (Arabian.) The Lignum aloes. Also the capparis.

CERIPI'RA. (Indian.) A tree which grows in Bra-zil, decoctions of the bark of which are used in baths and fomentations, to relieve pains in the limbs, and cutaneous diseases

Culaneous diseases.

CE DAR. See Pinus cedrus.

CE'DMA. (From kedao, to disperse.) A defluxion, or theumatic affection, of the parts about the hips.

CE'DRINUM LIGNUM. See Pinus cedrus.

CEDRITES. (From kedpos, the cedar-tree.) Wine in which the resin which distils from the cedar-tree

in which the resh which distils from the cedar-tree has been steeped.

CEDRIUM. 1. Cedar, or cedar-tree
2. Common tar, in old writings.

CEDROME LA. The fruit of the citron-tree.

CEDRONE LA. Turkey baum.

CEDROSTIS. (From κεδρος, the cedar-tree.) A name of the white bryony, which smells like the cedar.

name of the white brody, which shears like the cenar. See Bryonia alba.

CETORUS. (From Redron, a valley where this tree grows abundantly.) See Pinus cedrus.

CEDRUS AMERICANA. The arbor vitæ.

CEDRUS BACCIFERA. The savine.

CETORUS. (From Redow, to abrade.) The tapeworm; so called from its excoriating and abrading

CELANDINE. See Chelidonium majus.
CELA'STRUS. (From Keda, a dart, which it represents. See Ceanothus americanus.

sents. See Ceanothus americanus.
CELASTUS. See Ceanothus americanus.
CE'LE. (From κηλη.) A tumour caused by the protrusion of any soft part. Hence the compound terms hydrocele, bulonocele, δc. CE'LERY. The English name for a variety of the

CELERY. The English name for a variety of the apium graveolens.

CELESTINE. So called from its occasional delicate blue colour. A native sulphate of strontites. See Heavy spar.

CE'LIS. (From καιω, to burn.) A spot or blemish upon the skin, particularly that which is occasioned

CE LLA TURCICA. See Sella turcica. CE'LLULA. (Diminutive of cella, a cell.) A little cell, or cavity.

CELLULE NASTOIDE. See Temporal bones.
CE'LLULAR. Cellularis. Having little cells.
CELULAR MEMBRANI. Membrana cellulosu: Tela
cellulosa; Panniculus adiposus; Membrana, adiposa,
pinguedinosa et reticularis. Cellular tissue. The
cellular tissue of the body, composed of lamine and
fibres variously joined together, which is the connecting
medium of every part of the body. It is by means
of the communication of the cells of this membrane,
that the butchers blow up their veal. The cellular that the butchers blow up their veal. The cellular membrane is, by some anatomists, distinguished into memorane is, by some anatomists, distinguished into the reticular and adipose membrane. The former is evidently dispersed throughout the whole body, except the substance of the brain. It makes a bed for the other solids of the body, covers them all, and unites them one to another. The adipose membrane consists of the reticular substance, and a particular apparatus for the secretion of oil, and is mostly found immediately under the skin of many parts, and about the

(From κηλη, hernia, and τεμνω, to CELOTO'MIA.

cut.) The operation for hernia.

term of Paracelsus, to signify what is

called the live blood in any particular part

CELSUS, AURELIUS CORNELIUS. It is commonly supposed, that this esteemed ancient author was a Roman of the Cornelian family, horn towards the end of the reign of Augustus, and still living in the time of Caligula. But these points are not established upon certain testimony, and it is even disputed whether he certain testimony, and it is even disputed whether he practised medicine; though his periect acquaintance with the doctrines of his predecessors, his accurate descriptions of diseases, and his judicious rules of treatment, appear to leave little room for doubt on that head. At any rate, his eight books, "De Medicina," have gained him deserved celebrity in modern times, containing a large fund of valuable information; de tailed in remarkably elegant and concise language. In surgery particularly he has been greatly admired, for the methods of practice laid down, and for de-scribing several operations as they are still performed. have been numerous editions of his work, and translations of it into the several modern languages.

CEMENT. Chemists call by this name whatever they employ to unite or cement things together; as

they employ to unite or cement tuning together, as lutes, glues, solders of every kind.

CEMENTATION. A chemical process, which consists in surrounding a body in the solid state with the powder of some other bodies, and exposing the whole for a time in a closed vessel, to a degree of heat not sufficient to fuse the contents. Thus iron is converted into steel by cementation with charcoal; green bottle glass is converted into porcelain by ce-mentation with sand, &cc.

CEME'NTERIUM. A crucible.

(From κεγχρος, millet.) A grain or seed of the fig.

CE'NCHRIUS A species of herpes that resembles

CENEANGE! A. (From κενος, empty, and αγγος, a vessel.) A deficiency of blood, or other fluids in the vessels; so that they have not their proper quantity. CENI'GDAM. Ceniplam; Cenigotam; Cenipolam. An instrument anciently used for opening the head in

epilepsies.

CENIOTE'MIUM. A purging remedy, formerly of use in the venereal disease, supposed to be mercurial.

CENO'SIS. (From xevos, empty.) Evacuation. It imports a general evacuation. Catharsis was applied to the evacuation of a particular humour, which offends with respect to quality.

offends with respect to quality.

CENOTICA. (Cenoticus; from κεγωςις, evacuatio, exinantio, emptiness.) The name of an order in the class Genetica of Good's Nosology: diseases affecting the fluids, and embracing paramenia, leucorrhæa, blenorrhæa, spermorrhæa, and galestea.

CENTAU'REA. (So called from Chiron, the cen-

taur, who is said to have employed one of its species to cure himself of a wound accidentally received, by letting one of the arrows of Hercules fall upon his foot.) The name of a genus of plants in the Linnean system, of the Order, Polygamia frustanea; Class, Syngenasia.

CENTAUREA BEHEN. The systematic name of the part of the diaphragm

officinal behen album; Jacea orientalis patula; Ra-phonticoides lutea. The true white behen of the an-

phonticoides lutea. The true winter bettern of the accients. The root possesses astringent virtues. Centaurea benedictar and of the blessed or holy thistle. Carduus benedictus; Canicus sylvestrie; Centaurea benedictar—calycibus Canicus sylvestrie; Centaurea benedictar—calycibus emissions. the messed or noty unsue. On the conference of t Archipetago Islanda, obtained the name of Benedictias, from its being supposed to possess extraordinary medicinal virtues. In loss of appetite, where the stomach was injured by irregularities, its good effects have been frequently experienced. It is a powerful bitter tonic and adstringent. Bergius considers it as antacid, corroborant, stomachic, sudorific, diuretic, and Chamoinile flowers are now generally eccoprotic. substituted for the Carduus benedictus, and are thought to be of at least equal value.

CENTAUREA CALCITRAPA. The systematic name of the common star-thistle. Star-knapweed. trapa; Carduus stellatus; Jacea ramosissima, stel-lata, rupina. The plant thus called in the pharmaco-pæias, is the Centaurea—calycibus subduplicato-spinopeelis, is the Centaurie conjums succepture spine-sis, sessitious; folis primatificia, linearibus dentais; caule piloso, of Linnaus, every part of which is bitter. The juice, or extract, or infusion, is said to cure intermittents; and the bark of the root, and the seeds, have been recommended in nephritic disorders, and in suppression of urine. It scarcely differs, in its effects, from other bitters, and is now little used.

Centaurea centaurium. Raponticum vulgare:

Centareum magnum; Centaurium majus. Greater centaury. The root of this plant was formerly used as an aperient and corroborant in alvine fluxes. It is now totally discarded from the Materia Medica of this

country

CENTAUREA CYANUS. The systematic name of the blue-bottle, or corn-flower plant. Cyanic Cyanus. The flowers of this plant, Centaurea—calycibus serrafoliis lineavibus, integerrimis, infimis dentatis, of Linnæus, were formerly in frequent use; but their antiphlogistic, antispasmodic, cordial, aperient, diuretic, and other properties, are now, with great propriety, forgotten.

Tortouten. Centrures solstitialis. Calcitrapa officinalis; Cardius stellatus luteus; Cardius solstitualis; Jacea stellata; Jacea lutea capite spinoso minori; Leucanthe veterum. St. Barnaby's thistle. It is commended as an antictric, anticaleuctic, and lithontriptic, but is, in reality, only a weak tonic.

CENTAURIOT DES. The grainda.
CENTAURIUM. (From key Javoos, a centaur: so called, because it was feigned that Chiron cured Hercules's foot, which he had wounded with a poisonous arrow, with it.) Centaury. See Chironia centaurium; CENTAURIUM MAGNUM. See Centaurea Centau-

TRUM.
CENTAURIUM MAJUS. See Centaurea Centaurium.
CENTAURIUM MINUS. See Chironia centaurium.
CENTAU'RY. See Chironia.
CENTIMOR'BIA. (From centum, a hundred, and morbus, a disease.) The Lysimachia nummularia, or moneywort, was so named, from its supposed efficiency of the contact of the cont cacy in the cure of a multitude of disorders.

CENTINO DIA. See Centum nodia. CENTI'PES. (From centum, a hundred, and pes, foot.) The woodlouse, so named from the multi-

a foot.) The v

(From centrum, a centre.) The con-CENTRA'TIO. centration and affinity of certain substances to each other. Paracelsus expresses by it the degenerating of a saline principle, and contracting a corrosive and exulcerating quality. Hence Centrum salis is said to

be the principle and cause of ulcers.

CE'NTRIUM. (From KEYTEW, to prick.) A plaster recommended by Galen against stitches and pains in

CE'NTRUM. (From κεντεω, to point or prick.) 1.

The middle point of a circle. 2. In chemistry, it is the residence or foundation of

matter 3. In medicine, it is the point in which its virtue resides.

4. In anatomy, the middle point of some parts is so named, as centrum nerveum, the middle or tendinous 203

See Diaphragm

See Diaphragm.
CENTEUM OVALE. When the two hemispheres of the brain are removed on a line with a level of the corpus callosum, the internal medullary part presents a somewhat oval centre, which is called centrum ovalc. Yieussenius supposed all the medullary fibres met at this place

CENTRUM TENDINOSUM. The tendinous centre of the diaphragm. See Diapragm. CENTUMNO'DIA. (From centum, a hundred, and nodus, a knot; so called from its many knots or joints.) Centinodia. Common knot-grass. See Polygonum aniculare

CENTO'NCULUS. Bastard pimpernel.
CE'PA. (From κηπος, a wool-card, from the like-ess of its roota.) The onion. See Allium cepa.

CEPA. (From κηπος, a wool-card, from the likeness of its roota.) The onion. See Allium cepa.

CFP Δ'. A species of onion.

CEPHALE'A. (From κεφαλη, the head.) 1. The flesh of the head which covers the skull.

2. A headache. Dr. Good makes this a genus of disease in his Order, Systatica; Class, Neurotica. It has five species, Cephalæa graverus, intensa, hemicranio, pulsatilis, nauscosa.

CEPHALALGIA. (From κεφαλη, the head, and αλγος, pain.) Cephalæa. The headache. It is symptomatic of very many diseases, but is rarely an original disease itself. When midd, it is called cephalagia; v-hen inveterate, cephalæa. When one side of the head only is affected, it takes the names of hemicrania, migrana, hemipagia, and megrim; in one of the temhead only is affected, it takes the names of hemicrania, migrana, hemipagia, and megrin; in one of the temples only, crotaphos; and that which is fixed to a point, generally in the crown of the head, is distinguished by the name of clavus.

CEPHALÁTICA. (FOM KKØAN), the head, and aption of the control of

τιζω, to make pure.)

CE'PHALE.

CEPHALE. Κεφαλη. The head. CEPHALIC. (From κεφαλη, the head.) Pertaining to the head. 1. A variety of external and internal medicines are so called, as being adapted for the cure of disorders of the head. Of this class are the snuffs, which produce a discharge from the mucous membrane of the nose, &c

2. Nerves, arteries, veins, muscles, &c. are so called, which are situated on the head.

3. The name of a vein of the arm, which it was sup-

posed went to the head.

CEPHALIC VEIN. (Vena cephalica; so called be-cause the head was supposed to be relieved by opening it.) The anterior or outermost vein of the arm, that receives the cephalic of the thumb.

CEPHALICUS PULVIS. A powder prepared from asa-

CEPHALI'TIS. (From κεφαλη, the head.) Inflammation of the head. Empresma cephalitis of Good.

CEPHALO. This term is joined to others to denote the connexion of the muscle, artery, nerve, &c. to the

pally affected.

pany anecoen.

CEPHALO-PHARYNGEUS. (From κεφαλη, the head, and φαρυχ', the throat.) A muscle of the pharynx. See Constrictor pharyngis inferior.

CEPHALOPONIA. (From κεφαλη, the head, and

wovos, pain.) Headache.
Czprini. Vinegar.
Czprini. Large myrobalans.

CERA. Wax. Bees' wax. A solid concrete substance, collected from vegetables by bees, and extracted from their combs after the honey is got out, by heating

and pressing them.

It was long considered as a resin, from some properties common to it with resins. Like them it furnishes an oil and an acid by distillation, and is soluble in all oils; but in several respects it differs sensibly from resins. Like these, wax has not a strong aromatic taste and smell, but a very weak smell, and when pure, no taste. With the heat of boiling water, no principles are distilled from it; whereas, with that heat, some essential oil, or at least a spiritus rector, is obtained from every resin. Farther, wax is less soluble in alkohol. If wax be distilled with a heat greater than that of boiling water, it may be decomposed, but I

CENTRUM NERVEUM. The centre of the diaphragm. not so easily as resins can. By this distillation, a small quantity of water is first separated from the wax, By this distillation, a small quantity of water is first separated from the wax, and then some very volatile and very penetrating acid, accompanied with a small quantity of a very fluid and very odoriterous oil. As the distillation advances, the acid becomes more and more strong, and the oil more and more thick, till its consistence is such that it becomes solid in the receiver, and is then called butter of wax. When the distillation is finished, nothing remains but a small quantity of coal, which is almost incombusible. incombustible.

Wax cannot be kindled, unless it is previously heat-ed and reduced into vapours; in which respect it resembles fat oils. The oil of butter of wax may, by resembles 1at oils. The oil of butter of wax may, by repeated distillations, be attenuated and rendered more and more fluid, because some portion of acid is thereby separated from these substances; which effect is similar to what happens in the distillation of other oils and oily concretes; but this remarkable effect attends the repeated distillation of oil and butter of wax, that they become more and more soluble in alkohol; and that they never acquire greater consistence by evapo-ration of their more fluid parts. Boerhaave kept but-ter of wax in a glass vessel, open, or carelessly closed, during twenty years, without acquiring a more solid consistence. It may be remarked, that wax, its butter, and its oil, differ entirely from essential oils and resins and its oil, differ entirely from essentiations and resins in all the above-mentioned properties, and that in all these they perfectly resemble sweet oils. Hence Maquer concludes, that wax resembles resins only in being an oil rendered concrete by an acid; but that it differs essentially from these in the kind of the oil, which in resins is of the nature of essential oils, while in wax and in other analogous oily concretions (as butter of milk, butter of cocoa, fat of animals, spermaceti, and myrtle-wax) it is of the nature of mild unccett, and myrue-wax) it is of the nature of mild unc-tious oils, that are not aromatic, and not volatile, and are obtained from vegetables by expression. It seems probable, that the aciditying principle, or oxygen, and not an actual acid, may be the leading cause of the solidity, or low fusibility of wax.

In the state in which it is obtained from the combs,

it is called yellow wax, cera fava; and this, when new, is of a lively yellow colour, somewhat tough, yet leasy to break: by age, it loses its fine colour, and becomes harder and more brittle. Yellow wax, after being reduced into thin cakes, and bleached by a long sering reduced into third caskes, and becamen by a long exposure to the sun and open air, is again melted, and formed into round cakes, called virgin wax, or white wax, cera alba. The chief medicinal use of wax, is in plasters, unguents, and other like external applications, partly for giving the requisite consistence to other ingredients, and partly on account of its own empliant quality. emollient quality.

See Cera. CERA ALBA.

CERA DICARDO. The carduus pinea.
CERA PLAVA. Yellow wax. See Cera.
[CERA VEGETABILIS. Vegetable wax, or natural

CERA FLAVA. Yellow wax. See Cera.

[Cera vegetablus. Vegetable wax, or natural
wax. Wax seems to abound in some plants more
than in others, and is easily collected from them. The than in others, and in easily confected from them. Are bayberry (Myrica cerifera) abounds on the sandy shores of the United States, and in the autumn the wax is scraped from the plants, and, when metted and run into cakes, forms a beautiful green vegetable wax, which is made into wax tapers, or sometimes melted with a portion of tallow, and made into candles, which partake of the green colour of the wax, and are called banberry candles, the vegetable cera giving hardness and consistence to the candles, and therefore more useful in the heat of summer. We recollect seeing a large ecinen of white vegetable wax in the possession of specimen of white vegetable wax in the possession of Dr. S. L. Mithell, received by him from South America, and exhibited to his class when he lectured on Materia Medica, in the College of Physicians and Surgeons of New-York. On inquiry, since, he informs us, that he never could ascertain the botanical name of the plant, though it was said to be a tree. A.

CERRÉE. (From sepas, a horn). So Rutius Ephesius calls the cornua or appendages of the uterus. CERRNI'9ES. (From sepasyat, to tempor together.) A name formerly applied to a pastil, or troch, by

CE'RAS. (Kepas, a horn.) A wild sort of parsnip is so named from its shape.

CE'RASA. (Κερασος, the cherry-tree; from Κερασος), a town in Pontus, whence Lucullus first brought them to Rome: or from knp, the heart; from the fruit

because cherries are an ingredient.) A purging medi-

cine in Libavius. CE'RASIN. The name given by Dr. John of Berlin, to those gummy substances which swell in cold water, but do not readily dissolve in it. Cerasin is water, but do not readily dissolve in it. Cerasin is coluble in boiling water, but separates in a jelly when the water cools. Water, acidulated with sulphuric, nitric, or muriatic acid, by the aid of a gentle heat, forms a permanent solution of cerasin. Gun tragacanth is the best example of this species of vegetable product.

CERA'SIUS. (From cerasus, a cherry.)
The name of two ointments in Mesue.

CERA'SMA. (From κεραννυμι, to mix.) A mixture of cold and warm water, when the warm is poured into the cold.

CE'RASUS. The cherry and cherry-tree. See

The theiry and theiry the Certains. A composition of wax, oil, or lard, with or without other ingredients. The obsolete synonymes are, cerelaum, ceronium, cerotum, ceratomalagma. Cerates take their name from the wax which enters into their composition, and to which they owe their consistence, which is intermediate between that of plasters and that of ointments; though no very definite rule for this consistence is, in

Though no very definite rule in this consistence is, in fact, either given or observed.

CERA'TIA. (From κερας, a horn, which its fruit resembles.) See Ceratonia siliqua.

CERA'TIA DIPHYLUIS. See Courbaril

CERA'TICUM. See Ceratonia siliqua.

CERA'TICUM. See Ceratonia siliqua.

CERA'TICUM see Ceratonia siliqua.

CERATO-GLOSSUS. (From κερας, a horn, and γλωσσα, tonghe.) A muscle, so named from its shape and

CERATO-GLOSSUS: (From keps, a word, and γγλασασ, a tongthe.) A muscle, so named from its shape and insertion into the tongue. See Hyoglossus.
CERATO-HYODEUS. See Nylo-hyoideus.
CERATO-HOLDES. (From κεραγος, the genitive of κερας, horn, and αλός, appearance.) See Cornea.
CERATO'NIA. (Κερατωνια of Galen and Paulus Kegineta; so cailed from its horn-like pod.) The name of a genus of plants. Class, Polygamia; Order, Triacia.

Triecia.

Ceratoria siliqua. The systematic name of the plant which affords the sweet pod. Ceratium; Ceratium; Ceratium; Stingua dulcis. The pods are about four inches in length, and as thick as one's finger, compressed and unequal, and mostly bent; they contain a sweet brown pulp, which is given in the form of decoction, as a pectoral in asthmatic complaints and coughs.

CERATUM. (Ceratum; i. m.; from cera, wax, because its principal ingredient is wax.) See Cerate.

Ceratum album. See Ceratum lapidis calaminaris; Ceratum epuloticum. Calamine cerate. Take of prepared calamine, yellow wax, of each half a pound; olive oil, a pint. Mix the oil with the melted wax; then remove it from the fire, and, as soon as it begins to thicken, add the calamine, and stir it constantly until the mixture becomes cold. A compositantly until the mixture becomes cold.

stantly until the mixture becomes cold. A composi-tion of this kind was first introduced under the name of Turner's cerate. It is well calculated to promote the cicatrization of ulcers.

CERATUM CANTHARIDIS. Ceratum Lytta. Cerate of bistering fly. Take of spermaceti cerate, six drachms; bistering flies, invery fine powder, a drachm. Having softened the cerate by heat, add the flies, and

mik them together.

CERATUM CETACEI. Cratum spermatis ceti. Ceratum abum. Spermaceli cerate. Take of spermaceli, half an ounce; white wax, two ounces; olive oil, 4 fluid-ounces. Add the oil to the spermaceli and on, 4 nun-ounces. And the on to the spermacet and wax, previously melted together, and stir then until the mixture becomes cold. This cerate is cooling and emollient, and applied to excortations, &c.: it may be used with advantage in all ulcers, where no stimulating substance can be applied, being extremely mild and unctuous.

having a resemblance to it in shape and colour.) The cherry. See Prunus.

Cerasa nigra. See Prunus avium.

Cerasa rubera. See Prunus cerasus.

Cerasia Tum. (From cerasus, a cherry; so called Cerasus avium.)

Cerasia Tum. (From cerasus, a cherry; so called Cerasus avium.)

CERATUM LAPIDIS CALAMINARIS. See Ceratum

CERATUM LITHARGYRI ACETATI COMPOSITUM. See Ceratum plumbi compositu

CERATUM PLUMBI COMPOSITUM.

CERATUM FLUMBI ACETATIS. Unguentum cerussæ acetatæ Cerate of acetate of lead. Take of acetate of lead, bowdered, two drachms; white wax, two ounces; olive oil, half a pint. Dissolve the wax in seven fluid-ounces of oil; then gradually add thereto the acetate of lead, separately rubbed down with the remaining oil, and stir the mixture with a wooden stign, until the whole has united. This gerate is conslice, until the whole has united. This cerate is cooling and desiccative.

CERATUM PLUMBI COMPOSITUM. Ceratum lithargyri acetati compositum. Compound cerate of lead. Take of solution of acetate of lead, two fluid-ounces and a of solution of acetate of lead, two fluid-ounces and a half; yellow wax, four ounces; olive oil, nine fluid-ounces; camphor, half a drachm. Mix the wax previously melted, with eight fluid-ounces of oil; then remove it from the fire, and, when it begins to thicken, add gradually the solution of acetate of lead, and constantly stir the mixture with a wooden slice until it. gets cold. Lastly, mix in the camphor, previously dissolved in the remainder of the oil. Its virtues are cooling, desiccative, resolvent against chronic rheumatism, &c. &c.; and as a proper application to superficial ulcers, which are inflamed.

CERATUM RESINE. Ceratum resine flave; Cera-tum civirinum. Resin cerate Take of yellow resin, yellow wax, of each a pound; olive oil, a pint. Met the resin and wax together, over a slow fire; then add the oil, and strain the cerate, while hot, through a linen cloth. Digestive.

CERATUM SABINE. Savine cerate. Take of fresh

linen cloth. Digestive.

Ceraturi sabine. Savine cerate. Take of fresh leaves of savine, bruised, a pound; yellow wax, half a pound; prepared lard, two pounds. Having methed together the wax and lard, boil therein the savine leaves, and strain through a linen cloth. This article is of late introduction, for the purpose of keeping up a discharge from blistered surfaces. It was hist described by Mr. Crowther, and has since been received into extensive use, because it does not produce the inconveniences that follow the constant application of the common blistering cerate. A thick white layer forms daily upon the part, which requires to be removed, that the cerate may be applied immediately to the surface from which the discharge is to be made. Ceratur saronts. Soap cerate. Take of hard soap, eight ounces: yellow wax, ten ounces; semi-vitreous oxide of lead, powdered, a pound; olive oil, a pint; vinegar, a gallon. Boil the vinegar, with the oxide of lead, over a slow fire, constantly stirring, until the union is complete; then add the soap, and boil it again in a similar manner, until the moisture is entirely evaporated; then mix in the wax, previously melted with the oil. Resolvent; against scrofulous tumours, &c. It is a comvenient application in fractures, and may be used as an external dressing for ulcers. Ceratum simplex. Ceratum. Simple cerate.

tures, and may be used as an external divessing for ulcers.

Ceratum. Simple cerate.

Take of olive oil, four fluid-ounces; yellow wax, four ounces: having melted the wax, mix the oil with it.

Ceratum spermatis cert. See Ceratum cetacci.

Ce'reberus, it has three heads, or principal ingredients, each of which is eminently active.) A fanciful name given to the compound powder of scammony.

Cerceta' leum. (From kepk, to make a noise.) A wheezing, or bubbling noise, made by the trachea, in breathing.

A wheezing, or bubbling noise, made by the trachea, in breathing.

CE'RCHNOS. (From κερχω, to wheeze.) Cerchnus. Wheezing. Dr. Good applies it to a species of his genus Rhonchus, to designate a primary evil or disease; rhonchus cerchnus, or wheezing.

CERCHNO'DES. (From κερχω, to wheeze.) Cerchodes. One who labours under a dense breathing, accompanied with a wheezing noise.

CERCHO'DES. See Cerchndes.

CERCHO'DES. See Cerchndes.

CERCHO'DES. See Cerchndes.

CERCHO'DES. See Cerchndes.

The radial bone of the fore-arm was formerly so called from its shape, like a spoke Also a usual c from its shape, like a spoke Also a usual c from its shape, CENATUM CITRINUM. See Ceratum resinæ.

Of the fore-arm was formerly so called from its current conti. Hemlock cerate B unguenti like a spoke Also a postle from its shape.

CERCO'SIS. (From KEOKOC, a tail.) 1. A polypus ! of the uterus

2. An enlargement of the clitoris.
CE'REA. (From cera, wax.) The cerumen au-

CEKEA. (From cera, wak) The ceramen au-rium, or wax of the ear. CEREA'LIA. (Solemn feasts to the goddess Ceres.) All sorts of corn, of which bread or any nutritious substance is made, come under the head of cerealia, which term is applied by bromatologists as a genus. CEREBE LLA URINA. Paracelsus thus distinguishes urine which is whitish, of the colour of the brain, and

from which he pretended to judge of some of its dis-

orders

CEREBE'LLUM. (Diminutive of cerebrum.) The CEREBE LLOT. (Diminative of cerebrams) The little brain. A somewhat round viscus, of the same use as the brain; composed, like the brain, of a cortical and medullary substance, divided by a septum into a right and left lobe, and situated under the tentorium, in the inferior occipital fosses. In the cerebellum are to be observed the crurae cerebellit, the fourth ventricle, the radicula magna cerebri, and the

fourth ventricle, the raleula magna cerebri, and the protuberantia vermiformes.

CE'REBRUM. (Quasi cerebrum; from kapa, the head.) The brain. A large round viscus, divided superiorly into a right and left hemisphere, and inferiorly into six lobes, two anterior, two middle, and two posterior; situated within the cranium, and surrounded by the dura and pla mater, and tunica azachnoides. It is composed of a corticul substance, which is external; and a medultary, which is internal. It has three cavities, called ventricles; two anterior, or lateral, which are divided from each other by the septum lucedum, and in each of which is the choroid release, formed of blood-vessels: the third ventricle is plexus, formed of blood-vessels; the third ventricle is a space between the thalami nervorum opticorum. The principal prominences of the brain are, the corpus callosum, a medullary eminence, conspicuous upon laying aside the hemispheres of the brain; the corpora striata, two striated protuberances, one in the anterior part of each lateral ventriele; the thalami nervorum opticorum, two whitish eminences behind the former, opticorum, two whitish eminences behind the former, which terminate in the optic nerves; the corpora quadrigemina, four medullary projections, called by the ancients nates and testes; a little cerebrine tubercial lying upon the nates, called the pineal gland; and, lastly, the crura cerebri, two medullary columns, which proceed from the basis of the brain to the madula oblongata. The cerebral arteries are branches of the carotid and vertebral arteries. The veins terminate in circums which you their blead into minate in sinuses, which return their blood into the internal jugulars. The use of the brain is to give off nine pairs of nerves, and the spinal marrow, from which thirty-one more pairs proceed, through whose means the various senses are performed, and muscular motion excited. It is also considered as the organ of the intellectual functions.

Vauquelin's analysis of the brain is in 100 parts; 80 water, 4.53 white fatty matter, 0.7 reddish fatty matter, 7 albumen, 1.12 osmazome, 1.5 phosphorus, 5.15 acids,

ealts, and sulphur.

CEREBRUM ELONGATUM. The medulla oblongata, and medulla spinalis.

CEREFO'LIUM. A corruption of charophyllum.

See Scandix cerefolium CEREFOLIUM HISPANICUM. Sweet-cicely. See Scan-

dir. odorata. CEREFOLIUM SYLVESTRE. See Cherophyllum syl-

vestre.
CERELÆ'UM. (From κηρος, wax, and ελαιον, oil.)
A cerate, or limiment, composed of wax and oil. Also
the oil of tar.
CEREOLUS. A wax bougie.
CEREUS MEDICATUS. See Rongie.
CEREUS MEDICATUS. See Rongie.

made.) Any liquor made from corn, especially ale and strong beer.

CERPUISLE CATAPLASMA. Into the grounds of strong beer, stir as much oatmeal as will make it of a suitable consistence. This is sometimes employed as a stimulant and an antiseptic to mortified parts.

CEREVISIE FERMENTUM. See Fermentum Cere-

CE'BIA. (From cereus, soft, pliant.) The worms which breed in the intestines. See Tania. The flat

CERIN. 1. Subercerin. A peculiar substance which precipitates on evaporation from alkohol, which has been digested on cork

2. The name given by Dr. John to the part of common wax which dissolves in alkohol

mon wax which dissolves in algonol.

3. The name of a variety of the mineral allanite.

Cz'πιοπ. (From κηριον, a honey-comb.) An eruptive dissorder of the head. See Arkor.

CERITE. The siliciferous oxide of cerium. A rare mineral of a rose-red colour, found only in the cop-per mine of Bastnacs, in Sweden. It consists of silica, oxide of cerium, and oxide of iron, lime, and carbonic

CERIUM. The name of the metal, the oxide of which exists in the mineral cerite.

To obtain the oxide of the new metal, the cerite is calcined, pulverized, and dissolved in nitromuriatic acid. The filtered solution being neutralized with pure acid. The intered solution being neutralized with pire potassa, is to be precipitated by tartrate of potassa; and the precipitate, well washed, and afterwards calcined, is oxide of cerium.

Cerium is susceptible of two stages of oxidation; in the first it is white, and this by calcination becomes of

a fallow-red.

The white oxide exposed to the blowpipe soon becomes 1ed, but does not melt, or even agglutinate.
With a large proportion of borax it fuses into a transparent globule.

The white oxide becomes yellowish in the open air, but never so red as by calcination, because it absorbs carbonic acid, which prevents its saturating itself with oxygen, and retains a portion of water, which diminishes its colour.

Alkalies do not act on it; but caustic potassa in the dry way, takes part of the oxygen from the red oxide so

dry way, takes part of the oxygen from the red oxide so as to convert it into the white without altering its nature. The protoxide of cerium is composed by Hisinger of 85.17 metal + 14.83 oxygen, and the peroxide of 79.3 metal + 20.7. The protoxide has been supposed a binary compound of cerium 5.75 + oxygen 1, and the peroxide a compound of 5.75 × 2 of cerium + 3 oxy An alloy of this metal with iron was obtained Vauquelin.

by Vauquelin.

The salts of cerium are white or yellow-coloured,

by Vauquelin. The salts of cerium are white or yellow-coloured, have a sweet taste, yield a white precipitate with hydrosniphinet of potassa, but none with sulpheretted hydrogen; a nilk-white precipitate, soluble in nitric and muriatic acids, with ferroprussiate of potassa, and oxalate of annomia; none with infusion of galls, and a white one with arseniate of potassa.

CERO'MA. (From kypog, wax.) Ecronium. Terms used by the ancient physicians for an unguent, or create, though originally applied to a particular composition which the wrestlers used in their exercises.

CEROPI'SSU'S. (Prom kypog, wax, and tatota, pltch.) A plaster composed of pitch and wax.

CEROTUM. Kyporov. A cerate.

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CERCOTUM. Kyporov. A cerate.

CERCOTUM ones substances are obtained, termed, by Mr. Crum, Cervin and Phenicim. To prepare the former, the indigo is digested in the acid, the mixture is dissolved in a large quantity of sulphuric acid, and the filtered solution is precipitated by potassa. The precipitate consists of cerulen, in combination with the sulphate of potassa, and has been called Cerulco-sulphic of potassa, and has been called Cerulco-sulphic of potassa, and has been called Cerulco-sulphic of potassa, tropictly of forming insoluble compounds with neutral salts, cerulin is analogous to tan. From its ultimate analysis, it appears to consist of a atom of indigo + 4 atoms of water."—Webster's Man. of Chem. A.)

CERUMEN. (Cerunca; diminutive of cera, wax.)

( hem. A.) CERU'MEN. (Cerumen; diminutive of cera, wax.)

CERUMEN AURUM. Cerea; Aurium sordes; Mar-morata aurium; Cypsele; Cypselis; Fugile. The waxy secretion of the ear, situated in the meatus audi-

torius externus.

["CERUMEN AURIS. A degree of deafness is frequently produced by the lodgment of hard dry pellets of this substance in the meanus auditorius. The best plan, in such cases, is to syringe the car with warm water, which should be injected with moderate force. water, which should be imperted with moderate force. In some instances, deafness seems to depend on a defective secretion of the cerumen, and a consequent dryness of the meatus. Here, a drop or two of sweet oil may now and then be introduced into the ear, and fomentations applied."—Cooper's Surg. Dict. A.]

CERU'SSA. (Arabian.) Cerusse. See Plumbi sub-

(carbonus.

CERUSSA ACETATA. See Plumbi acetas.

CERVI SPINA. See Rhamnus catharticus. CERVI'CAL. (Cervicalis; from cervix, the neck.)

Belonging to the neck; as cervical nerves, cervical

Cervical artery. Arteria cervicalis. A branch of the subclavian.

Cervital vertebræ. The seven uppermost of the vertebræ, which form the spine. See Vertebræ.

CERVICA'RIA. (From cervic, the neck; so named because it was supposed to be efficacious in disorders and ailments of the throat and neck.) The heib throat-

CE'RVIX. (Cervix, victs. f.; quasi cerebri via; as being the channel of the spinal marrow.) 1. The neck. That part of the body which is between the head and shoulders.

2. Applied also to organs, or parts which have some extent, to distinguish their parts; as the cervix uteri, neck of the uterus; cervix vesice, neck of the bladder, neck of a bone, &co

CESPITILE PLANTE. (From cespes, a sod, or turf.)
The name of a class of plants in Sauvages' Methodus
Foliorum, consisting of plants which have only radical

leaves; as primrose, &c.
CESPITOSUS. (From cespes, a sod, or turf.) A
plant is so called which produces many stems from one root, thereby forming a close thick carpet on the surface of the earth.

CESPITOS & PALUDES. Turf bogs.

CESTRI'TES. (From κεςρον, betony.) Wine im-

pregnated with betony.

CE'STRUM. (From κεςρα, a dart; so called from the shape of its flowers, which resemble a dart; or because it was used to extract the broken ends of darts from wounds.) See Betonica officinalis.

CETA'CEUM. Spermaceti. See Physeter macro-

CE TERACH. (Blanchard says this word is cor-

rupted from Pterigga, all pov, q. v. as peteryga, ceteringa, and ceterach.) See Asplenium ceterach.

CETIC ACID. Acidum ceticum. The name given by Chevreuil to a supposed peculiar principle of spermaceti, which he has lately found to be the substance. he has called margarine, combined with a fatty matter. CETINE. The name given by Chevreuil to sper-

CETINE. The name given by Chevreun to sport maceti. See Fat.
CEVADIC ACID. By the action of potassa on the fat matter of the cevadilla, a plant that comes from Senegal, called by the French petite orge, there is obtained in the same way as the delphinic acid, an acid which is called the cevadic.
CEVADATE. A salt formed by the combination of the cevadic acid, with earthy, alkaline, and metallic lease.

CEVADILLA. (Dim. o Sce Veratrum sabatilla. of ceveda, barley. Spanish.)

Ceyenne pepper. See Capsicum. CEYLANITE. The name of the mineral called pleonaste, by Hady, which comes from Ceylon, com-nouly in round pieces, but occasionally in crystals. It is of an indigo blue colour, and splendent internally. CHARASITE. The name of a mineral found in the quarry of Alteberg, near Oberstein, in crystals, the pri-

mitive form of which is nearly a cube. It is white, or with a tinge of rose colour, and sometimes transparent.

with a tinge of rose colour, and sometimes transparent. Chacarilla. Charatilla. Charatilla

Othe Civitation Sylvestree. The systematic name of the Civitatia, or bastard hemilock. Charophyllum; caule lawi striato; geniculis tumidiusculis, of Linneus. It is often mistaken for the true hemiock. It may with great propriety be banished from the list of officinals, us it possessee no remarkable property. Chara. (From yea, to be diffused.) An obsolete name of the human hair.

CHALA'SIS. (From xalaw, to relax.) Relaxa-

CHALA'STICA. (From xalaw, to relax.) Medicines which relax.

CHALA'ZION. (From χαλαζα, a hailstone.) Caslaza; Chalazium; Granado. An indolent moveable tubercle on the margin of the eyelid, like a hail-stone. A species of hordeolum. It is that well-known affec-A species of noncomment in such a street in the white, hard, and encysted, and differs from the critic, another species, only in being moveable. Writers mention a species, only in being moveable. Writers mention a division of Chalazion into scirrhous, cancerous, cystic, and earthy

Cha'lbank. Καλβανη. Galbanum. Chalca'nthum. (From χαλκος, brass, and ανθος, a ower.) Vitriol; or rather, vitriol calcined red. The flowers of brass.

CHALCETON. A species of pimpinella.
CHALCOT DEUM OS. The os cunciforme of the tar

CHALCOI DEEM OS. THE OS CUMENOTINE OF THE 1ST SUS. See Counciform bone. CHALLETTIS. See Colcothar. CHALL GRATUM. (From χαλις, an old word that sig-nifies pure wine, and κεραννυμι, to mix.) Wine mixed with water.

CHALI'NOS. Chalinus. That part of the cheeks, which, on each side, is contiguous to the angles of the mouth

CHALK. A very common species of calcareous earth, or carbonate of lime, of a white colour. See

CHALK, BLACK. Drawing slate, found in primitive mountains, and used in crayon drawing, whence its

A clay coloured with oxide of iron. CHALK-STONE. A name given to the concretions in the hands and feet of people violently afflicted with the gout, from their resembling chalk, though chemi-cally different. Dr. Wollaston first demonstrated their true composition to be uric acid combined with ammonia, and thus explained the mysterious pathological relation between gont and gravel.

relation between gont and gravel.

Gouty concretions are soft and friable. They are
insoluble in cold, but slightly in boiling water. An
acid being added to this solution, seizes the soda, and
the uric acid is deposited in small crystals. These concretions dissolve readily in water of potasea. An artificial compound may be made by tritarating uric acid and soda with warm water, which exactly resembles gouty concretions in its chemical constitution.

CHALY BEATE. (Chalybeatus; chalybs, from iron, or steel.) Of or belonging to iron. A term given to any medicine into which iron enters; as chalybeate mixture, pills, waters, &c.

CHALYBBATE WATER. Any mineral water which abounds with iron; such as the water of Tunbridge, Spa, Prymont, Cheltenham, Scarborough, and Hartfel;

and many others.

[Chalybeate waters are so numerous in the United States as to attract little or no attention unless connected with some peculiarity of circumstance, besides the mere solution of iron. The Ballston and Saratoga waters, of New-York, although they contain iron, are not ranked among the chalybeates, having other and more powerful ingredients in their composition. Of the pure chalybeate waters, containing nothing but iron in solution, those most resorted to for health and pleasure are the Stafford Springs, in Connecticut, and Orange, and Schooley's Mountain Springs in New-Jersey. The Stafford Springs are at the foot of a sand-stone ridge, (old red sand-stone formation of Werner.) Orange Springs are in the same sand-stone formation, in the beautiful town of Orange in New Jersey when more powerful ingredients in their composition. Of in the beautiful town of Orange, in New-Jersey, about 20 miles from New-York. There is an excellent house 20 miles from New-York. 20 miles from New-York. There is an excellent house of entertainment at the springs, and there is a salutrious and well-cultivated country surrounding it. Adjacent to the springs is a considerable elevation, from which an extensive prospect is obtained. The city and bay of New-York are plainly visible, with other and more distant prospects. The water of the springs is strongly impregnated, is not very palatable, and is only drunk by invalids, whose physicians recommend

Schooley's Mountain Spring is about 60 miles from New-York, and about the same distance from Phila-delphia, and is resorted to in summer by the inhabitants of both cities, and other places. It is on the side of a mountain nearly 1500 feet above tide water. The water runs in a constant stream from the crack of a rock by the side of the road leading down a ravine of the mountain, which from its elevation is cool and satisfactory. labrious. On the top of the mountain is an extensive

plain, crossed by good roads. There are several public houses in the neighbourhood of the spring. water is a simple challybeate, without being agrated. The iron is deposited in an ochreous sediment as the water passes over the rock. The mountain appears to be a vast deposite of iron ore, much of which is magnetic, affecting the surveyor's compass. Loose specimens of magnet are occasionally picked up on the

CHALYBIS RUBIGO PREPARATA. See Ferri subcar-

CHA'LYBS. (From Chalybes, a people in Pontus, who dug iron out of the earth.) Acies. Steel. The best, hardest, finest, and the closest-grained forged iron. As a medicine, steel differs not from iron. See Tron

CHALYBS TARTARIZATUS. See Ferrum tartariza-

CHAMÆBA'LANUS. (From  $\chi a \mu a \iota$ , on the ground, Wood pea; Earth nut.

and fishavos, a nut.) Wood pea; Earth nut. CHAMEBUXUS. (From \(\chi\_{\text{Map}}\) and the ground, and the fish the box-tree. The dwarf box-tree. CHAMECE DRUS. (From \(\chi\_{\text{Map}}\) and the ground, and \(\kappa\_{\text{Mos}}\), the coctar-tree.) Chamacced \(\text{vs.}\) A species of the production of the species of

and ακόρος, the codar-trees) Chamacedrys. A species of dwart abrotanum.

CHAMÆCI'SSUS. (From χαμαι, on the ground, and κισσος, ivy.) Ground-ivy.

CHAMÆCIEMA. (From χαμαι, on the ground, and κλημα, ivy.) The ground-ivy.

CHAMÆCIEMA. (From χαμαι chamocrista of Linnaus, a decoction of which drank liberally is said to be serviceable against the poison of the might-shade.

CHAMÆDRYS. (From χαμαι, on the ground, and dpus, the oak; so called from its leaves resembling those of the oak.) See Teucrium chamacarys

CHAMÆDRYS FRUTESCENS. A name for teucrium.

CHAMÆDRYS INCANA MARITIMA. See Teucrium.

CHAMEDRYS INCANA MARITIMA. See Teucrium marum.

CHAMEDRYS PALUSTRIS. See Tenerium scordium. CHAMEDRYS SPURIA. See Veronica officinalis. CHAMEDRYS SYLVESTRIS. Wild germander. The

CHAMELE'A. (From χαμαι, on the ground, and ελαια, the olive-tree.) See Daphne alpina. CHAMELE'A. (From χαμαι, on the ground, and ελαιαγνος, the wild olive.) See Myrica

CHAMÆ'LEON. (From  $\chi a\mu a\iota$ , on the ground, and  $\lambda \epsilon \omega \nu$ , a lion, i. e. dwarf lion.) 1. The channeleon, an animal supposed to be able to change his colour at

2. The name of many thistles, so named from the

Variety and uncertainty of their colours.

CHAMÆLEON ALBUM. See Carlina acaulis.

CHAMÆLEON VERUM. See Cnicus.

CHAMÆLEU'CE. (From χαμαί, on the ground, and λευκή, the herb colt's-foot.) See Tussilago far-

CHAMELI'NUM. (From xapat, on the ground, and Arroy, flax, Purging flax. See Limun catharticum.
CHAMÆMET.UM. (From xanat, on the ground, and paploy, an apple; because it grows upon the ground, and has the smell of an apple.) See Anthemes

CHAMEMELUM CANARIENSE. The Chrusanthemum frutescens of Linnaus.

CHAMEMELUM CHRYSANTHEMUM. The Bupthal-

mum germanicum of Linnaus CHAMEMELUM FETIDUM. The Anthemis cotula of Linnæus.

CHAM EMBLUM NOBILE. See Anthemis nobilis. CHAMEMELUM VULGARE. See Matricaria chamo-

CHAMÆ'MORUS. (Χαμαιμορεα; from χαμαι. on the ground, and μορεα, the mulberry-tree.) See Rubus

CHAMÆPEU'CE. (From χαμαι, on the ground, and πευκη, the pine-tree.) See Camphorosma Mons-

CHAMÆ'PITYS. (Chamapitys, yos. f.; from χαμαι, the ground, and ωιτυς, the pine-tree.) See Teu-

crium chamænitus. CHAM EPITYS MOSCHATA. The French ground pine.

CHAMÆPLION. See Erysimum alliaria.

CHAM.FRA PHANUS. (From χαμαι, on the ground, and ραφανος, the radish.) 1. The upper part of the 208

root of apium, according to P. Ægineta. The small-

age, or passley.

2. The dwarf radish.

Chamer'apriles. The Chamerops humilis, or dwarf palm. The fruit called wild dates, are adstringent.

CHAMARODODE NORON. (From Xanat, on the ground, and oologe foot, the rose laurel.) The Azalwa pontica and pododer opov, the rose laurel.) of Linnaus.

of Linneus.

CHAMERUBUS. (From Xapai, on the ground, and rubns, the bramble.) See Rubus chamemorus.

CHAMESPA RATION. (From Xapai, on the ground, and anaptov, Spanish broom.) See Genistatinatoria. CHAMBER. Comara. The space between the capsule of the crystaline lens and the corner of the eye, is divided by the iris into two spaces, called chambers; the space before the iris is termed the anterior chamber; and that behind it, the posterior. They are filled with an apprena full.

chamber; and that beama it, the posterior. They are filled with an aqueous fluid.

CHAMBERLEN, Huser, a native of London, about the middle of the 17th century. He succeeded his father as a practitioner in midwitery, and had also two brothers in the same profession. They invented among them an instrument, the obstetric forces, which greatly facilitated delivery in many cases, and often saved the nacinated delivery in many cases, and otten saven the child: but to him alone, as most distinguished, the merit has been usually ascribed. In 1683, he publish-ed a translation of Mauriceau's Observations, which was much sought after. The instrument procured him great celebrity in this, as well as other countries; and, with successive improvements by Smellie, &c. still continues to be esteemed one of the most valuable adjuvants in the obstetric art. The period of his death is not ascertained.

18 not ascertamed.
[Chamite. See organic relies. A.]
CHAMOMILE. See Anthemis nobilis.
Chamomile, stinking. See Anthemis cotula.
CHAMOMILLA. From χαμαι, on the ground,
and μηλον, an apple) See Anthemis nobilis.
Chamomilla Nottras. See Matricaria Chamo-

CHAMOMILLA ROMANA. See Anthemis.

CHAMOHILLA ROMANA. See Anthoms.
CHAMPIGNION. See Agaricus pratensis.
CHA'NCRE. (French. From kaptivos, cancer.)
A sore which arises from the direct application of the venereal poison to any part of the body. Of course it mostly occurs on the genitals. Such venereal sores as break out from a general contamination of the system, in consequence of absorption, never have the term

Channelled leaf. See Leaf.
Channelled leaf. See Leaf.
Chaoma'ntla signa. So Paracelsus calls those prognostics that are taken from observations of the air; and the skill of doing this, he calls Chaomanca.
Chao'sda. Paracelsus uses this word as an epithet

OHAPMAN, EDMUND, was born about the end of the 17th century; and, after becoming properly in-structed as a surgeon and accoucheur, settled in Lon-don, and soon distinguished himself by his success in difficult labours. His plan consisted chiefly in turning the child, and delivering by the feet when any part but the head presented; also in often availing himself of the forceps of Chamberlen, much improved by him-self, and of which he had the merit of first giving an account to the public in his treatise on Midwitery, in 1732. He also ably defended the cause of the menmidwives against the attack of Douglas, in a small work, in 1737.

CHA'RABE. An Arabian name for amber.
CHA'RABE. (From χαρασσω, to excavate.) The bowels, or sink of the body.

Charamats. The purging hazel-nut.
Charantia. See Momordica elaterium.
CHARCOAL. When vegetable substances are ex-CHARCOAL. CHARCOAL. When vegetable substances are exposed to a strong heat in the apparatus for distillation, the fixed residue is called charcoal. For general purposes, wood is converted into charcoal by building it up in a pyramidal form, covering the pile with clay or earth, and leaving a lew air holes, which are closed as soon as the mass is well lighted; and by this means the combustion is carried on in an imperfect manner.

In charring wood it has been conjectured, that a portion of it is sometimes converted into a pyrophorus, and that the explosions that happen in powder-mills

are sometimes owing to this.

Charcoal is made on the great scale, by igniting wood in iron cylinders. When the resulting charcoal

CHA

is to be used in the manufacture of gunpowder, it is essential that the last portion of vinegar and tar he suffered to escape, and that the reabsorption of the crude vapours be prevented, by cutting off the commanication between the interior of the cylinders and the apparatus for condensing the pyrolignous acid, whenever the late is withdrawn from the furnace. If this

ever the life is withdrawn from the furface. If this precaution be not observed, the gunpowder made with the charcoal would be of inferior quality.

In the third volume of Tilloch's magazine, we have some valuable facts on charcoal, by Mr. Mushet. He justly observes, that the produce of charcoal in the small way, differs from that on the large scale, in which the quantity of char depends more upon the hardness and compactness of the texture of wood, and the which the quantity of the reasoning the product of the working the produ the skill of the workman in managing the pyramid of fagots, than on the absolute quantity of carbon it

Clement and Desormes say, that wood contains one-half its weight of charcoal. Proust says, that good pit-coals afford 70, 75, or 80 per cent. of charcoal or coke; from which only two or three parts in the hundred of ashes remain after combustion.—Tillock's Mag. vol.

Charcoal is black, sonorous, and brittle, and in generail retains the figure of the vegetable it was obtained from. If, however, the vegetable consist for the most part of water or other fluids, these in their extrication will destroy the connexton of the more fixed parts. In Will assroy the comeaning the fact parts. This case the quantity of charcoal is much less than in the former. The charcoal of oily or bituminous substances is of a light pulverulent form, and rises in soot. This charcoal of oils is called lamp-black. A very fine kind is obtained from burning alkohol. See

CHA'RDONE. The artichoke.

CHARISTOLO CHIA. (From χαρις, joy, and λοχια, the lochia; so named from its supposed usefulness to women in childbirth.) The plant mogwort. See Ar-

temista valigaris.

CHARLTON, WALTER, was born in Somerset-shire, 1619. After graduating at Oxford, where he distinguished himself by his learning, he was appointed physician to Charles I, and admitted a fellow of the Royal College of Physicians, in London. He had afterward the honour of attending Charles II., and was one of the first members of the Royal Society He was author of several publications, on medical and other subjects; the former of which contained little original matter, but had the merit of spreading the original matter, but had the merit of spreading the knowledge of the many improvements made about that period, particularly in anatomy and physiology; the principal of them are his "Exercitationes Pathologica," and his "Natural History of Nutrition, Life, and Voluntary Motion." In 1689, he was chosen president of the College, and held that office two years He afterward retired to Jersey, and died in 1707.

CHARME. (From xappa, to rejoice.) Charmis. A cordial mentioned by Galen.

CHARTA. (Chaldean.) 1. Paper.

2. The annios, or interior festal membrane, was called the charta virginea, from its likeness to a piece of fine paper.

of fine paper.

CHA'RTREUX, POUDRE DE. (So called because it was said to have been invented by some friars of the Carthusian order.) A name of the kermes mineral, or hydrosulphuret of antimony.

CHA'SME. (From xaivw, to gape.) Chasmus. Os-

CHAIDO, or gaping.

CHASTE TREE. See Agnus castus.

CHA'TE. The Cucumus agyptia.

["CHAUNCEY, CHARLES, M.D. second President of Harvard College, was born in England in 1589 He had his grammar education at Westminster, and was the second president than the contemporary of the contempora at the school when the gunpowder plot was to have taken effect, and must have perished if the parliament-house had been blown up. At the university of Cambridge he commenced Bachelor of Divinity, and took the degree of M.D. Being intimately acquarated with Archbishop Usher, one of the fuest scholars in Europe, he had more than common advantages to expand his mand, and make improvements in literature. A more learned man than Mr. Chauncey was not to be found among the fathers of New-England. He had been closen Hebrew professor at Cambridge, by the beach of both between the many company to the professor at Cambridge, by the

is to be used in the manufacture of gunpowder, it is instruction to oblige Dr. Williams, Vice-Chancellor of essential that the last portion of vinegar and tar be suffered to escape, and that the reabsorption of the languages, but especially the Hebrew, which be knew crude vapours be prevented, by cutting of the communication between the interior of the cylinders and the who resided in the same house. He was also an accurate Greek scholar, and was made professor of this language when he left the other professorship. This uncommon scholar became a preacher, and was This uncommon schoul became a preacher, the was settled at Ware. He displeased architecting upon the opposing the book of sports, and reflecting upon the discipline of the church, which caused him to emigrate to Plymonth, in Massachusetts, in 1628

President Channey is said to have been an eminent physician; but we are not unformed to what extent he devoted himself to the practice. He left six sons, all of whom were educated at Harvard college, and were preachers. Some of them were learned divines. Dr. Mather says they were all eminent physicians, as their father was before them."—Thack. Med. Biog. A.]

Chay. See Oldenlandia umbellata. See Oldenlandia umbillata.

CHEEK-BONE. See Jugale as. CHEESE. Caseus. The coagulum of milk. When CHESSE. Cascas. The consulum of wilk. When prepared from rich milk, and well made, it is very nutritions in small quantities; but mostly indigestible when hard and ill prepared, especially to weak stomacis. If any vegetable or inhered acid be mixed with milk, the cheese separates, and, if assisted by heat, coagulates into a mass. The quantity of cheese is less when a mineral acid is used. Neutral saits, and lifewise of earthy and metallic saits, separate the cheese from the whey. Sugar and cum-arabic produce the same effect. Caustic alkalies will dissolve the curd by the assistance of a boiling heat, and acids occasion a precipitation again. Vegetable acids have very little solvent power upon curd. This accounts for a greater quantity of curd being obtained when a vegetable acid is used. But what answers best is remet, which is made by macerating in water a piece of net, which is made by macerating in water a piece of the last stomach of a calf, salted and dried for this

Scheele observed, that cheese has a considerable analogy to albumen, which it resembles in being conculable by fire and acids, soluble in ammonia, and arfording the same products by distillation or treatment with nitric acid. There are, however, certain differences between them. Rouelle observed, likewise, a strating analogy between cheese and the gluten of wheat, and that found in the feedlas of geen vegetables. By kneading the gluten of wheat with a little salt and a small portion of a solution of starch, he gave it the taste, smell, and unctuosity of cheese; so that after it taste, smell, and unctuosity of cheese; so that after it had been kept a certain time, it was not to be distinguished from the celebrated Rockefort cheese, of which it had all the pungency. This caseous substance from glutch, as well as the cheese of milk, appears to contain acetate of ammonia, after it has been kept long enough to have undergone the requisite formentation, as may be proved by examining it with sulphuric acid, and with potassa. The pungency of strong cheese, too, is destroyed by alkohol.

In the tilt volume of this balks, Margania, they is

too, is destroyed by alkohol.

In the Ith volume of Tilloch's Magazine, there is an excellent account of the mode of making Cheshire cheese, taken from the Agricultural Report of the county. "If the milk," says the reporter, "be set together very warm, the curd will be firm; in this case, the usual mode is to take a common case-knife, and make incisions across it, to the full depth of the knife's blade, at the distance of about one inch; and again crossways in the same manner, the incisions intersect ing each other at right angles. The whey rising through these incisions is of a fine pale-green colour. The cheese-maker and two assistants then proceed to break the curd: this is performed by their repeatedly putting their hands down into the tub; the cheese-maker, with the skimming-dish in one hand, breaking every part of it as they eatch it, raising the curd from the bottom, and still breaking it. This part of the bu-siness is continued till the whole is broken uniformly siness is continued till the whole is broken uniformly small; it generally takes up about forly minutes, and the curd is then left covered over with a cloth for about half an hour, to subside. If the milk has been set cool together, the curd will be much more tender, the whey will not be so green, but rather of a milky appearance (HFILOPEACE, (From Archay, a lip, and sween, an evil.) A swelling of the lips, or canker in the mouth

mouth.

CHEIME'LTON. (From χειμα, winter.) A chilblain. I line and chalybeate principle. When first drawn, it is

CHEIRA'NTHUS. (From xeio, a hand, and av 005, a flower; so named from the likeness of its blossoms to the fingers of the hand.) The name of a genus of plants in the Limearn system. Class, Tetradynamia; Order, Silvanosa. The wall-flower.
CHERRANTHUS CHEIRI. The systematic name of the well-theory.

the wall-flower. Leucoium luteum: Viola lutea. Common yellow wall-flower. The flowers of this Common yellow wall-hower. The flowers of this plant, Chevanathus; folius lancoclate, acatus, glabris; ramis angulatis; caule fraticoso, of Linnaus, are recommended as possessing nervine and deobstruent virtues. They have a moderately strong, pleasant smell, and a nauseous, bider, somewhat pungent taste.

[CHBIRANTHODENDRON. A tree growing in Mexico, [CHERRATHODENDRON. A tree growing in Mexico, so called from the appearance of the flower representing the human hand and fingers. (From 2009, a land, asboy, a flower, and cheropon, a tree.) It is a large tree, bearing a flower resembling a human hand. The part producing this resemblance is the pishilum, which rises above the calya, and is divided into five parts, analogous to the thumb and fingers. The resemblance is very striking, but the digits are sharp and pointed, more like claws. We have seen preserved specimens The resemblance

of the flowers in very good order. A.]

CHEIRA'PSIA. (From χειρ, the hand, and απομα, to touch.) The act of scratching; particularly the scratching one hand with another, as in the itch. CHEI'RI. (Cheiri, Arabian.) See Cheiranthus

Cheiri.

CHEIRIA'TER. (From χειρ, the hand, and ισ7ρος, a physician.) A surgeon whose office it is to remove maladies by operations of the hand.

In Japour with

CHEIRI SMA. (From χειριζομαι, to labour with le hand.) Handling. Also a manual operation.

CHEIRI'XIS. (From χειριζομαι, to labour with the hand.) The art of surgery.

CHEIRIA AIS. (From χειρουρμα) the hand.) The art of surgery.
CHEIRONO MIA. (From χειρουρμο, to exercise with the hands.) An exercise mentioned by Hippocrates, which consisted of gesticulations with the hands, like our dumb-bells.
CHEILA. (Χηλη, forecps; from χεω, to take.)
1. A forked probe, for drawing a polypus out of the

nose.

2. A fissure in the feet, or other places. The claw of crabs, which lays hold like forceps.

CHELE CANCRORUM.

3. The claw of crabs, which lays hold has loteeps. Chelle cancerorem. See Cameer. Chelloo'nlum. (From xendow, the swallow. It is so named from an opinion, that it was pointed out as useful for the eyes by swallows, who are said to open the eyes of their young by it; or because it blossoms about the time when swallows appear.) Celandine. A genus of plants in the Linaean system. Class, Polyandria; Order, Monogynia. There is only one species used in medicine, and that rarely. Chellonkum Malts. Papaver corniculatum, luteum; Curcum. Tetterwort, and great celandine. The herb and root of this plant, Cheldonium—peduaculis umbeilatus, of Linneus, have a faint, umpleasant smell, and a bitter, aerid, durable taste, which is stronger in the roots than the leaves. They are aperient and diuretic, and recommended in ieterus, when

rient and diuretic, and recommended in icterus, when not accompanied with inflammatory symptoms. The not accompanied with Inflammatory by mpronus. Lue chelidonium should be administered with caution, as it is liable to irritate the stomach and bowels. Of the dried root, from 3 ss to 3 j is a dose; of the fresh root, infused in water, or wine, the dose may be about 3 ss. The decoction of the fresh root is used in dropsy, cachexy, and cutaneous complaints. The fresh juice cachexy, and cutaneous complaints. The fresh juice is used to destroy warts, and films in the eyes; but, for the latter purpose, it is diluted with milk.

CHELIDONIUM MINUS. The pill-wort. See Ranun-

CHELO'NE. Χελωνη. 1. The tortoise.

2. An instrument for extending a limb, and so called 2. An instrument for extending a limb, and so called because, in its slow motions, it represents a tortoise. This instrument is mentioned in Oribasius.

CHELO'NION. (From ye/away, the tortoise; so called from its resemblance to the shell of a tortoise.) A hump or gibbosity in the back.

CHELTENHAM. The name of a village, now because the property of the property of

come a large and populous town, in Gloucestershire. It is celebrated for its purging waters, the reputation of which is duily increasing, as it possesses both a sa-

clear and colourless, but somewhat brisk; has a sa-line, bitterish, chalybeate taste. It does not keep, nor line, bitterish, chalybeate taste. It does not keep, nor bear transporting to any distance; the chalybeate part being lost by precipitation of the iron, and in the open air it even turns textid. The salts, however, remain. Its heat, in summer, was from 50° to 55° or 59°, when the medium heat of the atmosphere was nearly 15° higher. On evaporation, it is found to contain a calcareous earth, mixed with other and a purging salt. A general survey of the component parts of this water, according to a variety of analyses, shows that it is decorded wallow and contains much more said them. ter, according to a variety of analysis, slower that it is decidedly saline, and contains much more salt than most mineral waters. By far the greater part of the salts are of a purgative kind, and therefore an action on the bowels is a constant effect, notwithstanding the considerable quantity of selenite and earthy carbonates, which may be supposed to have a contrary tendency. Cheltenham water is, besides, one of the strongest chalybeates we are acquainted with. The iron is suspended entirely by the carbonic acid, of which gas the water contains about an eighth of its bulk; but, from the abundance of earthy carbonates, and oxide of iron, not much of it is uncombined. It has, besides, a slight impregnation of sulphur, but so little as to be slight impregnation of sulphur, but so little as to be scarcely appreciable, except by very delicate tests. The sensible effects produced by this water, are generally, on first taking it, a degree of drowsiness, and sometimes headache, but which soon go off spontaneously, even previous to the operation on the bowels. A moderate dose acts powerfully, and speedily, as a cathartic, without occasioning griping, or leaving that faintness and languor which often follow the action of the rougher catharties. It is principally on this ac-count, but partly too from the salutary operation of the chalybeate, and perhaps the carbonic acid, that the the cnaybeate, and pernaps the carbonic acon, that the Cheltenlann water may be, in most cases, persevered in, for a considerable length of time, uninterruptedly, without producing any inconvenience to the body; and during its use, the appetite will be improved, the digestive organs strengthened, and the whole constitution invigorated. A dose of this water, too small to operate directly on the bowels, will generally determine pretty powerfully to the kidneys. As a purge, this water is drank from one to three piats; in general, from half a pint to a quart is sufficient. Half a pint will contain half a drachm of neutral purging salts, four grains of earthy carbonates, and selenite, about one-third of a grain of oxide of iron; together with an ounce in bulk of carbonite acid and half an ounce ocommon air, with a little sulphuretted hydrogen. Cheltenham water is used, with considerable benefit, it as a under of diseases against high of the highest properties. the number of diseases, especially of the chronic kind, and particularly those called bilious: hence it has been found of essential service in the cure of glandular obstructions, and especially those that affect the liver, and the other organs connected with the functions of the alimentary canal. Persons who have injured their biliary organs, by a long residence in hot climates, biliary organs, by a long residence in hot climates, and who are suffering under the symptoms, either of excess of bile or deficiency of bile, and an irregularity in its secretion, receive remarkable benefit from a course of this water, judiciously exhibited. Its use may be here continued, even during a considerable degree of debility; and from the great determination to the howels, it may be employed with advantage to check the incipient symptoms of dropsy, and general ansarca, which so often proceed from an obstruction of the liver. In scredibus, affections, the sea how the ansarca, which so often proceed from an obstruction of the liver. In scrotluous affections, the sea has the decided preference; in painful affections of the skin, called scorbutic eruptions, which make their appearance at stated intervals, producing a copious discharge of lymph, and an abundant desquamation, in common with other saline purgative springs, this is found to bring relief; but it requires to be persevered in for a considerable time, keeping up a constant determination to the bowerls, and making use of warm bathing. The season for drinking the Cheltenham water is The Sassin to drinking the Victorian water is during the whole of the summer months.

CHE'LYS.  $(X \in \lambda v_S, a$  shell.) The breast is so called, as resembling, in shape and office, the shell of

some fishes.

CHELY'SCION. (From xilvs, the breast.) A dry, short cough, in which the muscles of the breast are very sore.

A measure mentioned by the Greek phy-CHE'MA. sicians, supposed to contain two small spoonfuls.

CHE'MIA. See Chemistry.
CHE'MICAL. Of or belong
CHEMISTRY. (Xvµta, & Of or belonging to chemistry.

CHEMISTRY. (Xupta, and sometimes χημια: Chamia, from chama, to burn, Arab, this science being the examination of all substances by fire.) Chamia; Chimia; Chimia; Chimia. The learned are not yet agreed as to the nost proper definition of chemistry. Boerhaave seems to have ranked it among the arts. According to seems to have ranked it among the arts. According to Macquer, it is a science, the object of which is to dis-Macquer, it is a science, the object of which is to discover the nature and properties of all bodies by their analyses and combinations. Dr. Black says, it is a science which teaches, by experiments, the effects of heat and mixture on bodies; and Fourcroy defines it a science which teaches the mutual actions of all natural bodies on each other. "Chemistry," says Jacquin, "is that branch of natural philosophy which unfolds the nature of all material bodies, determines unfoids the nature of all material bodies, determines the number and properties of their component parts, and teaches us how those parts are united, and by what means they may be separated and recombined." Mr. Heron defines it, "That science which investigates and explains the laws of that attraction which takes place between the minute component particles of na-tural bodies." Dr. Ure's definition is, "the science which investigates the composition of material substances, and the permanent changes of constitution which their mutual actions produce." The objects to which the attention of chemists is directed, comprehend the whole of the substances that compose the

CHEMO'SIS. (From χαινω, to gape; because it gives the appearance of a gap, or aperture.) Inflamation of the conjunctive membrane of the eye, in which the white of the eye is distended with blood, and elevated above the margin of the transparent cor-nea. In Cullen's Nosology, it is a variety of the ophthalmia membranarum, or an inflammation of the

membranes of the eye.

CHENOPODIO-MORUS. (From chenopodium and mo-rus, the mulberry; so called because it is a sort of chenopodium, with leaves like a mulberry.) The herb mulberry-blight. The Blitum capitatum of Liu-

CHENOPO DIUM. (From  $\chi p_V$ , a goose, and  $\varpi ovs$ , a foot; so called from its supposed resemblance to a goose's foot.) The name of a genus of plants in the Linnean system. Class, Pentandria; Order, Digynia. The herb chenopody: goose's foot.

nia. The herb chenopody: goose's foot.
Chenopodium ambrostoibes. The systematic name of the Mexican tea-plant. Botrys Mexicana; Chenopodium Mexicana; Chenopodium Mexicanam; Botrys Americana. Mexico tea; Spanish tea and Artemisian botrys. Chenopodium—folitis lancelatis dentatis, racemis foliatis simplicibus, of Linneus. A decoction of this plant is recommended in paralytic cases. Formely the infusion was drank instead of Chinese tea.

CHENOPODIUM ANTHELMINTICUM. The seeds of this plant, Chenopodium—folicis ovato-oblongis den-tatis, racemis aphyllis, of Linneus, though in great esteem in America, for the cure of worms, are seldom exhibited in this country. They are powdered and made into an electuary, with any proper syrup, or

["The Chenopodium anthelminticum, is a native plant, found in the middle and southern states, usually known by the names of normneed and Jerusalem oak. The name wormseed is applied in Europe to the Artemisia santonica, a very different plant. The chenopodium is accounted a good vermiting, especially in the lumbric of children. The expressed juice of the whole plant is sometimes given in the dose of a tablespoonful to a child two or three years old. More frequently the powdered seeds are employed, mixed with treacle or syrup. The seeds yield a volatile oil on distillation, which is prescribed in doses of six or eight drops, in sugar or some suitable vehicle,"—Big. Mat. Med. A. 1 known by the names of wormseed and Jerusalem oak

CHENOPODIUM BONUS HENRICUS. The systematic name of the English mercury. Bonus Henricus; Tota bona; Lapathum unctuosum; Chenopodium; Chenopodium—folius triangulari-sagittatis, integerrimis, spicir compositis aphyllis axillaribus, of Linneus. The plant to which these names are given, is a native of this country, and common in waste grounds from June to August. It differs little from spinach when cultivated; and in many places the young shoots are

eaten in spring like asparagus. The leaves are accounted emollient, and have been made an ingredient in decoctions for clysters. They are applied by the common people to flesh wounds and sores under the notion of drawing and healing.

notion of drawing and healing.

CHENOPODIUM BOTRYS. The systematic name of the Jerusalem oak. Botrys vulgaris; Botrys; Ambrosia; Artemisia chenopodium; Atriplex odorata: Atriplex suaveolens; Chenopodium—foliis oblongs sinuatis, racemis nudis multiplats, of Linneus. This plant was formerly administered in form of decoction to the chest as heavent as the same of the same of the chest as heavent as the same of the same of the chest as heavent as the same of the in some diseases of the cliest; as humoral asthma, coughs, and catarris. It is now fallen into disuse.

CHENOPODIUM FETIDUM. See Chenopodium vul-

CHENOPODIUM VULVARIA. The systematic name Chenopopiem Vulvaria. The systematic name for the stinking orach. Attriplex factida; Attriplex olida; Vulvaria; Garosmum: Raphex; Chenopodium factidum; Blitum factidum. The very feetid smell of this plant, Chenopodium—folisis integerrums rhombeo ovatis, floribus conglomeratis axillaribus, of Linnaus, induced physicians to exhibit it in hysterical diseases. It is now superseded by more active preparations. Messrs. Chevalier and Lasseigne have detected animals in this shart in an uncombined state, which is monia in this plant in an uncombined state, which is probably the vehicle of the remarkably nauseous odour probably the ventice of the remarkanty nauscoits ofour which it exhales, strongly resembling that of putrid fish. When the plant is bruised with water, and the liquor expressed and afterward distilled, we procure a fluid which contains the subcarbonate of ammonia, and an oily matter, which gives the fluid a milky ap-pearance. If the expressed juice of the chenopodium be evaporated to the consistence of an extract, it is found to be alkaline; there seems to be acetic acid in Its basis is said to be of an albuminous nature. is stated also to contain a small quantity of the substance which the French call osmazome, a little of an aromatic resin, and a bitter matter, soluble both in alkohol and water, as well as several saline bodies. CHERAS. (From Xxo, to pour out.) An obsoictename of struma, or scrotula.

name of struma, of scrottula.

CHEERFO'LUM. See Scandiz cerefolium.

CHE'RMES. (Arabian.) A small berry, full of insects like worms: the juice of which was formerly made into a confection, called confection alkermes, which has been long disused. The worm itself was also so called.

CHERMES MINERALIS. Hydro-sulphuret of anti-

CHERNI'BIUM. Chernibion. In Hippocrates it signifies a urinal. (From Χειρων, the Centaur.) See-

CHERO'NIA. Chironia centaurium

Chironae centaurium.
CHERRY. See Cerasa nigra, and Cerasa rubra,
Cherry bay. The Lauro-cerasus.
Cherry-laurel. The Lauro-cerasus.
Cherry, winter. The Alkekengi.
CHERVILLUM. See Scanduz cerefolium.
CHESELDEN, WILLIAM, was born in Leicestershire, 1688. After serving his apprenticeship to a surgeon at Leicester, he came to study at St. Thomas's hospital, to which he afterward became surgeon. He became to give lectures at the cartivase of 2<sup>3</sup> and about inspital, to which he alterward became surgeon. In began to give lectures at the early age of 22, and about the same period was elected Fellow of the Royal Society. Two years after, he published his "Anatomical Description of the Human Body," with some select cases in surgery, which passed through several editions; in one of which he detailed his success in the operation of lithotomy by the lateral method, as it is operation of initionly by the received making as the high operation. He also gave, in the Philosophical Transactions, an interesting account of a grown person whom he restored to sight after being blind from infancy; and furnished some other contributions to the same work. Besides being honourably distin-guished by some of the French societies, he was ap-pointed principal surgeon to Queen Caroline, to whom he dedicated his splendid work on the bones in 1733. He was four years after chosen surgeon to Chelsea Hospital, and retired from public practice, and lived to e age of 64.

See Æsculus and Fagus.

Chesnut, horse. See Asculus Hippocastanum. Chesnut, sweet. See Fagus castanea.

CHEU'SIS. (From XEW, to pour out.) Infusion. CHEVA'STRE. A double-headed roller, applied by

it is crossed on the top of the head; then passing to the nape of the week, is there crossed; it then passes under the chin, where crossing, it is carried to the top of the head, &c. until it is all taken up.

CHEXNE. GEORGE, was born in Scotland, 1670.

CHEYNE, Georger, was born in Scotland, 1870. After graduating in nedicine, he came to London, at the age of 30, and published a Theory of Fevers, and five years after a work on Fluxions, which procured his election into the Royal Society; and this was soon followed by his \* Philosophical Principles of Natural Religion." Being naturally inclined to corpulency, and indulging in free living, he became, when only of a middle age, perfectly unwieldy, with other banks of an impaired constitution; against which, finding medians of the processing of little await he datagrained to abstain from all cines of little avail, he determined to abstain from all fermented liquors, and confine himself to a pulk and vegetable diet. This plan speedily relieved the most distressing symptoms, which led him after a while to resume his luxuries; but finding his complaints presently returning, he reserted again to the abstemious plan; by a steady perseverance in which he retained a tolerable share of health to the advanced age of 72. a forestable share of health to the advanced age of 72.
In 1722, in a treatise on the gent, &c. he first inculcated this plan; and two years after greatly enlarged
on the same subject, in his celebrated "Essay on
Health and Long Life." His "English Mataly, or
Treatise on Nervous Diseases," which he regarded as
consciolly mentalest in this country. Preatise on Nervons Diseases, which he regarded as especially prevalent in this country, a very popular work, published 1733, contains a candid and judicious narrative of his own case.

CHEXANNCE. (Prom χεζω, to go to stool, and αναγκη, necessity.) 1. Any thing that creates a necessity to go to stool.

2. In P. Ægineta, it is the name of an ointment,

Ægineta, it is the name of an ointment, with which the anus is to be rubbed for promoting stools

CHI'A. (From X<sub>10</sub>s, an island where they were brunerly propagated.) 1. A sweet fig of the island formerly propagated.)
of Cyprus, Chio, or Scio.

An earth from the island of Chio, formerly used in fevers.

3. A species of turpentine. See Pistacia terebin-

CHI'ACUS. (From X<sub>105</sub>, the island of Scio.) An epithet of a collyrium, the chief ingredient of which was wine of Chios.

CHI ADUS. In Paracelsus it signifies the same as

Chian turpentine. See Pistacia terebinthus. Chia superities. See Fisical terrolinus.

Chia subs. (From Zuaso, to form like the letter X, chi.)

The name of a bandage, the shape of which is like the Greek letter X, chi.

CHASTOLITE. The name of a mineral found in

Britany and Spain, somewhat like steatite.
Chia stos. The name of a crucial bandage in

Oribasius; so called from its resembling the letter X,

The name of a bandage for the tempo-CHIA'STRE. ral artery. It is a double-headed roiler, the middle of which is applied to the side of the head, opposite to that in which the artery is opened, and, when brought round to the part affected, it is crossed upon the compress that is laid upon the wound, and then, the continuation is over the coronal suture, and under the chin; then crossing on the compress, the course is, as at the first, round the head, &c. till the whole roller is taken up.

Chi bou. A spurious species of gum-elemi, spoken of by the faculty of Paris, but not known in England. CHICHI'NA. Contracted from China China.

CHICKEN. The young of the gallinaceous order of birds, especially of the domestic fowl. See Pha-

of birds, especially of the domestic towl. See Phasimus galdus.
CHICKEN POX. See Varicella.
CHICKEN POX. See Varicella.
CHICKEN POX. See Jasine media.
CHICGYNEAU, Praxers, was born at Montpelier in 1672, the second son of a professor there, who becoming blind, he was appointed to discharge his duties, after taking his degrees in medicine. Having acquitted himself very renditably, he was deputed with other physicians to Marseilles in 1720, to device measures for arresting the progress of the plague, which in the end almost depopulated that city. The zeal which he evinced on that occasion was rewarded by Ppension; and on the death of his father-in law, M. pension; and on the death of his father-in law, M.

its middle below the chin; then running on each side, I Chirac, in 1731, he was appointed to succeed him as Chirac, in 1731, he was appointed to saccoon him to first physician to the king; and received also other honours previously to his death in 1752. He published in 1721, in conjunction with the other physicians, an account of the plague at Marseilles, in which the opinion is advanced, that the disease was not contagious and having received orders from the king to collect all the observations that had been made concerning that disease, he drew up an enlarged treatise with much disease, he trees up the candour, and containing a number of useful facts, which was made public in 1744.

[Chigoe, or gigger: A small insect so called in the West India islands, infesting the feet of those who go barefoot, and particularly the negroes. It is a very minute insect, and, when magnified, has very much the appearance of a flea. It penetrates the skin of the feet without producing pain, and there forms its nidus.
As It increases in growth in its new situation, it produces little swellings and intolerable itching. The female negroes carefully extract them with a needle.
When they are not extracted, the parent deposites its eggs, and as these hatch, the irritation causes increased swellings and ulceration, which sometimes cause the loss of limbs, and even death to the sufferers. Poulof Indian meal are the only applications to hea! the ulcerations and abscesses caused by the chi-

goes. A.]
CHILBLAIN. See Pernio.
[\*\*CHILBLAIN. Through M. D., was born at Deerfield, Massachusetts, February, 1748. He was entered as a member of Harvard College in 1764, but was under the necessity of taking a dismission at the close of his junior year, by the failure of the funds on which he junior year, by the failure of the tunes on wince he
had relied to carry him through the regular course of
that seminary. From Cambridge he returned to Deerfield, where he studied physic and surgery with Dr.
Williams; and from whence, in 1771, at the age of
twenty-three, he removed to practise in Pittsfield.

An ardem and decided friend of civil liberty, he took

a deep interest in those great political questions which at that period were agitated between Great Britain and her American colonies. No young man, perhaps, was of the British parliament than Dr. Childs, and as a proof of the confidence reposed in him by the fathers of the town, it need only be mentioned that in 1774, when the crisis of open hostility was approaching, he was appointed chairman of a committee to draw a petition to his Majesty's Justices of Common Pleas in the county of Berkshire, remonstrating against certain acts of parliament which had just been promulgated, and praying them to stay all proceedings till those unjust and oppressive acts should be repealed.

In the same year, (1774.) Dr. Childs took a commis-

sion in a company of minute-men, which, in compliance with a recommendation from the convention of the New-England states, was organized in that town. When the news of the battle of Lexington in 1775 was received, he marched with his company to Boswas received, he marched with his company to Boston, where he was soon after appointed a surgeon of Colonel Patterson's regiment. From Boston he went with the army to New-York, and from thence accompanied the expedition to Montreal. In 1777 he left the army, and resumed his practice in the town of Pittsfield, and continued in it fill less than a week be-

fore his death, at the advanced age of seventy-three. In 1792, Dr. Childs was elected a representative to In 1792, Dr. Chinds was relected a representative to the General Court, and for several years received the same pledge of public confidence. He also held a seat in the senate for a number of years, by the suffiages of the county in which he lived and died. But it was of the county in which he nived the died. But it was in his profession he was most highly honoured and extensively useful. He was early elected a member of the Massachusetts Medical Society, and held the office of counsellor of that society to the time of his death. In the year 1811, the University of Cambridge conferred on him the degree of Doctor of Medicine.
When the district society, composed of the fellows of
the state society, was established in the county in
which he lived, he was appointed censor, and elected to the office of president

As a practitioner, Dr. Childs stood high in public estimation, both at home and abroad. For more than thirty years he was the only physician of note in the town; and this single fact strongly testifies to the un-common estimation in which he was held by those who were most competent to judge of his professional

CHI LI, BALSAMUM DE. Salmon speaks, but without any proof, of its being brought from Chili. The Barbadoes tar, in which are mixed a few drops of the oil

of aniseed, is usually sold for it.

Chilippy Namon. (Prom χείλοις, a thousand, and δυναμες, virtue.) In Dioscorides, this name is given on account of its many virtues. An epithet of the herb Polemoniam. Most probably the wood sage, Tenerium scorodonia of Linnæus.

Childenty Llon. (From χιλιοι, a thousand, and ψυλλον, a leaf, because of the great number of leaf-lets.) A name of the milfoil. See Achillea millefo-

Chi'LON. Χειλων. An inflamed and swelled lip. Childrela' συα. A variety of capsicum. Chime' theon. A chilblain.

CHI'MIA. See Chemistry.

CHIMAL SEE. (From Equica, chemistry, and tarpos, a physician.) A physician who makes the science of chemistry subservient to the purposes of medicine. CHIMO LEX LAXA. Paracelsus means, by this word,

the sublimed powder which is separated from the

flowers of saline ores.

CHINA. (So named from the country of China, from whence it was brought.) See Smilax China.
CHINA CHINE. A name given to the Peruvian

China spuria nodosa; Smi-CHINA OCCIDENTALIS. the pseudo-china; Smalar Indica spinosa; American or West-Indian China. This root is chiefly brought from Jamaica, in large round pieces full of knots. If serofilous disorders, it has been preferred to the orienta kind. In other cases it is of similar but interior

CHINA SUPPOSITA. See Senesio pseudochina.
CHINA SUPPOSITA. See Cinchona.
CHINCHI'NA. CARIBÆA. See Cinchona Caribæa.
CHINCHINA DE SANTA FE'. There are several species of bark sent from Santa Fé; but neither their particular natures, nor the trees which afford them, are yet accurately determined.

CHINCHINA JAMAICENSIS. See Cinchona Caribæa.
CHINCHINA RUBRA. See Cinchona oblong ifolia.
CHINCHINA DE ST. LUCIA. St. Lucia bark. See

Chindona floribanda.
CHINCOUGH. See Pertussis.
CHINE ASIS. See Citrus aurantum.
Chinese Smilaz. See Smilaz China.
Chin turpentine. See Pistacia terebinthus.
China Largentine.

Chront. In Paracelsus it is synonymous with fu-

CHIRA'GRA. (From xeip, the hand, and aypa, a seizure.) The gout in the joints of the hand.

CHIRO'NES. (From χειρ, the hand.) Small pustules on the hands and feet, enclosed in which is a troublesome worm.

CHIRO'NIA. (From Chiron, the Centaur, who discovered its use.) 1. The name of a genus of plants in the Linnwan system. Class, Pentandria; Order,

2. (From xeio, the hand.) An affi An affection of the

CHIRONIA CENTAURIUM. The systematic name of the officinal centaury. Centaurium minus vulgare; Contaurium parvum; Centaurium minus; Libadium; Chronia-corollis quinquefidis infundibuliformibus, cuale dichotomo, pistillo simplici, of Linnaus. This plant is justly estremed to be the most efficacious bitter of all the medicinal plants indigenous to this country. It has been recommended, by Cullen, as a substitute for gentian, and by several is thought to be a more useful medicine. The tops of the centaury plant are duceted for use by the colleges of London and Edin-burgh, and are most commonly given in infusion; but they may also be taken in powder, or prepared into

[CHRONIA ANGULARIS. See American centaury. A.] CHRONIA ANGULARIS. See American centaury. A.] Saidt to have been the first who healed them.) A ma-lignant ulcer, callous on its edges, and difficult to

CHIROTHE'CA. (From χειο, the hand, and τιθημι, to put.) A glove of the scartiskin, with the nails,

skill and success. He died on the 25th Feb. 1821, as he lived, honoured, respected, and lamented."—Th. der it.

Med. Biog. A.]

which is brought off from the dead subject, after the cutiele is looseated by putrefaction, from the parts under it.

oHIR'URGIA. (From  $\chi_{SIP_i}$  the hand, and egyov, a work; because surgical operations are performed by the hand.) Chrungery, or surgery.

Chron. Xerov. A coat, or membrane.
[Chron. Esc. Veganc relies. A.]

CHI ONLIE. See Organic relies. A.]
CHI OM. (From Xios, the island where it was produced.) An epithet of a wine made at Seio.
CHLIA'SMA. (From XALADVA. In make

CHLIA'SMA. (From χλιαινω, to make warm.) A warm fomentation.

(From χλωρος, green.) CHLORA'SMA.

CHLORATE. A compound of chloric acid with a

salitiable basis. CHLORIC ACID. Acidum chloricum. first eliminated from salts containing it by Gay Lussac, and described by him in his admirable memoir on iodine, published in the 91st volume of the Annales de Chimie. When a current of chlorine is passed for some time through a solution of barytic earth in warm water, a substance called hyperoxymuriate of barytes by ter, a sunstance carrier apperoxynhamace of partyes by its first discoverer, Chenevix, is formed, as well as some common muriate. The latter is separated, by boiling phosphate of silver in the compound, solution, in The former may then be obtained by evaporation, in the rhomboidal prisms. Into a dilute solution of this salt, Gay Lussac poured weak sulphuric acid. Though he added only a few dreps of acid, not nearly enough to saturate the baryles, the liquid became sensibly acid, and not a bubble of oxygen escaped. By continuing to add sulphuric acid with caution, he succeeded in obtaining an acid liquid entirely free from sulphuric acid and barytes, and not precipitating nitrate of silver. It was chloric acid dissolved in water. racters are the following.

This acid has no sensible smell. Its solution in water is perfectly colourless. Its taste is very acid and it reddens litmus without destroying the colour and it readens minus winnous descroying the colour try produces no alteration on solution of indigo in sulphuric acid. Light does not decompose it. It may be concentrated by a gentle heat, without undergoing decomposition, or without evaporating. It was kept a long time exposed to the air without sensible diminution of its quantity. When concentrated, it has sometime of its quantity. thing of an oily consistency. When exposed to heat, it is partly decomposed into oxygen and chlorine, and partly volatilized without alteration. Muriatic acid party voluntized without interaction. Muritatic acid decomposes it in the same way, at the common tem-perature. Sulphurous acid, and sulphuretted hydro-gen, have the same property; but nitric acid produces no change upon it. Combined with ammonia, it forms a fulminating salt, formerly described by M. Chenevix. It does not precipitate any metallic solution. It readily dissolves zinc, disengaging hydrogen; but it acts slowly on mercury. It cannot be obtained in the gaseous state. It is composed of 1 volume chlorine, +2.5 oxygen, or, by weight; of 100 chlorine, 111.70 oxygen, if we consider the specific gravity of chlorine to

2.5 oxygen, if, we consider the specific gravity of chlorine to be 2.4856.

To the preceding account of the properties of chloric acid, M. Vauqueim has added the following. Its taste is not only acid, but astringent, and its odonr, when concentrated, is somewhat pungent. It differs from chlorine, in not precipitating gelatine. When paper stained with litmus is left for some time in contact with it, the colour is destroyed. Mixed with muriatic acid, water is formed, and both acids are converted into chlorine. Sulphurous acid is converted into sulphuric, by taking oxygen from the chloric acid, which is consequently converted into chlorine

Chloric acid combines with the bases, and forms the Chloric acta combines with the bases, and torms collections, a set of salts formerly known by the name of the hyperoxygenated muriates. They may be formed either directly by saturating the alkali of earth with the chloric acid, or by the old process of transmitting chlorine through the solutions of the bases, in Wootle's bottles. In this case the water is decomwome somes. If this case the water is deciring posed. Its experiments to one portion of the chlorine, forming chloric acid, while its hydrogen unites to another portion of chlorine, forming muriatic acid, and hence, chlorates and muriates must be contemporarily to the chlorates and the chlorates are chlorates are chlorates and chlorates are chlorates are chlorates are chlorates are chlorates and chlorates are raneously generated, and must be afterward separated rancously generated and must be attrawant or by crystallization, or peculiar methods.

The chlorate of potassa or hyperoxymuriate, has been long known, and may be procured by receiving chlosure of the procured by the procu

CHL CHL

tine, as it is formed, into a solution of potassa. When the solution is saturated, it may be evaporated gently, and the first crystals produced will be the salt desired, this crystals produced at the same time with it. Its crystals are in shining hexaëdral lamina, or rhomboidal plates. It is soluble in 17 parts of cold water; and, but very spartnely, in alkohol. Its taste is cooling, and rather the produced at the same time with its crystals are in shining hexaëdral lamina, or cold water; and, but very spartnely, in alkohol. Its taste is cooling, and rather the produces much cold in solution, and has a sharp bitter taste. Chlorate of ammonia, which may be obtained by evaporation. It is specific practive is 20. 16 parts of passed by a moderate heat. this crystallizing before the simple muriate, which is produced at the same time with it. Its crystals are in shining hexacidal lamina, or rhomboidal plates. It is soluble in 17 parts of cold water; and, but very sparingly, in alkohol. Its taste is cooling, and rather unpleasant. Its specific gravity is 2.0. 16 parts of water, at 60°, dissolve one of it, and 23 of boiling water. The purest oxygen is extracted from this salt, by exposing it to a genule crd heat. One funded craims water. The purest oxygen is extracted from this sait, by exposing it to a gentle red heat. One hundred grains yield about 115 cutic inches of gas. It consists of 9.5 chloric acid+6 potassa=15.5, which is the prime equivalent of the sait.

The effects of this salt on inflammable bodies are very powerful. Rub two grains into powder in a mortar, add a grain of sulphur, mix them well by gentle morar, and a gram or suppur, mix them weil by genul trituration, then collect the powder into a heap, and press upon it suddenly and forcibly with the pestle, a loud detonation will ensue. If the mixture be wrapped in strong paper, and struck with a hummer, the report will be still louder. Five grains of the salt, mixed in the same manner with two and a half of charcoal, will be inflamed by strong trituration, especially if a grain or two of supplur be added, but without much noise. If a little sugat be mixed with half its weight of the chlorate, and a little strong sulphuric acid poured on it, a sudden and vehement inflanmation will ensue; but this experiment requires caution, as well as the following. To one grain of the powdered salt in a mortar, add half a grain of phosphorus; it will deto-nate, with a loud report, on the gentlest trituration. In this experiment the hand should be defended by a glove, and great care should be taken that none of the phosphorus get into the eyes. Phosphorus may be in-flamed by it under water, putting into a wine-glass one part of phosphorus and two of the chlorate, nearly filing the glass with water, and then pouring in, through a glass tube reaching to the bottom, three or four parts of sulphuric acid. This experiment, too, is very hazardous to the cyes. If olive or linseed oil be taken instead of phosphorus, it may be inflamed by similar means on the surface of the water. This salt should not be kept mixed with sulphur, or perhaps any inflammable substance, as in this state it has been known to detonate spontaneously. As it is the common effect of mixtures of this salt with inflammable sub-stances of every kind, to take fire on being projected into the stronger acids, Chenevix tried the experiment with it mixed with diamond powder in various proportions, but without success.

Chlorate of soda may be prepared in the same manner as the preceding, by substituting soda for potassa her as the preceaming, by souththing south for potassa; but it is not easy to obtain it separate, as it is nearly as soluble as the muriate of soda, requiring only 3 parts of cold water. Vauquelin formed it, by saturating chloric acid with soda; 500 parts of the dry carbonate yielding 1100 parts of crystallized chlorate. It consists of 4 soda, 9.5 acid=13.5, which is its prime equivalent.

of 4 soda, 9.5 acid=1.5., which is its prime equivalent. Iterystallizes in square plates, produces a sensation of cold in the mouth, and a saline taste; is slightly deliquescent, and in its other properties resembles the chlorate of potassa.

Barytes appears to be the next base in order of affinity for this acid. The best method of forming it is to pour hot water on a large quantity of this earth, and to pass a current of chlorine through the liquid kept warm, so that a fresh portion of barytes may be taken up as the former is saturated. This sait is soluble in about four parts of cold water, and less of warm, and crystallizes like the simple muriate. It may be obtained, however, by the agency of double affinity; for phosphate of silver boiled in the solution will decompose the simple muriate, and the muriate of silver compose the simple muriate, and the muriate of silver, and phosphate of barytes being insoluble, will both fall down and leave the chlorate in solution alone. The phosphate of silver employed in this process must be perfectly pure, and not the least contaminated with

Copper.
The chlorate of strontites may be obtained in the same manner. It is deliquescent, melts immediately in the mouth, and produces cold; is more soluble in alkohol than the simple muriate, and crystallizes in

The chlorate of lime, obtained in a similar way, is equal extremely deliquescent, liquenes at a low heat, is very self.

posed by a moderate heat.

The chlorate of magnesia much resembles that of

lime.

To obtain chlorate of alumina, Chenevix put some alumina, precipitated from the muriate, and well washed, but still moist, into a Woolfe's apparatus, and treated it as the other earths. The alumina shortly disappeared; and on pouring sulphuric acid into the liquor, a strong smell of chloric acid was perceivable; but on attempting to obtain the salt pure by means of phosphate of silver, the whole was decomposed, and nothing but chlorate of silver was found in the solution."

CHLORIC OXIDE. Deutoxide of chlorine. sulphuric acid is poured upon hyper-oxymuriate of potassa in a wite-glass, very little effervescence takes potassa in a wine-glass, very little chervescher chars place, but the acid gradually acquires an orange colour, and a dense yellow vapour, of a peculiar and not disagreeable smell, floats on the surface. These phenomena led Sir H. Davy to believe, that the substance extricated from the salt is held in solution by the acid. After various unsuccessful attempts to obtain this substance in a separate state, he at last succeeded by the following method: About 60 grains of the sall are triturated with a little sulphuric acid, just' sufficient to convert them into a very solid paste. This is put into a retort, which is heated by means of hot water. The water must never be allowed to become boiling hot, for fear of explosion. The heat drives off the new gas, which may be received over mercury. This new gas has a much more intense colour than euchlorine. It does not act on mercury. Water absorbs more of it then euchlorine. It stays is astripment. It destroys After various unsuccessful attempts to obtain this subit than euchlorine. Its taste is astringent. It destroys vegetable blues without reddening them. When phosvegetable bules without reddening them. When phosphorus is introduced into it, an explosion takes place. When heat is applied, the gas explodes with more violence, and producing more light than euchlorine. When thus exploded, two measures of it are converted into nearly three measures, which consist of a mixture of one measure chlorine, and two measures oxygen. Hence, it is composed of one atom chlorine and four atoms oxygen.

Deutoxide of chlorine has a peculiar aromatic odour, unmixed with any smell of chlorine. A little chlorine is always absorbed by the mercury during the explois always absorbed by the mercury during the explosion of the gas. Hence the small deficiency of the resulting measure is accounted for. At common temperatures none of the simple combistibles which Sir H. Davy tried, decomposed the gas, except phosphorus. The taste of the aqueous solution is extremely astringers and correcting leaving for a long while a term. The taste of the aqueous solution is extremely astrungent and corroding, leaving for a long while a very disagreeable sensation. The action of liquid nitric acid on the chlorate of potassa affords the same gas, and a much larger quantity of this acid may be safely employed than of the sulphuric. But as the gas must be procured by solution of the salt, it is always mixed with about one-fifth of oxygen."

CHLORIDE. A compound of chlorine with different hodges.

ferent hodies.

Perent nouses.

Chloride of azot. See Nitrogen.
CHLO'RINE. (So called from χλωρος, green, because it is of a green colour.) Oxygenated muriatic acid. "The introduction of this term, marks an era acid. "The introduction of this term, marks an era in chemical science. It originated from the masterly researches of Sir H. Davy on the oxymuriatic acid gas of the French school; a substance which, after resisting the most powerful means of decomposition which his sagacity could invent, or his ingenuity apply, he declared to be, according to the true logic of chemistry, an elementary body, and not a compound of muriatic acid and oxygen, as was previously imagined, and as its name seemed to denote. He accordingly assigned to it the term chlorine, descriptive of its colour; a name now generally used. The chloridic theory of combustion, though more limited in its applications to the chemical phenomena of nature, than the antiphlogistic of Lavoisier, may justly be regarded as of to the chemical phenomena of mature, than the anu-phlogistic of Lavoisier, may justly be regarded as of equal importance to the advancement of the science it-self. When we now survey the Transactions of the

Royal Society for 1808, 1809, 1810, and 1811, we fee! | it in contact with a body capable of uniting with the royal Society for 1995, 1999, 1810, and 1911, we recoverwhelmed with astonishment at the unparalleled skill, labour, and sagacity, by which the great English chemist, in so short a space, produgiously multiplied the objects and resources of the science, while he promulgated a new code of laws, flowing from views of elementary action, equally profound, original, and sub-lime. The importance of the revolution produced by lime. The importance of the revolution produced by his researches on chlorine, will justify us in presenting a detailed account of the steps by which it has been effected. How entirely the glory of this great work belongs to Sir II. Davy, notwritistanding some invidious attempts in this country to tear the well-earned faurel from his brow, and transfer it to the French chemists,

from his brow, and transfer it to the French chemists, we may readily judge by the following decisive facts.

The second part of the Phil. Trans. for 1809, contains researches on oxymuriatic acid, its nature and combinations, by Sir H. Davy, from which the following interesting extracts are taken.

In the Bakerian lecture for 1808, says he, 'I have

given an account of the action of potassium upon muriatic acid gas, by which more than one third of its volume of hydrogen is produced; and I have stated, that muriatic acid can in no instance be procured from oxymuriatic acid, or from dry muriates, unless water

or its elements be present.

b' In the second volume of the Mémoircs D'Arcueil, Gay Lussac and Thenard have detailed an extensive series of facts, upon muriatic acid, and oxymuriatic acid. Some of their experiments are similar to those acid. Some of their experiments are similar to mose a law edetailed in the paper just referred to; others are peculiarly their own, and of a very curious kind; their general conclusion is, that muriatic acid gas contains about one quarter of its weight of water; and that oxymuriatic acid is not decomposable by any substances but hydrogen, or such as can form triple combinations with it.

'One of the most singular facts that I have observed on this subject, and which I have before referred to, is, that charcoal, even when ignited to whiteness in oxymuriatic or muriatic acid gases, by the voltaic battery, effects no change in them, if it has been previously freed from hydrogen, by intense ignition in

'This experiment, which I have several times re-peated, led me to doubt of the existence of oxygen in that substance, which has been supposed to contain it, above all others, in a loose and active state; and to make a more rigorous investigation, than had hitherto

been attempted for its detection.

He then proceeds to interrogate nature, with every artifice of experiment and reasoning, till he finally ex-torts a confession of the true constitution of this mysterious nuriratic essence. The above paper, and his Bakerian lecture, read before the Royal Society in Nov. and Dec. 1810, and published in the first part of their Transactions for 1811, present the whole body of evidence for the undecompounded nature of oxymutratic acid gas, thenceforward styled chlorine; and they will be studied in every enlightened age and coun-try, as a just and splendid pattern of inductive Baconian logic. These views were slowly and reluctantly

man logic. These views were slowly and reluctantly admitted by the chemical philosophers of Europe.

In 1812, Sir H. Davy published his Elements of Chemical Philosophy, containing a systematic account of his new doctrines concerning the combination of simple bodies. Chlorine is there placed in the same rank with oxygen, and finally removed from the class of acids. In 1813, Thenard published the first volume of his Traité de Chimie Elèmentaire Théorique et Pratique. This distinguished chemist, the fellow-labourer of Gay Lussac in those able researches on the alkelies and expressions acid where the first in the contraction of the cont alkalies and oxymuriatic acid, which form the distinguished rivalry of the French school, to the brilliant career of Sir H. Davy, states, at p. 584, of the above volume, the composition of oxymuriatic acid as fol-

' Composition. The oxygenated muriatic gas contains the half of its volume of oxygen gas, not including that which we may suppose in muriatic acid. It thence folwhich we may suppose in furiante acid. It therefore acid, and lows, that it is formed of 1.9183 of muriatic acid, and 0.5517 of oxygen; for the specific gravity of oxygenated murinic gas is 2.47, and that of oxygen gas 1.034.—

'Chenevix first determined the proportion of its constituent principles. Gay Lussac and Thenard determined it more exactly, and showed that we could not decompose the oxygenated muriatic gas, but by putting

two elements of this gas, or with muriatic acid. They announced at the same time that they could explain all announced at the same time that they could explain all the phenomena which it presents, by considering it as a simple or as a compound body. However, this last opinion appeared more probable to them. Davy, on the contrary, embraced the first, admitted it exclusively, and sought to fortify it by experiments which are peculiar to him.' P. 585.

In the second volume of Thenard's work, published in 1814, he explains the mutual action of chloring and

In the second volume of Thenard's work, published in 1814, he explains the mutual action of chlorine and ammonia gases, solely on the oxygenous theory. On peut démontrer par ce dernier procédé, que le gas muriatique oxigéné, doit contenir la moitié de son muriatique oxigéné, doit contenir la moitié de son muriatique oxigéné, doit contenir la moitié de son motime d'origéne, uni à l'actide muriatique. P. 147.—In the 4th volume, which appeared in 1816, we find the following passages: 'Oxygenated muriatic gas, in Compining with the metals, gives rise to the neutral muriates. Now, 107.6 of oxide of silver, contain 7.6 of oxygen, and absorb 26.4 of muriatic acid, to pass to the state of neutral muriate. Of consequence, 348 of this last acid supposed dry, and 100 of oxygen, form this gas. But the sp. gr. of oxygen is 1.1034, and that of oxygenated muriatic gas is 2.47; hence, this contains the half of the force of Sir H. Davy's demonstrations, pressing in 1814, he explains the mutual action of chlorine and

The force of Sir H. Davy's demonstrations, pressing for six years on the public mind of the French philosophers, now begins to transpire in a note to the above passage. - 'We reason here,' says Thenard, 'obviously passage.— we reason here; says Thenard, 'obviously on the hypothesis, which consists in regarding oxygenated muriatic gas as a compound body.' This pressure of public opinion becomes conspicuous at the end of the volume. Among the additions, we have the following decisive evidence of the ingering attachment to the old theory of Lavoisier and Berthollet.—'A pretty considerable number of nervous who have a period. the old incory of Lavoisier and Bermonet.—A preny considerable number of persons who have subscribed for this work, desiring a detailed explanation of the phenomena which oxygenated muriatic gas presents. on the supposition that this gas is a simple body, we are now going to explain these phenomena, on this supposition, by considering them attentively. The oxygenated muriatic gas will take the name of chlorine; oxygenated muriatic gas will take the name of chlorine; its combinations with phosphorus, sulphur, axot, metals, will be called chlorures; the muriatic acid, which results from equal parts in volume of hydrogen and oxygenated muriatic gases, will be hydrochloric acid; the superoxygenated muriatic acid, will be chlorous acid; and the hyperoxygenated muriatic, chloric acid; the first, comparable to the hydriodic acid, and the last to the iodic acid. In fact, therefore, we evidently see, that so far from the chloridic theory criticalizing in France as has been more than insti originating in France, as has been more than insi-nuated, it was only the researches on iodine, so admirably conducted by Gay Lussac, that, by their auxiliary attack on the oxygen hypothesis, eventually opened the minds of its adherents to the evidence long ago advanced by Sir H. Davy. It will be peculiarly instructive, to give a general outline of that evidence, which has been mutilated in some systematic works on chemistry, or frittered away into fragments.

Sir H. Davy subjected oxymuriatic gas to the action of many simple combustiles, as well as metals, and from the compounds formed, endeavoured to eliminate oxygen, by the most energetic powers of affinity and voltaic electricity, but without success, as the following abstract will show.

If oxymuriatic acid gas be introduced into a vessel exhausted of air, containing tin, and the tin be gently the tendency of the control of the c owner of this organization of the damandiacal gas over mercury to a small quantity of the liquor of Libavius; it was absorbed with great heat, and no gas was generated; a solid result was obtained, which was of a dull white colour; some of it was heated, to ascertain if it contained oxide of tin; but the whole volatilized, producing dense pungent fumes.

Another experiment of the same kind, made with great care, and in which the ammonia was used in great excess, proved that the liquor of Libavius cannot be decompounded by ammonia; but that it forms a new combination with this substance.

He made a considerable quantity of the solid com-

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bustion, and saturated it with ammonia, by heating it in a proper receiver filled with ammoniacal gas, on which it acted with great energy, producing much heat; and they formed a white opaque powder. Supposing that this substance was composed of the dry muriates and phosphates of aumonia; as muriate of muriates and phosphates of ammona: as muriate of ammonia is very votatile, and as ammonia is driven off from phosphoric acid by a heat below redness, he conceived that, by igniting the product obtained, he should produce phosphoric acid; be therefore introduced some of the powder into a tube of green glass, and heated it to redness, out of the contact of air, by a spirit lamp; but found, to his great surprise, that it was not at all volatile, nor decomposable at this degree of freat, and that it gives off near-agency active.

of heat, and that it gave off no gaseous matter.

The circumstance, that a substance composed principally of oxymuriane acid, and ammonia, should resist decomposition or change at so high a temperature, induced him to pay particular attention to the proper-ties of this new body.

It has been said, and taken for granted by many themselves a said, and taken for granted by many chemists, that when oxymuriatic acid and ammonicated upon each other, water as formed i be several times made the experiment, and was convinced that this is

not the cas

He mixed together sulphurated hydrogen in a high degree of purity, and oxymuriatic acid gas, both dried, in equal volumes. In this instance the condensation m equal volumes. In this installer or contain a was not 1-40 b; subjury, which seemed to contain a fittle oxympriatic acid, was formed on the sides of the vessel; no vapour was deposited, and the residual gas contained about 19-20 the of muriatic acid gas, and the remainder was inflammable.

When oxymuriatic acid is acted upon by nearly an When oxymuratic acid is acted upon by nearly an equal volume of hydrogen, a combination takes place between them, and ministic acid gas iesults. When muratic acid gas iesults. When metal, the oxymuratic acid is attracted from the hydrogen by the stronger attimity of the metal, and an oxymuratic, exactly similar to that formed by combustion, is produced.

The action of water upon those compounds which have been usually considered as muriates, or as dry muritates, but which have been considered.

have been usually considered as muriates, or as dry muriates, but which are properly combinations of exymmitatic acid with inflammable bases, may be easily explained, according to these views of the subject. When water is added in certain quantities to Libavius's liquor, a solid crystallized mass is obtained, from which oxide of tin and muriate of ammonia can be procured by ammonia. In this case, oxygen may be conceived to be supplied to the tin, and hydrogen to the oxymuriatic acid.

The compound formed by burning phosphorus in oxymuriatic acid, is in a similar relation to water. If that substance be added to it, it is resolved into two powerful acids; oxygen, it may be supposed, is furnished to the phosphorus to form phosphoric acid, hydrogen to the oxymuriatic acid to form common muri-

atic acid gas.

He caused strong explosions from an electrical jar to pass through oxymuriatic gas, by means of points of platina, for several hours in succession; but it seemed

platina, for several nours in succession; but it seemed not to undergo the slightest change.

He electrized the oxymuriates of phosphorus and sulphine for some hours, by the power of the voltaic apparatus of 1000 double plates. No gas separated, but a minute quantity of hydrogen, which he was inclined to attribute to the presence of moisture in the apparatus employed; for he once obtained hydrogen from Libavius's liquor by a similar operation. But a secretained that this was owing to the decomposihe ascertained that this was owing to the decomposition of water adhering to the mercury; and in some late experiments made with 2000 double plates, in which the discharge was from platina wires, and in which the mercury used for confining the liquor was carefully boiled, there was no production of any pertion of water adhering to the mercury: and in some late experiments made with 2000 double plates, in which the discharge was from platina wires, and in which the mercury used for comining the liquor was carefully boiled, there was no production of any permanent elastic matter.

Few substances, perhaps, have less claim to be considered as acid, than oxymuriatic acid. As yet we have no right to say that it has been decompounded; and as its tendency of combination is with pure inflammable matters, it may possibly belong to the same class of bodies as oxygen.

May it not in fact be a peculiar acidifying and dissolving principle, forming compounds with combustible bodies, analogous to acids containing oxygen or oxides,

pound of oxymuriatic acid and phosphorus by come, in their properties and powers of combination; but didening from them, in being for the most part decom-posable by water? On this idea, muriafic acid may be considered as having hydrogen for its basis, and oxymuratic acid for its acidifying principle; and the phosphoric sublimate as having phosphorus for its basis, and oxymuriatic acid for its acidifying matter; and Libavius's Equor, and the compounds of arsenic with oxymuriatic acid, may be regarded as analogous bodies. The combinations of oxymuriatic acid with lead, silver, mercury, potassium, and sodium, in this view, would be considered as a class of bodies related more to oxides than acids, in their powers of attraction. -Bak. Lec. 1809.

On the Combinations of the Common Metals with Dzygen and Ozymuriatic Gas

Sir II. used in all cases small retorts of green glass, containing from three to six cubical inches, furnished with stop cocks. The metallic substances were introduced, the retort exhausted and filled with the gas to be acted upon, heat was applied by means of a spirit

lamp, and after cooling, the results were examined, and the residual gas analyzed.

All the metals that he tried, except silver, lead, nickel, cobait, and gold, when heated, burnt in the oxymuriatic gas, and the volatile metals, with flame Arsenic, antimony, tellurium, and zinc, with a white flame, mercury with a red flame. Tin became ignited to whiteness, and iron and copper to redness; tungsten to whiteness, and from and copper to reames; timpsten and managanese to dall redness; platina was scarcely acted upon at the heat of fusion of the glass. The product from mercury was corrosive sublimate. That from zinc was similar in colour to that from antimony, but was much less volatile.

Silver and lead produced horn-silver and horn-lead;

and bismuth, butter of bismuth.

In acting upon metallic oxides by oxymuriatic gas, he In acting upon metallic oxides by oxymuriatic gas, he found that those of lead, silver, tin, copper, antimony, bismuth, and tellurium, were decomposed in a heat below redness, but the oxides of the volatile metals more readily than those of the fixed ones. The oxides of cobalt and nickel were scarcely acted upon at a dull red heat. The red oxide of iron was not affected at a strong red heat, while the black oxide was readily decomposed at a much lower temperature; arsenical acid underwent no change at the greatest heat that could be given it in the glass retort, while the white oxide readily decomposed. In cases where oxygen was given off, it was found

In cases where oxygen was given off, it was found In cases whore oxygen was given off, it was found exactly the same in quantity as that which had been absorbed by the metal. Thus, two grains of red oxide of mercury absorbed 9-10hs of a cubical inch of oxymuriatic gas, and afforded 0.45 of oxygen. Two grains of dark olive oxide from calomel decomposed by potassa, absorbed about 94-100ths of oxymuriatic gas, and afforded 24-100ths of oxygen, and corrosive sub limate was produced in both cases.

In the decomposition of the writing oxide of size

In the decomposition of the white oxide of zinc. oxygen was expelled exactly equal to half the volume of the oxymurlatic acid absorbed. In the case of the decomposition of the black oxide of iron, and the white oxide of arsenic, the changes that occurred were of a very beautiful kind; no oxygen was given off in either case, but butter of arsenic and arsenical acid formed in one instance, and the ferruginous sublimate and red oxide of iron in the other.

General Conclusions and Observations, illustrated by Experiments.

Oxymuriatic gas combines with inflammable bodies, to form simple binary compounds; and in these cases, when it acts upon oxides, it either produces the expulsion of their oxygen, or causes it to enter into new combinations.

bases, such as dry lime or magnesia. Oxymuriatic | issue, which must be collected in the water-pneumatic gas, like oxygen, must be combined in large quantity with pecuhar inflammable matter, to form acid matter. In its umon with hydrogen, it instantly reddens the driest littmus paper, though a gaseous body. Contrary to acids, it expels oxygen from protoxides, and combines with peroxides.

When potassium is burnt in oxymuriatic gas, a dry compound is obtained. If potassium combined with oxygen is employed, the whole of the oxygen is expelled, and the same compound formed. It is contrary to sound logic to say, that this exact quantity of oxygen is given off from a body not known to be compound, when we are certain of its existence in another; and all the cases are parallel.

Scheele explained the bleaching powers of the oxy-muriatic gas, by supposing that it destroyed colours by combining with phlogiston. Berthollet considered it as acting by supplying oxygen. He made an experiment, which seems to prove that the pure gas is in-capable of altering vegetable colours, and that its operation in bleaching depends entirely upon its property of

that in deaching depends entary spot is properly of decomposing water, and liberating its oxygen. He filled a glass globe, containing dry powdered mu-riate of lime, with oxymuriatic gas. He introduced some dry paper tinged with litmus that had been just heated, into another globe containing dry muriate of lune: after some time this globe was exhausted, and then connected with the globe containing the oxymu-riatic gas, and by an appropriate set of stop-cocks, the paper was exposed to the action of the gas. No change colour took place, and after two days there was scarcely a perceptible alteration.

Some similar paper dried, introduced into gas that had not been exposed to muriate of lime, was instantly

rendered white

It is generally stated in chemical books, that oxymuriatic gas is capable of being condensed and crystal-lized at a low temperature. He found by several ex-neriments that this is not the case. The solution of periments that this is not the case. The solution of oxymuriatic gas in water freezes more readily than pure water, but the pure gas dried by muriate of lime undergoes no change whatever, at a temperature of 40 below 0° of Fahrenheit. The mistake seems to have arisen from the exposure of the gas to cold in bottles containing moisture.

Containing moisture.

He attempted to decompose boracic and phosphoric acids by oxymuriatic gas, but without success; from which it seems probable, that the attractions of boracium and phosphorus for oxygen are stronger than for oxymuriatic gas. And from the experiments already detailed, fron and arsenic are analogous in this re-

spect, and probably some other metals.

Potassium, sodium, calcium, strontium, barium, zinc, mercury, tin, lead, and probably silver, antimony, and gold, seem to have a stronger attraction for oxy

muriatic gas than for oxygen.

To call a body which is not known to contain oxygen, and which cannot contain muriatic acid, oxymuriatic acid, is contrary to the principles of that nomen-clature in which it is adopted; and an alteration of it seems necessary to assist the progress of discussion, and to diffuse just ideas on the subject. If the great discoverer of this substance had signified it by any simple name, it would have been proper to have recurred to it; but dephlogisticated marine acid is a term which can hardly be adopted in the present advanced era of

'After consulting some of the most eminent chemical philosophers in this country, it has been judged most proper to suggest a name founded upon one of its obvious and characteristic properties-its colour, and to

call it chlorine or chloric gas.

'Should it hereafter be discovered to be compound, and even to contain oxygen, this name can imply no error, and cannot necessarily require a change.

'Most of the salts which have been called muriates,

are not known to contain any muriatic acid, or any oxygen. Thus Libavius's liquor, though converted into a muriate by water, contains only tin and oxymutiatic gas, and horn-silver seems incapable of being converted into a true muriate. —Bak. Lec. 1811.

We shall now exhibit a summary view of the preparation and properties of chlorine.

Mix in a mortar 3 parts of common salt and 1 of black oxide of manganese. Introduce them into a glass retort, and add 2 parts of sulphuric acid. Gas will

trough. A gentle heat will favour its extrication. In practice, the above pasty-consistenced mixture is apt pacetter, the above pasty-consistence and ture is an it boil over into the neck. A mixture of liquid matitatic acid and manganese is therefore more convenient for the production of chlorine. A very slight heat is adequate to its expulsion from the retort. Instead of manganese, red oxide of mercury, or puce-schanged exident flows have been replaced.

stead of manganese, red oxide of mercury, or pucccoloured oxide of lead, may be employed.

This gas, as we have already remarked, is of a
greenish yellow-colour, easily recognised by daylight,
but scarcely distinguishable by that of candles. Its
odour and taste are disagreeable, strong, and so characteristic, that it is impossible to mistake it for any
other gas. When we breathe it, even much diluted other gas. When we breathe it, even much diluted with air, it occasions a sense of strangulation, constriction of the thorax, and a copious discharge from the nostrils. If respired in larger quantity, its excites violent coughing, with spitting of blood, and would speedily destroy the individual, amid violent distress. Its specific gravity is 2.4733. This is better inferred from the specific gravities of hydrogen and muriatic acid gases, than from the direct weight of chlorine, from the impossibility of confinging it over mercury. from the impossibility of confining it over mercury. from the impossibility of confining it over mercury. On volume of hydrogen, added to one of chlorine, form two of the 2cid gas. Hence, if from twice the specific gravity of muriatic gas=2.5427, we subtract that of hydrogen=0.0634, the difference 2.4733 is the sp. gr. of chlorine. 100 cubic inches at mean pressure and temperature weigh 75½ grains. See Gas.

In its perfectly dry state, it has no effect on dry vegetable colours. With the aid of a little moisture, it bleaches them into a yellowish-white. Scheele first bleaches them into a yellowish-white. Scheele first

remarked this bleaching property; Berthollet applied it to the art of bleaching in France; and from him Mr. Watt introduced its use into Great Britain.

If a lighted wax taper be immersed rapidly into this If a lighted wax taper or immersed rapidly into this gas, it consumes very faist, with a dull reddish flame, and much smoke. The taper will not burn at the surface of the gas. Hence, if slowly introduced, it is apt to be extinguished. The alkaline metals, as well as copper, tin, arsenic, zinc, antimony, in fine lamine or filings, spontaneously burn in chlorine. Metallic chlorides result. Phosphorus also takes fire at ordinary temperatures, and is converted into a chloride. Sulphur may be melted in the gas without taking fire, It forms a liquid chloride, of a reddish colour. When

It forms a liquid chloride, of a reddish colour. When dry, it is not altered by any change of temperature. Enclosed in a phial with a little moisture, it concretes into crystalline needles, at 40° Fahr.

According to Thenard, water condenses, at the temperature of 68° F. and at 29.92 baron. 11-2 times its volume of chlorine, and forms aqueous chlorine, formerly called liquid oxymuriatic acid. This combination is best made in the second bottle of a Woolfe's approaches the first being phayed with a little water of paratus, the first being charged with a little water, to paratus, the first being charged with a little water, to intercept the muriatic acid gas, while the third bottle may contain potassa-water or milk of lime, to condense the superfluous gas. Thenard says, that a kilogramme of salt is sufficient for saturating from 10 to 12 litres of water. These measures correspond to 2 1-3 lbs, avoirdupois, and to from 21 to 25 pints English. There is an inventious paragraphy for making 2 1-3 bs. avoirdupois, and to from 21 to 25 pints English. There is an ingenious apparatus for making aqueous chlorine, described in Berthollet's Elements of Dying, vol. i.; which, however, the happy substitution of slacked lime for water, by Mr. Charles Tennant, of Glasgow, has superseded, for the purposes of manufacture. It congeals by cold at 409 Fahr. and affords crystallized plates, of a deep yellow, containing a less proportion of water than the liquid combination. Hence when chlorine is passed into water at temperatures under 40°, the liquid finally becomes a concrete mass, which at a gentle heat liquefies with effervescence, from the escape of the excess of chlorine. When steam and chlorine are passed together through effervescence, from the escape of the excess of chlorine. When steam and chlorine are passed together through a red-hot porcelain tube, they are converted into muriatic acid and oxygen. A like result is obtained by exposing aqueous chlorine to the solar rays: with this difference, that a little chloric acid is formed. Hence aqueous chlorine should be kept in a dark place. Aqueous chlorine attacks almost all the netals at an explanary temperature, forming murigites or chloride. Aqueous enforme attacks at most all the metals at an ordinary temperature, forming nurriates or chlorides, and heat is evolved. It has the smell, taste, and colour of chlorine; and acts, like it, on vegetable and animal colours. It taste is somewhat astringent, but not in the least degree acidulous. When we put in a perfectly dark place, at the ordi-

nary temperature, a mixture of chlorine and hydrozen. nary temperature, a mixture of chionine and hydrogen, it experiences no kind of alteration, even in the space of a great many days. But if, at the same low temperature, we expose the mixture to the diffuse light of day, by degrees the two gases enter into chemical combination, and form muriatic acid gas. There is no change in the volume of the mixture, but the change of its nature may be proved, by its rapid absorbability by water, its not exploding by the lighted taper, and the disappearance of the chlorine hue. To produce the complete discoloration, we must expose the mixture finally for a few minutes to the sunbeam. If exposed at first to this intensity of light, it explodes with great violence, and instantly forms muriatic acid gas. The same explosive combination is produced by the electric spark and the lighted taper. Thenard says, a heat of 3920 is sufficient to cause the explosion. The proper proportion is an equal volume of each gas. Chlorine and nitrogen combine into a remarkable detonating compound, by exposing the former gas to a solution of an ammoniacal sait. Chlorine is the most powerful agent for destroying contagious miasmata. The disinfecting phials of Morveau evolve this gas."

—Ure.

CHLORITE A mineral ways as Chlorible or volve. it experiences no kind of alteration, even in the space

CHLORITE. A mineral usually friable or very easy to pulverize, composed of a multitude of little spangles, or shining small grains, falling to powder under the pressure of the fingers. There are four sub-

1. Chlorite carth. In green, glimmering, and somewhat pearly scales, with a shining green streak.

2. Common chlorite. A massive mineral of a black-ish-green colour, a shining lustre, and a foliated fracture passing into earthy.

3. Chlorite slate. A massive, blackish-green mineral, with a resinous lustre, and curve slaty or scaly-

foliated fracture.

4. Foliated chlorite. Colour between mountain and

blackish-green.
CHLORIODATE. A compound of the chloriodic acid with a salifiable basis.
CHLORIODE ACID. Acidum chloriodicum. See

Chloriodic acid.

CHLORIODIC ACID. Acidum chloriodicum.
Chloriode acid. Sir H. Davy formed it, by admitting chlorine in excess to known quantities of iodine, in vessels exhausted of air, and repeatedly heating the sublimate. Operating in this way, he found that iodine absorbs less than one-third of its weight of chlorine.

Chloriodic acid is a prographical substance formed

Chloriodic acid is a very volatile substance, formed by the sublimation of iodine in a great excess of chloby the sublimation of iodine in a great excess of chlorine, is of a bright yellow colour; when fused it becomes of a deep orange, and when rendered clastic, it forms a deep orange-coloured gas. It is capable of combining with much iodine when they are heated together; its colour becomes, in consequence, deeper, and the chloriodic acid and the iodine rise together in the clastic state. The solution of the chloriodic acid in water, likewise dissolves large quantities of iodine, so that it is possible to obtain a fluid containing very different proportions of iodine and chlorine.

When two bodies so similar in their characters, and in the compounds they form as iodine and chlorine, act

in the compounds they form, as iodine and chlorine, act upon substances at the same time, it is difficult, Sir H. observes, to form a judgment of the different parts that they play in the new chemical arrangement produced. It appears most probable, that the acid property of the chloriodic compound depends upon the combination of the two bodies; and its action upon solutions of the lakalies and the earths may be easily explained, when it is considered that chlorine has a greater tendency than iodine to form double compounds with the metals, and that iodine has a greater tendency than chlorine to form triple compounds with oxygen and

A triple compound of this kind with sodium may exist in sea water, and would be separated with the first crystals that are formed by its evaporation. Hence, it may exist in common salt. Sir H. Davy ascertained, by feeding birds with bread soaked with water, holding some of it in solution, that it is not poisonous like iodine itself:—Ure's Ch. Diet.

CHLORO-CARBONOUS ACID. "The term chloro-carpoing which has been given to this compound."

chloro-carbonic which has been given to this compound is incorrect, leading to the belief of its being a com-pound of chlorine and acidified charcoal, instead of being a compound of chlorine and the protoxide of 218

charcoal. Chlorine has no immediate action on carcharcoal. Chlorine has no immediate action on car-bonic oxide, when they are exposed to each other in common daylight over mercury: not even when the electric spark is passed through them. Experiments made by Dr. John Davy, in the presence of his brother Sir H. Davy, prove that they combine rapidly when exposed to the direct solar beams, and one volume of each is condensed into one volume of the compound. The resulting gas possesses very curious properties, approaching to those of an acid. From the peculiar potency of the sunbeam in effecting this combination, Dr. Davy called it phosgene gas. The constituent gases, dried over muriate of lime, ought to be introgases, aried over inditate or lime, ought to be intro-duced from separate reservoirs into an exhausted globe, perfectly dry, and exposed for fifteen minutes to bright sunshine, or for twelve hours to daylight. The colour of the chlorine disappears, and on opening the stop-cock belonging to the globe, under mercury re-cently boiled, an absorption of one-half the gaseous volume is indicated. The resulting gas possesses properties perfectly distinct from those belonging to either carbonic oxide or chlorine.

It does not fume in the atmosphere. Its odour is different from that of chlorine, something like that which might be imagined to result from the smell of chlorine combined with that of ammonia. It is in fact more intolerable and suffocating than chlorine itself, and affects the eyes in a peculiar manner, producing a rapid flow of tears, and occasioning painful

It reddens dry litmus paper; and condenses four volumes of ammonia into a white salt, while heat is evolved. This ammoniacal compound is neutral, has evolved. This ammoniacal compound is neutral, has no odour, but a pungent saline taste; is deliquescent, decomposable by the liquid mineral acids, dissolves without effervescing in vinegar, and sublimes unaltered in muriatic, carbonic, and sulphurous acid gases. Sulphuric acid resolves itself into carbonic and gases. Supporte acta resolves itself into Carbonic and muriatic acids, in the proportion of two in volume of the latter, and one of the former. Tin, zinc, anti mony, and arsente, heated in chloro-carbonous acid, abstract the chlorine, and leave the carbonic oxide expanded to its original volume. There is neither ignition nor explosion takes place, though the action of the metals is rapid. Potassium acting on the compound gas produces a solid chloride and charcoal. White oxide of zinc, with chloro-carbonous acid, gives a metallic chloride, and carbonic acid. Neither gives a hereant canonic, and carbonic actd. Neither sulphur, phosphorus, oxygen, nor hydrogen, though aided by heat, produce any change on the acid gas. But oxygen and hydrogen together, in due propor-tions, explode in it; or mere exposure to water con-verts it into muriatic and carbonic acid gases.

verts to into murate and caroonic acts gases.

From its completely neutralizing ammonia, which carbonic acid does not; from its separating carbonic acid from the subcarbonate of this alkali, while itself is not separable by the acid gases or acetic acid, and its reddening vegetable blues, there can be no hesitation in pronouncing the chloro-carbonous compound to be an acid. Its saturating powers indeed surpass every other substance. None condenses so large a proportion of ammonia.

One measure of alkohol condenses twelve of chloro-

One measure of alkohol condenses twelve of chloro-carbonous gas without decomposing it; and acquires the peculiar odour and power of affecting the eyes.

To prepare the gas in a pure state, a good air-pump is required, perfectly tight stop-cocks, dry gases, and dry vessels. Its specific gravity may be inferred from the specific gravities of its constituents, of which it is the sum. Hence 2.4733 + 0.9732 = 3.4455, is the specific gravity of chloro-carbonous gas; and 100 cubic inches weigh 105.15 grains. It appears that when hydrogen, carbonic oxide, and chlorine, mixed in equal volumes, are exposed to light, muriatic and chloro-carbonous acids are formed, in equal proportions, indicating an equality of affinity.

chloro-caronous acus are formed, in equal propor-tions, indicating an equality of affinity.

The paper in the Phil. Trans. for 1812, from which the preceding facts are taken, does honour to the school of Sir H. Davy. Gay Lussac and Thenard, as well as Dr. Murray, made controversial investigations on the subject at the same time, but without success. Thesubject at the same time, out without success. Thenard has, however, recognised its distinct existence and properties, by the name of carbo-muriatic acid, in the 2d volume of his System, published in 1814, where he considers it as a compound of muriatic and carbonic acids, resulting from the mutual actions of the ozygenated muriatic acid and carbonic oxide."- Ure.

cum. Chloroprussic acid. "When hydrocyanic is mixed with chlorine, it acquires new properties. odour is much increased. It no longer forms prussian blue with solutions of iron, but a green precipitate, which becomes blue by the addition of sulphurous acid. Hydrocyanic acid, thus altered, had acquired the name of oxyprussic, because it was supposed to have acquired oxygen. Gay Lussac subjected it to a minute recipied to the comment of the comments minute examination, and found that it was a comminute examination, and found that it was a com-pound of equal volumes of chlorine and cyanogen, whence he proposed to distinguish it by the name of chlorocyanic acid. To prepare this compound, he passed a current of chlorine into solution of hydrocyanic acid, till it destroyed the colour of sulphate of innic acid, till it destroyed the colour of sulphate of indigo; and by agitating the liquid with mercury, he deprived it of the excess of chlorine. By distillation, afterward, in a moderate heat, an elastic fluid is diseagaged, which possesses the properties formerly assigned to ozyprussic acid. This, however, is not pure chlorocyanic acid, but a mixture of it with carbonic acid, in proportions which vary so much as to make it difficult to determine them.

When hydrocyanic acid is supersaturated with chlorine, and the excess of this last is removed by mercury. rine, and the excess of this last is removed by mercury, the liquid contains chlorocyanic and muriatic acids. Having put mercury into a glass jar until it was 3-4ths full, he filled it completely with that acid liquid, and inverted the jar in a vessel of mercury. On exhausting the receiver of an air-pump, containing this vessel, the mercury sunk in the jar, in consequence of the clastic fluid disengaged. By degrees, the liquid itself was entirely expelled, and swam on the mercury on the outside. On admitting the air, the liquid could not enter the tube, but only the mercury, and the whole elastic fluid condensed, except a small bubble. Hence it was concluded, that chlorocyanic acid was not a nermanent gas, and that, in order to remain not a permanent gas, and that, in order to remain gaseous under the pressure of the air, it must be mix-

ed with another gaseous substance

The mixture of chlorocyanic and carbonic acids has the following properties. It is colourless. Its smell is very strong. A very small quantity of it irritates the pituitory membrane, and occasions tears. the pitutory memorane, and occasions tears. It reddens litmus, is not inflammable, and does not detonate
when mixed with twice its bulk of oxygen or hydrogen. Its density, determined by calculation, is 2.111.
Its aqueous solution does not precipitate mitrate of
silver nor barytes water. The alkalies absorb it rapidly, but an excess of them is necessary to destroy its
odour. If we then add an acid, a teron efferarease. pidly, but an excess of them is necessary to destroy its odour. If we then add an acid, a strong effervescence of carbonic acid is produced, and the odour of chlorocyanic acid is no longer perceived. If we add an excess of lime to the acid solution, ammonia is disengaged in abundance. To obtain the green precipitate from solution of iron, we must begin by mixing chlorocyanic acid with that solution. We then add a little potassa, and at last a little acid. If we add the alkali before the iron, we obtain no green precipitate. (Thorocyanic acid exhibits with potassium almost the same phenomena as cyanogen. The inflammation is equally slow, and the gas diminishes as much in

is equally slow, and the gas diminishes as much in volume."—Ure.

CHLOROPHANE. A violet fluor spar, found in

CHLOROPHILE. The name lately given by Pelletter and Caventou to the green matter of the leaves of plants. They obtain it by pressing, and then washing in water, the substance of many leaves, and afterward treating it with alkohol. A matter was disward treating it with alkohol. A matter was dis-solved, which, when separated by evaporation, and solved, which, when separated by evaporation, and purified by washing in hot water, appeared as a deep-green resinous substance. It dissolves entirely in alkohol, ather, oils, or alkalies; it is not altered by exposure to air; it is softened by heat, but does not melt; it burns with flame, and leaves a bulky coal. Hot water slightly dissolves it. Acetic acid is the only acid that dissolves it in great quantity. If an earthy or metallic salt be mixed with the alkoholic solution, and then alkalic or alkaling subcarporate he added the estable of mixed with the alkoholic solution, and en alkalio subcarbonate be added, the length of the green substance, forming a lake. These kes appear moderately permanent when exposed to be apeculiar proximate funciple.

This gas must be collected and examined with much of the green substance, forming a lake. These kes appear moderately permanent when exposed to be a peculiar proximate funciple.

This gas must be collected and examined with much with a substance, and in very small quantities. A gentle heat, even that of the hand, will cause its explosion, with such force as to burst thin glass. From this facility of decomposition, it is not easy to ascertain the action of CHLORO'SIS. (From  $\chi \lambda \omega \rho o_5$ , green, pale; from then alkali or alkaline subcarbonate be added, the oxide or earth is thrown down in combination with much of the green substance, forming a lake. These lakes appear moderately permanent when exposed to the air. It is supposed to be a peculiar proximate

principle.
CHLOROPRUSSIC ACID. See Ohlorocyanic acid.

CHLOROCYANIC ACID. Acidum chloro-cyanic acid. When hydrocyanic acid mixed with chlorine, it acquires new properties. Its greenish look those have who are affected with to-Febris alba; Febris amatoria; Icterus albus; Culo-rasma. The green-sickness. A genus of disease in the class Cachezia, and order Impetigines of Cullen. It is a disease which affects young females who labour the class Cachezia, and order Impetigence of Uniter. It is a disease which affects young females who labour under a retention or suppression of the menses. Heaviness, listlessness to motion, fatigue on the least exercise, palpitations of the heart, pains in the back, loins, and hips, flattlency, and acidities in the stomach and bowels, a preternatural appetite for chalk, lime, and various other absorbents, together with many dyspeptic symptoms, usually attend on this disease. As it advances in its progress, the face becomes pale, or assumes a yellowish hue; the whole body is flaccid, and likewise pale; the feet are affected with edematous swellings; the breathing is much hurried by any considerable exertion of the body; the pulse is quick, but small; and the person is apt to be affected with many of the symptoms of hysteria. To procure a flow of the menses, proves in some cases a very difficult matter; and where the disease has been of long standing, various morbid affections of the viscera are often brought on, which at length prove fatal. Dissections ing, various morbud affections of the viscera are often brought on, which at length prove fatal. Dissections of those who have died of chlorosis, have usually shown the ovaria to be in a scirrhous, or dropsical state. In some cases, the liver, spleen, and mesenteric glands, have likewise been found in a diseased state.

The cure is to be attempted by increasing the tone of the system, and exciting the action of the uterine vessels. The first may be effected by a generous nuvessels. The first may be effected by a generous nutritive diet, with the moderate use of wine; by gentle and daily exercise, particularly on horseback; by agreeable company, to amuse and quiet the mind; and by tonic medicines, especially the preparations of iron, joined with myrrh, &c. Bathing will likewise help much to strengthen them, if the temperature of the bath he made gradually lower, as the patient bears it; and sometimes drinking the mineral chalybeate waters may assist. The bowels must be kept regular, and ters may assist. The bowels must be kept regular, and occasionally a gentle emetic will prepare for the tonic plan. The other object of stimulating the uterine vessels may be attained by the exercises of walking and dancing; by frequent friction of the lower extremities; by the pediluvium, hip-bath, &c.; by electric shocks, passed through the region of the uterus; by active purgatives, especially those formula containing aloes, which acts particularly on the rectum. These means purgatives, especially those formula containing aloes, which acts particularly on the rectum. These means may be resorted to with more probability of success, when there appear efforts of the system to produce the discharge, the general health having been previously improved. Various remedies have been dignified with discharge, the general health naving oeen previously improved. Various remedies have been dignified with the title of emmenagogues, though moutly little to be depended on, as madder, &c. In obstinate cases, the inctura lytte, or savine, may be tried, but with proper caution, as the most likely to avail.

CHLORUS ACID. Acidum chlorosum. See

Chlorous oxide.
CHLOROUS OXIDE. Euchorine. Protoxide of chlorine. "To prepare it, put chlorate of potassa into a small retort, and pour in twice as much muriatic acid as will cover it, diluted with an equal volume of water. By the application of a gentle heat, the gas is evolved. It must be collected over mercury.

evolved. It must be collected over mercury.

Its thit is much more lively, and more yellow than chlorine, and hence its discoverer named it euchlorine. Its smell is peculiar, and approaches to that of burnt sugar. It is not respirable. It is soluble in water, to which it gives a lemon colour. Water absorbs 8 or 10 times its volume of this gas. Its specific gravity is to that of common air nearly as 2.40 to 1; for 100 cubic inches weigh, according to Sir H. Davy, between 74 and 75 grains. If the compound gas result from 4 volumes of chlorine + 2 of oxygen, weighing 12.1154, which undergo a condensation of one-sixth, then the specific gravity comes out 2.423, in accordance with Sir H. Davy's experiments. He found that 50 measures detonated in a glass tube over pure mercury, lost sures detonated in a glass tube over pure mercury, lost

CHO CHO

burn in chlorine act upon this gas at common temperatures; but when the oxygen is separated, they then inflame in the clorine. This may be readily exhibited. inflanie in the ctorme. This may be readily extended by first introducing into the protoxide a little Dutch foil, which will not be even tarnished; but on applying a heated glass tube to the gas in the neek of the bottle, decomposition instantly takes place, and the foil burns with brilliancy. When already in chemical union, therefore, chlorine has a stronger attraction for oxygen than for metals; but when insulated, its affinity for the latter is predominant. Protoxide of chlorine has no action on mercury, but chlorine is rapidly condensed by this metal into calomel. Thus, the two gases may be completely separated. When phosphorus is introduced into the protoxide, it instantly burns, as it would do in a mixture of two volumes of chlorine and one of oxygen; and a chloride and acid of phosphorus result. Lighted taper and burning sulphur likewise instantly decompose it. When the protoxide, freed from water, is made to act on dry ve-getable colours, it gradually destroys them, but first gives to the blues a tint of red; from which, from its absorbability by water, and the strongly acrid taste of the solution approaching to sour, it may be considered as approximating to an acid in its nature."—Ure.

Chlorure of iodine. The chloriodic acid.

CHNUS. (From χναυω, to grind; or rasp.) 1. Chaff;

2. Fine wool, or lint, which is, as it were, rasped from lint.

Cho'ana. (Χοανα, a funnel; from χεω, to out.)
1. A funnel.
2. The infundibulum of the kidney and brain. (Xoava, a funnel; from χεω, to pour

Cho'ANUS. A furnace made like a funnel, for melt-

CHO'COLATE. (Dr. Alston says this word is compounded of two Indian words, choco, sound, and atte, water; because of the noise made in its prepara tion.) An article of diet prepared from the cacao-nut; highly nourishing, particularly when boiled with milk and eggs. It is frequently recommended as a restoraand eggs. tive in cases of emaciation and consumption. See

Theobroma cacao.

Theobroma cacao.

the tree. Sec Theobroma cacao.

Chernicis. (From Xoruxis, the nave of a wheel.)
The trepan; so called by Galen and P. Ægineta.

CHE'RADES. (From X01005, a swine.) The same as serofula.

as serofula. Cherapole Thron. (From χοιρος, a swine, and ολεθρος, destruction; so named from its being dangerous it eaten by hogs.) Hogbane. A name in Actus for the Χααικίαμα, or fouse-bur. ·
CHOTRAS. (From χοιρος, a swine; so called because hogs are diseased with it.) See Scrofula. Choke damp. The name given by miners to a nox-

ious air, which is now known to be carbonic acid gas, found in mines, wells, and mineral springs. See Carbonic acid.

(From χολη, the bile.) So the smaller C'HO'LADES. intestines are called, because they contain bile. CHOLÆUS. (Xolatos, bilious.) Biliary.

CHOLAGO GA. (From χολη, bile, and αγω, to evacuate.) Cholegon. By cholagogues, the ancients meant only such purging medicines as expelled the internal faces, which resembled the cystic bile in their

vellow colour, and other properties.

Cho'LAS. (From Xohn, the bite.) Cholago. All the cavity of the right hypochondrium, and part of the neighbourhood, is so called because it contains the

CHOLE Xo $\lambda\eta$ . The bile. CHOLE DOCHUS. (From  $\chi o \lambda \eta$ , bile, and  $\tilde{c} \varepsilon \chi o \mu a \iota$ , to receive; receiving or retaining the gall.) The receptacle of bile.

CHOLEDOCHUS DUCTUS. Ductus communis chole-dochus. The common biliary duct, which conveys both cystic and hepatic bile into the intestinum duodenum.

denum.

CHOLE GON. See Cholagoga.

CHOLERA. (Celsus derives it from χολη, and μεω, literally a flow of bile, and Trallian, from χολας, and μεω, intestinal flux.) Diarrhea cholerica; Fellifika passio. A genus of disease arranged by Cullen in the class Neuroses, and order Spasm. It is a purging and vomiting of bile, with auxiety, painful gripings, according to the control property of the spasms of the abdominal muscles, and those of the

calves of the legs. There are two species of this genus:-1. Cholera spontanca, which happens, in hot seasons, without any manifest cause. accidentalis, which occurs after the use of food that digests slowly, and irritates. In warm climates it is met with at all seasons of the year, and its occurrence sact with it all sensons of the year, and its occurrence is very frequent; but in England, and other coil climates, it is apt to be most prevalent in the middle of summer, particularly in the month of August; and the violence of the disease has usually been observed to be greater in proportion to the intensences of the heat. It usually comes on with soreness, pain, distension, and flatulency in the stomach and intestines, succeeded quickly by a severe and frequent vomiting, and purging of bilious matter, heat, thirst, a hurried respiration, and frequent but weak and fluttering pulse. When the disease is not violent, these symptoms, after continuing for a day or two, cease gradually, leaving the patient in a debilitated and exhausted state; but where the disease proceeds with much violence, there arises great depression of strength, with cold clammy sweats, considerable anxiety, a hurried and short respiration, and hiccups, with a sinking, and irregularity of the pulse, which quickly terminate in death; an event that not unfrequently happens

within the space of twenty-four hours.

The appearances generally observed on dissection are, a quantity of bilious matter in the prime vie; the duets of the liver relaxed and distended; and seventher the second of the liver relaxed and distended; and seventher the second of the liver relaxed and distended; and seventher the second of the liver relaxed and distended; and seventher the second of the liver relaxed and distended; and seventher the second of the liver relaxed and distended; and seventher the second of the liver relaxed and distended; and seventher the second of the liver relaxed and distended; and seventher the second of the liver relaxed and distended in the liver relaxed and distended ral of the viscera have been found displaced, probably by the violent vomiting. In the early period of the disease, when the strength is not much exhausted, the object is to lessen the irritation, and facilitate the disobjects to ressent the intraction, and administration charge of the bile, by tepid demulcent liquids, frequently exhibited. It will likewise be useful to procure a determination to the surface by fomentations to the abdomen, the pediluvium, or even the warm bath. andomen, the penjulvium, or even the warm bath. But where the symptoms are urgent, and the patient appears rapidly sinking from the continued vomiting, violent pain, &c. it is necessary to give opium freely, but in a small bulk; from one to three grains, or even more, in a table spoonful of linseed infusion, or with an effervescing saline draught; which must be repeated at short intervals, every hour perhaps, till relief be obtained. Sometimes, where the stomach could not be got to retain the opium, it has answered in the form of clyster; or a liniment containing it may be rubbed into the abdomen; or a blister, applied over the stomach, may lessen the irritability of that organ. Afterward the bile may be allowed to evacuate itself downwards; or mild aperients, or clysters, given, if necessary, to promote its discharge. When the urgent symptoms are relieved, the strength must be restored by gentle tonics, as the aromatic bitters, calumba, and like, with a light nutritious diet: strong toast and water is the best drink, or a little burnt brandy may be added if there is much langour. Exposure to cold must be carefully avoided, particularly keeping the abdomen and the feet warm; and great attention is discharge of bile, lest a relapse should happen. It will also be proper to examine the state of the abdomen, also be proper to examine the state of the abdomen, whether pressure give pain at any part, because inflammation in the prime viae is very liable to supervene, often in an insidious manner; should that be the case, leeches, blistering the part, and other suitable means, must be promptly resorted to.

CHOLE RICA. (From χολερα, the cholera.) Medicines which relieve the cholera.

CHOLESTERIC ACID. "When the fat matter of the human biliary calcult is treated with nitric acid, which Chagarmil pransped to call cholesterine, there is

which Chevreuil proposed to call cholesterine, there is formed a peculiar acid, which is called the cholesteric.
To obtain it, the cholesterine is heated with its weight To obtain it, me chosen and, by which it is specifly at-tacked and dissolved. There is disengaced, at the same time, much oxide of azot; and the fiquor, on cooling, and especially on the addition of water, left fail a yeland especially on the adultion of water, less fall a yel-low matter, which is the cholesteric acid impure, or impregnated with nitric acid. It may be purified by repeated washings in boiling water. However, after having washed it, it is better to effect its fusion in the midst of hot water; to add to it a small quantity of carbonate of lead; to let the whole boil for some hours, decanting and renewing the water from time to time; then to put the remaining dried mass in contact with alkohol, and to evaporate the alkoholic solution. The

residuum now obtained is the purest possible choleste-

This acid has an orange-yellow colour when it is in This acto has an orange yellow coold when its own mass; but it appears in white needles, when dissolved in alkohol, and left to spontaneous evaporation. Its taste is very feeble, and sightly styptic; its taste resembles that of butter; and its specific gravity is intermediate between that of alkohol and water. It foses at 580 C. and is not decomposed till the temperature be raised much above that of boiling water. It then affords oil, water, carbonic acid, and carburetted hyanosts on water, carbonic acing and carbucetta ny drogen, but no trace of ammonia. It is very soluble in alkohol, sulphuric and accric ather, in the volatile oils of lavender, rosemary, turpentine, bergamot, &c. It is, or the other hand, insoluble in the fixed oils of joives, sweet almonds, and castor oil. It is equally so in the vegetable acids, and almost entirely insoluble in water, which takes up merely enough to make it redden lit-Both in the cold, and with heat, nitric acid dissolves without altering it. Concentrated sulphuric acid acting on it for a considerable time, only carbonizes it

It appears that the cholesteric acid is capable of uniting with the greater part of the salifiable bases. All the resulting salts are coloured, some yellow, others orange, and others red. The cholesterates of potassa, soda, annonia, and probably of morphia, are very soluble and deliquescent; almost all the others are in-soluble, or nearly so. There is none of them which cannot be decomposed by all the mineral acids, except the carbone, and be the more than the control of the carbone. cannot be decomposed by an the innertal actus, except the carbonic, and by the greater part of the vegetable acids; so that on pouring one of these acids into a solution of the cholesterate, the cholesteric acid is in-stantly separated in flocks. The soluble cholesterates form precipitates in all the metallic solutions, whose base has the property of forming an insoluble or slightly soluble sait with cholesteric acid.

Pelletier and Caventou found the cholesterate of barytes to consist of 100 of acid, and 56.259 base; whence the prime equivalent of the former appears to be about 17.35. Yet they observed, on the other hand, be about 17.35. Yet they observed, on the other hand, that on treating the cholesterate of lead with sulphuric acid, they obtained as much sulphate of lead as of cholesterate. From this experiment, the equivalent of the dry acid would seem to be 5; hence we may ima-gine, that when the cholesteric acid unites to the oxide of lead, and in general to all the oxides which have a slight affinity for oxygen, there takes place something similar to what happens in the reaction of oxide of lead and oxatic acid."—Journ. de Fhar. iii. 292. CHOLESTERINE. The name given by Chevreuil to the pearly substance of human bilitary calculi. It

consists of 72 carbon, 6.66 oxygen, and 21.33 hydrogen,

by Berard

CHOLICE LE. (From  $\chi_0\lambda\eta$ , bile, and  $\chi\eta\lambda\eta$ , a tumour.) A swelling formed by the bile accumulated in the gall-bladder.

in the gall-blader. CHOLOLUTHUS. (From  $\chi o \lambda \eta$ , bile, and  $\lambda t \theta o \varepsilon$ , a stone, gall stone.) A name of a genus of disease in the Class, Coluca; Order, Splanchnica, of Good's Nosology, characterized by pain about the region of the liver, catenating with pain at the pit of the stomach; the pulse unchanged; sickness; dyspepsy; inactivity; billious concretion in the gall bladder, or bile ducts. It has two species, Cholululus quessens, the quiescent gall-stone, and C. means, the passing of gall-stones.
CHOLOLITHICUS. Of or belonging to gall-stone.

Cholo'ma. (From χωλος, lame, or mained.) I. A halting, or lameness in the leg.

2. Galen says that, in Hippocrates, it signifies any distortion of a limb.

CHONDRO. Some muscles have this word forming a part of their name, because they are connected with

a particular cartilage.

CHONDROG LO SSUS. (From 2002000), a carriage, the tongue.) A muscle so named from its in-(From χονδρον, a cartilage, and Ydwoon, the tongue.) sertion, which is in the basis or cartilaginous part of

the tongue. See Hyoglossus.
CHONDRO LOGY. (Chondrologia; from xovôpos, a cartilage, and loyos, a discourse.) A discourse on

CHONDRO PHARYNG FUS. (From χουδρος, a cartilage, and δαρογ ζ, the upper part of the fauces.) A muscle so named because it rises in the cartilaginous part of the tongue, and is inserted in the pharynx. CHONDROS. Χουδρος 1. A cartilage.

2. A food of the ancients, the same as alica.

3. Any grumous concretion.

CHONDROSYNDE'SMUS. (From xovopos, a cartilage, and συνόεω, to tie together.) A cartilaginous

CHO'NDRUS. A cartilage.

CHO NBRUS. A carryinge.
CHO NE. Χωύν. The infundibulum.
CHO NA. Χωύν. A region. Galen, in his book De
Usu Partium, expresses by it particularly the cavities
of the cyes; but, in others of his writings, he intimates

of the cycls, out, in others of his writings, he intimates by it any void space.
 CHO'RDA. (From χορόη, which properly signifies an intestine, or gut, of which a chord may be made.)
 1. A cord, or assemblage of fibres.
 2. A tendon.

3. A painful tension of the penis in the venereal disease

4. Sometimes the intestines are called chorde.

4. Sometimes are increasing are cause enorms.

Chord a Magna. A name of the tendo -tendlis.

Chord a tympani. A branch of the seventh pair increes. The portio dura of the seventh pair of nerves, having entered the tympanum, sends a small branch to the stapes, and another more considerable one, which runs across the tympanum from behind forwards, passes between the long leg of the incus and the handle of the malleus, then goes out at the same place where the tendon of the anterior muscle of the malleus enters. It is called chorda tympani, because it crosses the tympanum as a cord crosses the bottom of a drum. Dr. Monro thinks, that the chorda tympani of a drum. Dr. Monro thinks, that the chorda tympani is formed by the second branch of the filth pair, as well as by the portio dura of the seventh.

Chord Trendings. The tendinous and cord-like

substances which connect the carnew columne of the

ventricles of the heart to the auricular valves.

CHORDA WILLISH. The small fibres which cross the sinuses of the dura mater. They are so termed, because Willis first described them.

Chorda Psus. (From  $\chi o \rho \delta \eta$ , a cord, and  $\alpha \pi / \omega$ , to knit.) A sort of painful colic, where the intestines

knit.) A sort of painful colic, where the intestines appear to be twisted into knots.

CHORDET. (Chordé. French.) A spasmodic contraction of the penis, that sometimes attends gonorrhea, and is often followed by a hemorrhage.

CHOREA. (Xopeta; from xopos, a chorus, which of old accompanied dancing. It is called St. Vitus's dance, because some devotees of St. Vitus exercised themselves so long in dancing, that their intellects were disordered, and could only be restored by dancing again at the anniversary of St. Vitus.) Chorea Sancti Viti. Synclonus chorea of Good. St. Vitus's dance. Convulsive motions of the limbs, as if the person were dancing. It is a genus of disease, arranged by Cullen in the class Neuroses; and order Spasmi. These conin the class Neuroses; and order Spasmi. These convulsive motions, most generally, are confined to one side, and affect principally the arm and leg. When any motion is attempted to be made, various fibres of other muscles act which ought not; and thus a contrary effect is produced from what the patient intended. It is chiefly incident to young persons of both sexes, and makes its attack between the age of ten and fifteen occurring but seldom after that of puberty.

By some practitioners it has been considered rather

as a paralytic affection than as a convulsive disorder, and has been thought to arise from a relaxation of the muscles, which, being unable to perform their func-tions in moving the limbs, shake them irregularly by jerks. Chorea Sancti Viti is occasioned by various irritations, as teething, worms, offensive smells, poisons, &c. It arises likewise in consequence of violent affections of the mind, as horror, fear, and anger. In many cases it is produced by general weakness; and, in a few, it takes place from sympathy, at seeing the

disease in others.

The fits are sometimes preceded by a coldness of the feet and limbs, or a kind of tingling sensation, that ascends like cold air up the spine, and there is a flathelint pain in the left hypochondrium, with obstinate costiveness. At other times, the accession begins with varying, stretching, anyiety about the heart, palnitayawning, stretching, anxiety about the heart, paipita-tions, nausea, difficulty of swallowing, noise in the ears, giddiness, and pains in the head and teeth; and then come on the convulsive motions

These discover themselves at first by a kind of lameness, or instability of one of the legs, which the person draws after him in an odd and ridiculous manner; nor can he hold the arm of the same side still for a mo-ment: for if he lays it on his breast, or any other part of his body, it is forced quickly from thence by an inCHR

uses many singular gesticulations before he can carry the cup to his head, and it is forced in various direc-tions, till at length he gets it to his mouth; when he pours the liquor down his throat in great haste, as if points the indust now in its first in great haste, as if he meant to afford amusement to the by-standers. Sometimes various attempts at running and leaping take place; and at others, the head and trunk of the body are affected with convulsive motions. In many instances, the mind is affected with some degree of fatuity, and often shows the same causeless emotions (such as weeping and laughing) which occur in hyste-ria. When this disease arises in children, it usually ceases about the age of puberty; and in adults, is often carried off by a change from the former mode of living. Unless it passes into some other disease, such as epi-lepsy, it is hardly attended with danger.

The leading indications in the treatment of this com-plaint are, 1. To obviate the several exciting causes; 2. To correct any faulty state of the constitution, 2. To correct any faulty state of the constitution, which may appear to give a predisposition; 3. To use those means which experience has shown best calculated to allay irregular muscular action. Among the sources of irritation, the most common is the state of the bowels; and the steady, but moderate, use of active catharities has often a great effect upon the discusse, improving the appetite and strength at the same time, largua, exampton, islain, &c. may be exhibited ac-Benna, scammony, jalap, &c. may be exhibited ac-cording to circumstances, often in conjunction with calomel, particularly where the liver is torpid. The general debility usually attending indicates the em-ployment of tonics, as the cinchona, chalybeates, or sulphate of zinc, which is particularly useful; and with these, cold bathing, not too long continued, may with these, cold bathing, not too long continued, may be advantageously conjoined; also requiring the patient to use muscular exertion, as much as they can readily, will assist materially in the cure. Sometimes in violent cases, and in irritable constitutions, the occasional exhibition of opium, or other sedative, may be required; taking care, however, that the bowels are not confined thereby. Occasionally too, where the above means are not successful, the more powerful antispasmodics may be tried, as wher, camphor, musk, &cc. Electricity also has been by some recommended. CHO'RION. (From worce to expan: because it

CHO'RION. (From χωρεω, to escape; because it always escapes from the uterus with the feetus.) Shaggy chorion. The external membrane of the fætus

CHO'ROID. (Choroidea; from χοριον, the chorion, and ειδος, resemblance.) Resembling the chorion, a

membrane of the fætal ovum.

CHOROID MEMBRANE. Membrana choroides. The second tunic of the eye, lying immediately under the sclerotica, to which it is connected by vessels. The true knowledge of this membrane is necessary to a perfect idea of the iris and uvea. The tunica choperfect idea of the iris and uvea. The funica cho-roidea commences at the optic nerve, and passes for-wards, with the sclerotic coat, to the beginning of the cornea transparens, where it adheres very firmly to the sclerotic membrane, by means of a cellular mem-brane, in the form of a white fringe, called the citiary circle. It then recedes from the sclerotica and cornea circle. It then recedes from the sclerotica and cornea and ciliary circle, directly downwards and inwards, forming a round disk, which is variously coloured, hence, blue, black eyes, &c. This coloured portion, reflected inwards, is termed the iris, and its posterior surface is termed upon. The choroid membrane is highly vascular, and its external vessels are disposed like stars, and termed vasa vorticosa. The internal surface of this membrane is covered with a black pigment, called the pigment of the choroid membrane.

Chorold Plexus. Plexus choroideus. A plexus of blood-vessels, situated in the lateral ventricles of the

Choroid tunic. See Choroid membrane. CHRI'SIS. (From χριω, to anoint.) An inunction,

or anointing of any part.

Christmas rose. See Helleborus niger.

Christmas rose. See Helleborus niger.
CHRIS TUM. (From χριω, to anoint.) An unguent,
or ointment of any kind.
CHRO MAS. A chromate, or salt, formed by the

union of chromic acid with salifiable bases; as chro-

voluntary motion. If he is desirous of drinking, he iso much been discovered at one place. it furnishes the means of preparing the beautiful paint called the chromic yellow, with which carriages and furniture are now painted in the United States. Chromate of iron, in octaedral crystals, very small and magnetic, is found at the same place, and has nowhere else been discoat the same place, and has nowhere else freen discovered, as far as we can learn from the writings of mineralogists. The crystals are found in the ravines, and on the sand of the rivulets of the barehills, mixed with granular chromate of iron. The green oxide of chrome is also found there, colouring the tale, as well as the ruby or violet coloured ore."—

Remove Min. Lum. A.

Bruce's Min. Jour. A.]
Curomatismus. (From χρωμα/ίζω, to colour.)
The morbid discoloration of any of the secretions, as

of the urine, or blood. CHRO'MIC ACID. of the trine, or bood.

CHRO'MIC ACID. Acidum chromicum. "This acid was extracted from the red lead ore of Siberia, by treating this ore with carbonate of potassa, and separating the alkali by means of a more powerful acid. In this state it is a red or orange-coloured powerful acid. der, of a peculiar rough metallic taste, which is more sensible in it than in any other metallic acid. sensible in it than in any other metallic acid. If this powder be exposed to the action of light and heat, it loses its acidity, and is converted into green oxide of chrome, giving out pure oxygen gas. The chromic acid is the first that has been found to deoxygenate itself easily by the action of heat, and afford oxygen gas by this simple operation. It appears that several of its properties are owing to the weak adhesion of a part at least of its oxygen. The green oxide of chrome cannot be brought back to the state of an acid, unless its oxygen be restored by treating it with some other

The chromic acid is soluble in water, and crystallizes, The chromic acid is soluble in valer, and crystalizes, by cooling and evaporation, in longish prisms of a ruby red. Its taste is acrid and styptic. Its specific gravity is not exactly known; but it always exceeds that of water. It powerfully reddens the tincture of turnsole. Its action on combustible substances is little known. If it be surongly heated with charcoal, it grows black,

and passes to the metallic state without melting Of the acids, the action of the muriatic on it with most remarkable. If this be distilled with the chromic acid, by a gentle heat, it is readily converted into chloand, by a genue lead it is readily converted into capa-rine. It likewise imparts to it by mixture the property of dissolving gold; in which the chromic resembles the nitric acid. This is owing to the weak adhesion of its oxygen, and it is the only one of the metallic-

The extraction of chromic acid from the French ore is performed by igniting it with its own weight of nitre in a crucible. The residue is lixiviated with water, which being then filtered, contains the chromate of On pouring into this a little nitric acid and muriate of barytes, an instantaneous precipitate of the muriate of barytes, an instantaneous prespirate of the chromate of barytes takes place. After having procured a certain quantity of this salt, it must be put in its moist state into a capsule, and dissolved in the smallest possible quantity of weak nitric acid. The barytes is to be then precipitated by very dilute sulphuric acid, taking care not to add an excess of it. When the liquid is found by trial to contain neither subthuries acid not baytes it must be filtered. sulphuric acid nor barytes, it must be filtered. It now consists of water, with nitric and chromic acids. The whole is to be evaporated to dryness, conducting the heat at the end so as not to endanger the decomposition of the chromic acid, which will remain in the capsule under the form of a reddish matter. It must kept in a glass phial well corked.

Chromic acid, heated with a powerful acid, becomes chromic acid; while the latter, healted with the hydrate of an alkali, becomes chromic acid. As the solution of the oxide is green, and that of the acid yellow, these transmutations become very remarkable. to the eye. From Berzelius's experiments on the combinations of the chromic acid with barytes, and

combinations of the chromic acid will barytes, and, oxide of lead, its prime equivalent seems to be 6.5; consisting of 3.5 chromium, and 3.0 oxygen.

It readily unites with alkalies, and is the only acid that has the property of colouring its salts, whence the name of chromic has been given it. If two parts of the red lead ore of Siberia in fine powder be boiled with one of an alkali saturated with carbonic acid, in forty parts of water, a carbonate of lead will be precipitated, and the chromate remain dissolved. The salutions are of a lemon colour, and affect constitutions are of a lemon colour. union of chromate acid with samante bases, as the mate of lead, &cc.

["Chromate of iron, is found in large quantities, at the bare hills, near Baltimore, (Maryland.) massive and granular, in veins and masses disseminated through a serpentine rock. Perhaps in no part of the world has solutions are of a lemon colour, and afford crystals of a somewhat deeper hue. Those of chromate of ummonia are in yellow laminæ, having the metallic

Unstree of gold.

The chromate of barytes is very little soluble, and that of lime still less. They are both of a pale yellow, and when heated give out oxygen gas, as do the

alkaline chromates. If the chromic acid be mixed with filings of tin and the muriatic acrd, it becomes at first yellowish-brown, and afterward assumes a bluish-green colour, which preserves the same shade after desiccation. preserves the same slade after desiccation. After alone gives it the same dark colour. With a solution of nitrate of mercury, it gives a precipitate of a dark cinnabar colour. With a solution of nitrate of silver, it gives a precipitate, which, the moment it is formed, appears of a beautiful carmine colour, but becomes purple by exposure to the light. This combination, exposed to the heat of the blow-pipe, melts bination, exposed to the near of the blow-pipe, mens before the charcoal is inflamed, and assumes a blackish and metallic appearance. If it be then pulverized, the powder is still purple; but after the blue flame of the lamp is brought into contact with this powder, it assumes a green colour, and the silver appears in globules disseminated through its sub-

With nitrate of copper it gives a chesnut-red precipitate. With the solution of sulphate of zinc, muriate of bismuth, muriate of antimony, nitrate of nickel, attains, it produces yellowish precipiand muriate of platina, it produces yellowish precipitates, when the solutions do not contain an excess of acid. With muriate of gold it produces a greenish precipitate.

When melted with borax, or class, or acid of phosphorus, it communicates to it a beautiful emeraldgreen colour.

If paper be impregnated with it, and exposed to the sun a few days, it acquires a green colour, which

remains permanent in the dark. A slip of iron, or tin, put into its solution, imparts

to it the same colour.

The aqueous solution of tannin produces a floccu-

The aqueous solution of tannin produces a flocculent precipitate of a brown fawn colour.

Sulphuric acid, when cold, produces no affect on it; but when warm it makes it assume a bluish-green colour."—Ure's Dict.

OHROMIUM. (Chromium, ii. n.; from χρωμα, colour: because it is remarkable for giving colour to its combinations.) The name of a metal which may be extracted either from the native chromate of lead or of iron. The latter being cheapest and most abundant is usually employed.

dant, is usually employed.

dant, is usually employed. The brown chromate of iron is not acted upon by nitric acid, but most readily by nitrate of potassa, with the aid of a red heat. A chromate of potassa, soluble in water, is thus formed. The iron oxide thrown out of combination may be removed from the residual part of the ore by a short digestion in dilute nuriatic acid. A second fusion with \$\frac{1}{2}\$ of nitre, will give rise to a new portion of chromate of potassa. Having decomposed the whole of the ore, we saturate the altaning averse with patter acid everywate and Having decomposed the whole of the ore, we saturate the alkaline excess with nitric acid, evaporate and crystallize. The pure crystals, dissolved in water, are to be added to a solution of neutral nitrate of mercury; whence, by complex affinity, red chromate of increury precipitates. Moderate ignition expels the mercury from the chromate, and the remaining chromic acid may be reduced to the metallic state, by being exposed in contact of the charcoal from sugar, to a violent heat. to a violent heat.

Chromium thus procured, is a porous mass of ag-glutinated grains. It is very brittle, and of a grayish-white, intermediate hetween tin and steel. It is somewhite, intermediate between tin and steel. It is some-times obtained in needleform crystals, which cross each other in all directions. Its sp. gravity is 5.9. It is susceptible of a feeble magnetism. It resists all the acids except nitronuviatic, which, at a boiling heat, oxidizes it and forms a muriate. Thenard de-scribes only one oxide of chromium; but there are probably two, besides the acid already described.

probably two, besides the acid already described.

1. The protoxide is green, incusible, indecomposable by heat, reducible by voltaic electricity, and not acted on by oxygen or air. When heated to dull redness with the half of its weight of potassium or sodium, it forms a brown matter, which, cooled and exposed to the air, burns with flame, and is transformed into chromate of potassa or soda, of a canary-yellow colour. It is this oxide which is obtained by calcining

the chromate of mercury in a small earthen retort for about i of an hour. The beak of the retort is to be surrounded with a tube of wet linen, and plunged into water, to facilitate the condensation of the merinto water, to facilitate the condensation of the mercury. The exide, newly precipitated from acids, has
a dark-green colour, and is easily redissolved; but
exposure to a dull-red heat ignites it, and renders it
denser, insoluble, and of a light-green colour. This
change arises solely from the closer aggregation of
the particles, for the weight is not altered.

2. The deutoxide is procured by exposing the protonitrate to heat, till the fumes of nitrous gas cease
to issue. A brilliant brown powder, insoluble in
acids, and scarcely soluble in alkalies, remains. Muriatic acid digested on it exhales chlorine, showing
the increased proportion of oxygen in this oxide.

3. The tritoxide has been already described among

3. The tritoxide has been already described among the acids. It may be directly procured by adding nitrate the acids. It may be directly procured by adding nitrate of lead to the above nitrochromate of potassa, and digesting the beautiful orange precipitate of chromate of lead with moderately strong muriatic acid, till its power of action be exhausted. The fluid produced is to be passed through a filter, and a little oxide of silver very gradually added, till the whole solution becomes of a deep red tint. This tiquor, by slow evaporation, deposites small ruby-red crystals, which are the hydrated chromic acid. The prime equivalent of chromic acid deduced from the chromates of barytes and lead by Berzelius, is 6.544, if we suppose them to be neutral salts. According to this chemist, the acid and lead by Berzellus, is 6.544, if we suppose them to be neutral salts. According to this chemist, the acid contains double the oxygen that the green oxide does. But if those chromates be regarded as subsalts, then the acid prime would be 13.088, consisting of 6 oxy-gen = 7.088 metal; while the protoxide would consist of 3 oxyxen + 7.088 metal; and the deutoxide of an intermediate proportion. CHRO'NIC. (Chronic

CHRO'NIC. (Chronicus; from xpovos, time.) A term applied to diseases which are of long continuance, and mostly without fever. It is used in oppo-

sition to the term acute. See Acute. OBJ in Oppo-sition to the term acute. See Acute. CHRU'PSIA. (From  $\chi_{00a}$ , colour, and  $\phi\psi_{15}$ , sight.) Visus coloratus. A disease of the eyes, in which the person perceives objects of a different colour from their natural one.

CHRYSA'NTHEMUM. (From xovoos, gold, and avbegoo, a flower.) 1. The name of a genus of plants in the Linnman system. Class, Syngenesia; Order, Polygamia. Sun-flower, or marigoid.

2. Many herbs are so called, the flowers of which are

of a bright yellow colour.

of a bright yellow colour. Chrysarthemum. The systematic name of the great ox-eye daisy. Maudlin-wort. Bellis-major; Buphthalmum majus; Leucanthemum vulgare; Bellidioides; Consolida media; Oculus bovis. The Chrysanthemum;—foliis amplexicaulibus, oblangis, superné serrais, inferné dentatis, of Linneus. The flowers and herb were formerly esteemed in asthmatic, and phthisical diseases, but have now deservedly fallen into disuse.

CHRY'SE. (From xovoos, gold.) The name of a vellow plaster.

Chysele ctrum. (From χουσος, gold, and ηλεκ ρου, amber.) Amber of a golden yellow colour. Chryst pea. (From Chrysippus, its discoverer.) An herb enumerated by Pliny.

CHRYSI'TIS. (From xovoos, gold.) 1. Litharge. 2. The yellow foam of lead.

2. The yellow foam of lead.
3. The herb yarrow, from the golden colour of its

flower.

CHRYSOBA'LANUS. (From χρυσος, gold, and βαλανος, a nut; so named because of its colour, which, before it is dried, is yellow.) The nutmeg.

CHRYSOBERYL. Cymophane of Haüy. A mineral of an asparagus green colour and vitreous luster, found in the Brazil, and Ceylon.

[CHRYSOBERYL is jound in the United States, and is the the towership of

to the connection, it is connecticut, it occurs in granite in six-sided prisms

connecticit, it occurs in granite in six-sided prisms and six-sided tables; its colour varies from greenish yellow to yellowish green. A.]

CHRYSOCO'LLA. (From χουσος, gold, and κολλη, cement.) Gold solder; Borax.

CHYSO'COMA. (From χουσος, gold, and κομη, hair; so called from its golden, hair-like appearance.)

The herb milfoil, or yarrow. See Achillea millefolium.

CHRYSOGO'NIA. (From χρυσος, gold, and γενοματ, to become.) A tincture of gold.

CHRYSOLA'CHANON. (From χρυσος, gold, and λα-χανον, a pot-herb; so named from its having a yellow leaf.) The herb orach; a species of atriples.

CHRYSOLITE. Perioto of Hauv. Topaz of the

CHRYSOLITE. Period of Hauy. Topaz of the ancients, while our topaz is their chrysolite. The hardest of all gems of a pistachio-green colour. It comes from Egypt and Bohemia.

CHRYSOSPLE NUM. (From xovoos, gold, and acmicrosy, spleenwort.) The name of a genus of pictors in the Linuxeau system.

CHRYSOS: LE NICLE. Year 2000cs, gold, and ασπλευου, spleenwort.) The name of a genus of plants in the Linnacan system. Class, Decandria; Order, Digwina. Golden saxifrage. CHRYSOPRASE. A variety of calcedony. CHRYSOPRASE. A variety of calcedony. CHRYSULES. (From χρυσος, gold, and ελκω, to take away.) The aqua regia winch has the property

of dissolving gold.

[CHURCH, Dr. Benjamin, was graduated at Howard College in 1754. He established hunself as a physician in the town of Boston, where he rose to very considerable eminence in his profession. As a skilful and dexterous operator in surgery, he was inferior to no one of his contemporaries in New-England; and as a physician, he was in a career of distinguished re-putation. He possessed a brilliant genus, a lively poetic fancy, and was an excellent writer. For several years preceding the American revolution, he was a years preceding the American revolution, he was conspicuous character, and had great influence among the leading whigs and patriots of the day. When the war commenced in 1775, his character was so high that he was appointed physician-general to the army. But while he was performing the duties assigned him,

circumstances occurred which led to a suspicion that he held a treacherous correspondence with the enemy Certain letters in cipher were intercepted, which he had written to a relation in Boston. He was immehad written to a relation in Boston. diately arrested, imprisoned, and tried before a military tribunal appointed to investigate his conduct, and was pronounced guilty of a criminal correspondence with the enemy. It appears that the only evidence by which he was convicted, rested on an intercepted letter directed to a friend in Boston. This letter was written in cipher, and when it was deciphered and examined, its contents seemed in a considerable degree to justify the plea which he had made, that it was designed as an innocent stratagem to deceive and draw from the enemy some information for the benefit of the public. Dr. C. was, at the same time, a member of the punce. Dr. C. was, at the same time, a memoer of the House of Representatives, from which he would have been expelled had he not resigned his seat. He was, however, arraigned before the House, subjected to a rigid examination, and his letter was read by himself by paragraphs, and commented upon, and explained. His defence before the House may be considered as a specimen of brilliant talents and great ingenuity.
"Confirmed," said he, in assured innocence, "I stand prepared for your keenest searchings. The warmest bosom here does not flame with a brighter zeal for the bosom here does not name with a prighter zear for the security, happiness, and liberties of America, than mine." Se high was party zeal, and such the jealousy and prejudice of the day, that a torrent of indignation was ever at hand to sweep from the land every guilty or suspected character. In the instance of Dr. C., there were not a few among the most respectable and intelligent of the community, who expressed strong doubts of a criminal design in his conduct. It was, however, It was, however, his hard fate to pine in prison until the following year, when he obtained permission to depart for the West Indies. The vessel in which he sailed was supposed to have foundered at sea, as no tidings respecting her were ever obtained. A. CHUSITE. A yellowish-green translucent mineral, found by Saussure in the cavities of porphyries, in

the environs of Limbourg

CHYAZIC ACID. See Prussic acid.
CHYLA'RIA. (From xvlos, chyle.) A discharge of a whitish mucous urine, of the colour and consistence of chyle

CHYLE. Chylus. The milk-like liquor observed some hours after eating, in the lacteal vessels of the mesentery, and in the thoracic duct. It is separated by digestion from the chyme, and is that finid substance from which the blood is formed. See *Direction*. "The chyle may be studied under two different

forms:

1st, When it is mixed with chyme in the small intestine.

2d, Under the liquid form, circulating in the chyli-ferous vessels, and the thoracic duct.

No person having particularly engaged in the examination of the cityle during its stay in the small intesting, our knowledge on this point is little. The liquid chyle contained in the chyliferous vessels has been ex-

amined with great care. In order to procure it, the best manner consists in an order to protein at the dest manner consists in giving food to an animal, and, when the digestion is supposed to be in full activity, to strangle it, or to cut the spinal marrow behind the occipital bone. The whole length of the breast is cut open; the hand is whole length of the breast is cut open; the main is thust in so as to pass a ligature which embraces the aorta, the œsophagus, and the thoracic duct, the nearcest to the neck possible; the ribs of the left side are then twisted or broken, and the thoracic duct is seen, closely adhering to the œsophagus. The upper part is detached, and carefully wiped, to absorb the blood; it is cut, and the chyle flows into the vessel intended to

The ancients were acquainted with the existence of the chyle, but their ideas of it were very inexact; it was observed anew at the beginning of the seventeenth century; and being, in certain conditions, of an opaque white, it was compared to milk: the vessels that contain it were even named lacteal vessels, a very

improper expression, since there is very little other similarity between chyle and milk except the colour. It is only in modern times, and by the labours of Duppytren, Vauquelin, Emmert, and Marcet, that positive notions concerning the chyle have been according to the content of the chyle have been according to the chyle have be

quired.

We shall give the observations of these learned

men, with the addition of our own.

If the animal from which the chyle is extracted has caten animal or vegetable substances of a fatty nature, the liquid drawn from the thoracic duct is of a milky white, a little heavier than distilled water, of a strong spermatic odour, of a salt taste, slightly adhering to the beauge, and sensibly alkaline. Chyle, very soon after it has passed out of the vessel

that contained it, becomes firm, and almost solid: after some time, it separates into three parts; the one solid that remains at the bottom, another liquid at the top, and a third that forms a very thin layer at the surface of the liquids. The chyle, at the same time, assumes a vivid rose colour.

When the chyle proceeds from food that contains no fat substance, it presents the same sort of properties, but instead of betag opaque white, it is opaine, and almost transparent; the layer which forms at the top is less marked than in the forner sort of chyle. Chyle never takes the hue of the colouring sub-

stances mixed in the food, as many authors have pre-

Animals that were made to eat indigo, saffron, and madder, furnished a chyle, the colour of which had no relation to that of the substances.

Of the three substances into which the chyle separates when abandoned to itself, that of the surface, of an opaque white colour, is a fatty body; the solid part

is formed of fibrin and a little colouring matter; the liquid is like the seven of the blood. The proportion of these three parts is variable ac-cording to the nature of the food. There are species of chyle, such as that the sugar, which contain very little fibrin; others, such as that of flesh, contain more. The same thing happens with the fat matter, which is very abundant when the food contains grease or oil, while there is scarcely any seen when the food is nearly deprived of fatty bodies.

The absorption of the chyle has been attributed to the capillarity of the lacteal radicles, to the compression of the chyle by the sides of the small intespression of the chyle by the sides of the small intes-tine, &c. Latterly, it has been pretended that it takes place by virtue of the proper sensibility of the absorb-ing mouths, and of the usensible organic contractifity that they are supposed to possors. It first enters the threads of the lacterity vessels, it then traverses the me-sentence glands, it arrives at the thoracic duct, and at last enters the subclavian vein.

The causes that determine its motion are the contractility proper to the chyliferous vessels, the unknown cause of its absorption, the pressure of the abdominal muscles, particularly in the motions of respiration, and, perhaps, the pulsation of the arteries of the abdomen.

If we wish to have a correct idea of the velocity with which the chyle flows into the thoracic duct, we must open this canal in a living animal, at the place where it opens into the subclavian vein. We find that this rapidity is not very great, and that it increases every time that the animal compresses the viscera of the abdomen, by the abdominal muscles; a similar effect is produced by compressing the belly with the

However, the rapidity of the circulation of the chyle appears to me to be in proportion to the quantity formed in the small intestine; this last is in proportion to the quantity of the chyme: so that if the food is in great abundance, and of easy digestion, the chyle will flow quickly; if, on the contrary, the food is in small quantity, or, which is the same thing, if it is of difficulty in the characteristic as less that with the characteristics. cult digestion, as less chyle will be formed, so its pro-

gress will be more slow.

gress will be more slow.

It would be difficult to appreciate the quantity of chyle that would be formed during a given digestion, though it ough to be considerable. In a dog of ordinary size, that had caten animal food at discretion, an incision into the thoracic duct of the neck (the dog being alive) gave about half an ounce of liquid in five minutes, and the running was not suspended during the whole continuance of the formation of the chyle, that is, during several hours.

It is not known whether there is any variation in the rapidity of the motion of the chyle during the same digestion; but, supposing it uniform, there would enter six ounces of chyle per hour into the venous system. We may presume that the proportion of chyle is more considerable in man, whose chyliferous organs are more voluminous, and in whom the digestion is, in general, more rapid than in the dog."—Magendie's Physical Chyline is the children of t

The chyle is mixed with the albuminous and gela-tinous lymph in the thoracic duct, which receives

them from the lymphatics.

The uses of the chyle are, 1. To supply the matter from which the blood and other fluids of our body are prepared; from which fluids the solid parts are formprepared; from which mulaes the solut parts are sormed. 2. By its accescent nature, it somewhat restrains the putrescent tendency of the blood: hence the dreadful putridity of the humours from starving; and thus milk is an excellent remedy against scurvy. 3. By its very copious aqueous latex, it prevents the thickening of the fluids, and thus renders them in for the various secretions. 4. The chyle secreted in the breasts of puerperal women, under the name of milk, forms the most excellent nutriment of all aliments for new-born

CHYLIFICA'TION. (Chylificatio; from chylus, and fio, to become.) Chylificatio. The process carried on in the small intestines, and principally in the duodenum, by which the chyle is separated from the

CHYLI'SMA. (From xulas, juice.) An expressed juice.

(Chylopoieticus; from χυλος, ike.) Chylopoietic. Any thing CHYLOPOIE TIC. chyle, and works, to make.) Chylopoietic. Any thing connected with the formation of chyle; thus chylopoi-

connected with the formation of enjoye; thus enjoipoi-etic viscera, chylopoietic vessels, &c. CHYLO'SIS. (From  $\chi v \lambda o_5$ , juice.) Chylification, or the changing the food into chyle. CHYLOSTA'OMA. (From  $\chi v \lambda o_5$ , juice, and  $\varphi a \zeta o_6$ , to distil.) The distillation or expression of any juice, or

The Chinese hold it in great estimation as a stomachic, infused in wine.

Chy'sis. (From χυω, to pour out.) Fusion, or the reduction of solid bodies into fluid by heat.

Cny TLON. (From χυω, to pour out.) An anointing with oil and water.

CIBA'LIS. (From cibus, food.) Of or belonging

CIBALIS FISTULA. An obsolete term for the œso-

CIBA'TIO. (From cibus, food.) The taking of food.

An obsolete term for sulphur

CI BUR. Anonsoler term for supplur. CICATRISANT. (Cicatrisans; from cicatrice, to skin over.) Such applications as dispose wounds and ulcers to dry up and heal, and to be covered with a

CICA'TRIX. (From cicatrico, to heal up or skin over.) A seam or scar upon the skin, after the healing of a sore or ulcer.

of a sore or ulcer.

Cicely, sweet. See Scandiz odorata.

CICER. (A plant so called. The Cicerones had their name from this pulse, as the Pisones had from the pisum or pea, and the Lentuli from the lens or lentil.)

1. The name of a genus of plants in the Linnean system. Class, Diadelphia; Order, Decandria. The vetch.

2. The pharmacoposial name of the common cich

CLEER ARIETINUM. The systematic name of the cicer plant. Erebinthus; Cicer—folia serratis, of Linnæus. The seeds have been employed medicinally, Linnæus. The seeds have been employed medicinally, but are now fallen into disuse. In some places they are toasted, and used as coffee; and in others, ground into a flour for bread. The colour of the arillus of the seed is sometimes white, red, or black; hence the distinction into civer album, rubrum, and nigrum.

CICERA. (From cicer, the vetch.) A small pill of

the size of a vetch.

the size of a vetch.

CICERA TARTARI. Small pills composed of turpentine and cream of tartar, of the size of a vetch.

CICHO'RIUM. (Originally, according to Pliny, an Egyptian name, and adopted by the Greeks. It is written sometimes Kexcoctov: whence Horace has cichorea, levesque makea: sometimes Kexcoptov or Kexcoptov. It is supposed by some to have this name, maparo dia row xwoptov ketta, from its creeping through the fields. Others derive it from kexco, invento; on account of its being so readily found, or so common.) Succory. I. The name of a genus of plants in the Linnara system. Class, Syngenesia; Order, Polygamia aqualis. mia equalis.

2. The pharmacopeial name of the wild cichory.

2. The pharmass.
See Cichorium intubus.
The systematic name of the

See Cichorium intybus.

Cichorium intybus.

Cichorium endive. Endive; Cichorium,—foribus solitariis, pendunculatis, foliis integris; crenatis, of Linnaeus, is an extremely wholesome salad, possessing bitter and anodyne qualities.

Cichorium intybus. The systematic name of the wild succory. Cichorium; Cichorium; Cichorium sylvestre vel efficinarum, Cichorium;—foribus geminis, sessibus; foliis runcinatis, of Linnaeus, It belongs to the same family with the garden endive, and by some botanists has been supposed to be the same plant in its uncultivated state; but the endive com-Chylostagma diagnation of expression of any juice, and σαζω, to distil.) The distillation or expression of any juice, or huming part from the rest.
Chylostagma diaphroretrow. A name given by Mindererus to a distillation of Venice treacle and mithridate.
Chylostagma diaphroretrow. A name given by Mindererus to a distillation of Venice treacle and mithridate.
Chylostagma diaphroretrow. A name given by Mindererus to a distillation of Venice treacle and mithridate.
Chylostagma distillation of Venice treacle and mithridate.
Chylostagma: from χυω, juice.) See Chylostagma continue of the mithridate of the bile, &cc. See Digestion CHVMIA. Chemistry.
Chylostagma dispersion of the same price of the same plant in its uncultivated state; but the endive commonly used as salad is an annual, or at most a bien-displant in its uncultivated state; but the endive commonly used as salad is an annual, or at most a bien-displant in its uncultivated state; but the endive commonly used as salad is an annual, or at most a bien-displant in its uncultivated state; but the endive commonly used as salad is an annual, or at most a bien-displant in its uncultivated state; but the endive commonly used as salad is an annual, or at most a bien-displant in its uncultivated state; but the endive commonly used as salad is an annual, or at most a bien-displant in its uncultivated state; but the endive commonly used as salad is an annual, or at most a bien-displant in its uncultivated state; but the endive commonly used as salad is an annual, or at most a bien-displant in its uncultivated state; but the endive commonly used as salad is an annual, or at most a bien-displant in its uncultivated state; but the endive commonly used as salad is an annual, or at most a bien-displant in its uncultivate state; but the endive commonly used as salad is an annual, or at most a bien-displant in its pow hour in plant in its pow hour in pl plant in its uncultivated state; but the endive com-

of the like kind, in whey, and rendered purgative by a | cause they infest houses.) The name of a genus of suitable addition of polychrest salt, was found a use-insects in the Linnean system. The wall-louse or ful remedy in cases of bitary calcula, and promises ad-bug. vantage in many complaints requiring what have been termed attenuants and resolvents. The virtues of succory, like those of dand-fion, reside in its milky succory, like those of dandelion, reside in its unliky juice; and we are warranted, says Dr. Woodville, in asserting, that the expressed jeicecof both these plants, taken in large doses frequently repeated, has been found an efficacious remedy in phthisis pulmonalls, as well as the various other affections above mentioned. The milky juice any be extracted by boiling in water, or by pressure. The wild and the garden sorts are used indirecently. He root is cut into small pieces, dried, and roasted, it resembles coffee, and is sometimes a good substitute for it.

dried, and roasted, it resembles coffee, and is sometimes a good substitute for it.

CICHORY. See Cichorium intybus.

Cickury, wild. See Cichorium intybus.

By some thought from its light.) The glowworm. By some thought to be anodyne, lithoutingtic, though probably neither. Not used in the present day.

Circles and the cickurs. Anoil,

CICT NUM OLEUM. (From KKK, the richnus.) An oil, obtained by boiling the bruised seeds of the Jatropha cureas of Linnaus. It is somewhat similar in its pro-

perties to castor oil.

CI'CLA. A name for the white beet. CICU'TA. (Quasi executa, blind; Cleux. A name for the white bect. Cleura. Quantum prints also the internole, or space between two joints of a reed; or the hollow stem of any plant which the shepherds used for making their rotal pipes. Est milit disparibus septem conjunctd cicutis fistula. Virgil.) Hemiock. J. The name of a genus of plants in the Linnaran system. Class, Pentandria; Order, District. gynia.
2. The name, in most pharmacopæias, of the com-

mon hemiock. See Contum.

CICUTA AQUATION. See Cicuta virosa.

CICUTA VIROSA. The systematic name of the Cicuta CIGETA VIROSA. The systematic name of the Cicuta equation, Centaria virosa; Sium majus alterum angustifolium; Sium eruca folio; long-leaved water hemlock and cow-bane. This plant, Centa-umbellis oppositifolic; petiolis marginatis obtusts, of Linhaus, is seddom employed medicinally in the present day. It is an active porson, and often eaten by mistake for the wild smallage, the chium graveoleus, of Linhaus; when it produces tremots, vertigo, a violent burning at the stomach, epilepsy, convulsions, spasms of the jaw, a flowing of blood from the ears, tunnefaction of the abdomen, and death. CICUTA'RIA. (From cauta, hemlock.) Bastard hemlock. See Charonhullum sulvestre.

CICUTA'RIA. (From cicuta, hemlock.) Bastard hemlock. See Charophyllum sylvestre.
CICUTARIA AQUATICA. See Phillandrium aqua-

ticum.
CICUTARIA VIROSA. See Cicuta virosa.
CIDO NIUM. See Pyrus cydonica.
CILIA: (The plural of cilium.) A species of pubescence of plants which consists of hairs on the marginrof a hair or petal, giving it a fringed appearance.
CILIAR. (Ciliums) from cilium, the cyclid.) Belonging to the eyelid.

CIGIAR LOGAMENT. Ligamentum ciliare. The circular portion that divides the chroid membrane from the iris, and which adheres to the selectoic membrane. It appears like a white circular ring. See Charoid

membrane.

CILIARIS MUSCULUS. That part of the musculus orbigularis patpebrarum which hes nearest the cilia, considered by Rudan as a distinct muscle.

CILIATUS. Bondered, timged: applied to leaves, corolla, partis, Sec.: hence folian cellistum, anthodium citissum, was pelala cilistus. See issay, Corolla, partis de la cilistum, considered, corolla, partis de la cilistum, cilistum, anthodium citissum, care pelala cilistus. See issay, Corolla, partis de la cilistus. See issay, Corolla, partis de la cilistus. The cilistus partis de la cilistus. Ciliant industriales. The white folds at the margin of the uvea in the eye, covered with a black mat-

gin of the uvea in the eye, covered with a black matter, which proceed from the uvea to the crystalline

Der, winch proceed from the dreat of the Systems (Ins., upon which they lie.

Citto. (From cilium, the cyclid.) One who is affected with a spasm of tembling of the cyclids.

Cittorial. (From cilium, the cyclid.) A spassor

mode tremoling of the eyelids.

CIN

CIMEX DOMESTICUS. Six or seven are given in-wardly to cure the ague, just before the fits come on, and have the same effect with every thing nauseous

and disgusting.

Black snake root. This is the root C'IMICIFUGA. Actea racemosa of Wildenow, an American plant. According to the late Dr. Barton, a decection of it forms a useful astringent gargle in sore throats, and also cures psora. We are tool that the Indians made great use of it in rheumatism; also as an agent ad partum accelerandum. Dr. Tully acquaints me, that he has found it disphoretic, durente, and moderately tonic, forming a useful auxiliary in the treatment of acute and chronic rheumatism, and of dropsy; likewise operating very beneficially in hysteria. It is usually given in the form of decoction—Big. Mal. Med. A. CIMO LIA ALBA. (From Κιμωλος, Umolus, an island in the Cretan sea, where it is procured.) See Cimoluta. CIMOLITE. Cimolian carth. The Cimolia of Pliny. An earth of a grayish white colour, which consists of silex, alumina, oxide of iron, and water. CI'MA CIME. See Cinchona.

CI'MA CIME. According to the late Dr. Barton, a decoction of it

CINE SEMEN.

CINARA. (From kyree, to move; quasi movet ad venerem vel urinum.) Artichoke. 1. The name of a genus of plants in the Linnacan system. Class, Syn-genesic; Order, Polygamia avqualis. 2. The pharmacopeial name for the common arti-

choke. See Cinara scolymus.

Cinara scolymus. The systematic name of the CINARA SCOLYMUS. The systematic name of the artichoke, called in the pharmacopeias Alcocalum; Agriocinara; Articocalus; Artischocas lavis; Costus nugra; Carduus sativus non spinosus; Cinara hortensis; Scotymus sativus; Carduus domesticus capite majore; Carduus attilis. The Cinara—foliis subspinosis pinnatus indivisique, calycinis squamis ovatis, of Linneus. A native of the southern parts of Europe, but cultivated here for culinary purposes. The leaves are thire, and afford, by expression, a consideraleaves are binor, and afford, by expression, a considera-ble quantity of juice, which, when strained, and mixed with an equal quantity of white wine, has been given successfully in dropsies, in the dose of 3 or 4 tablespoonfuls night and morning, but it is very uncertain

in the operation.
CINCHO'NA. (Geoffroy states that the use of this bark was first learned from the following circumstance:-Some cinchona trees being thrown by the winds into a pool of water, lay there till the water became so bitter, that every body refused to drink it. However, one of the neighbouring inhabitants being seized with a violent paroxysm of fever, and finding serice with a violent paroxysin of terral paroxysin on other water to quench his thirst, was forced to drink of this, by which he was perfectly cured. He afterward related the circumstance to others, and pre valled upon some of his friends, who were ill of fevers, to make use of the same remedy, with whom it proved equally successful. The use of this excellent remedy, however, was very little known till about the year however, was very little known till about the year 1608; when a signal cure having been performed by it on the Spanish viceroy's lady, the Countess del Cinchon, at Lima, it came into general use, and hence it was distinguished by the appellation of cortex cinchone, and pulvis comitieses, or the Countess's powder. On the recovery of the Countess, she distributed a large quantity of the bark to the Jesuits, in whose hands it acquired still greater reputation, and by them it was first introduced into Eurone, and thence called cortex. first introduced into Europe, and thence called cortex, has informed and surpey, and made cannot corres, of polosis posuctions, pulvos patrum; and also Cardinai del Lugo's powder, because that charitable prelate bought a large quantity of it at great expense for the use of the religious poor at Rome.) L. The mane of a genus of plants in the Linnaran system. Class, Postandeira, Prefer, Monagania, Cinchane a, Class, Postandeira, Prefer, Monagania, Cinchane a, tandria; Order, Monogynia. Cinchona, or Peruvian

bark-tree.

2. The pharmacoposial name of several kinds of barks; called also Cortex. Cortex china; China; China; China; Kina kina, Kinkina; Qurna quina, Quinquina; therees attording which, grow wild in the hilly parts of Peru; the bark is stripped from the branches, trunk, and root, and dried. Three kinds of it are now

Concer shaped. See Leaf.

1. Cortex cinchonæ cordifoliæ.—The plant which CIMEX. (From κειμαι, to inhabit; so called be- affords this species is the Cinchona cordifolia, of Zea; 235

the Cinchona officinalis, of Linneus; the Cinchona nacrovarpa, of Wildenow. Heart-leaved cinchona. The bark of this tree is called yellow bark, because it approaches more to that colour than either of the others.

Pelletier and Caventou analyzed the Cinchona condoes. It is in flat pieces, not convoluted like the pale, nor dark-coloured like the red; externally smooth, in-ternally of a light cinnamon colour, friable and fibrous, has no peculiar odour different from the others, but a taste incomparably more bitter, with some degree of astringency

astringency.

2. Cortex cinchona lancifolia.—This species is obtained from the Cinchona lancifolia of Zea. Lance-leaved cinchona. This is the quilted bark, which comes in small quilted twigs, breaking close and smooth, friable between the teeth, covered with a budden coat of a brownish colour, internally smooth, and of a light brown; its taste is bitter, and slightly astringent; flavour slightly aromatic, with some degree

of mustiness.

3. Cartex cinchona oblongifolia.—This kind is procured from Cinchona oblongifolia of Zea. Oblong-leaved cinchona. This is the red bark: it is in large thick pieces, externally covered with a brown rugged coat, internally more smooth and compact, but fibrous, of a dark red colour; taste and smell similar to that of the cinchone lancifolic cortex, but the taste rather

stronger.

From the general analysis of bark, it appears to consist, besides the woody matter which composes the consist, besides the woody matter which composes the greater part of it, of guin, resin, gallic acid, of very small portions of tamin and essential oil, and of several satts having principally lime for their basis. Seguin also supposed the existence of gelatin in it, but without sufficient proof. Cold water infused on pale bark for some hours, acquires a bitter taste, with some share of its odour; when assisted by a moderate heat, the water takes up more of the active matter; by decoction, a fluid, deep coloured, of a bitter styptic taste, is obtained, which, when cold, deposites a precipitate of resinous matter and gallic acid. By long decoction, the virtues of the bark are nearly destroyed, owing to is obtained, which, when cold, deposites a precipitate of resinous matter and gallic acid. By long decortion, the virtues of the bark are nearly destroyed, owing to the oxygenation of its active matter. Magnesia enables water to dissolve a larger portion of the principles of bark, as does line, though in an interior-degree. Aikolol is the most powerful solvent of its active matter. Brandy and other spirits and wines, afford also strong solutions, in proportion to the quantity of alkohol they contain. A saturated solution of ammonia is also a powerful solvent; vinegar is less so even than water. By distillation, water is slightly impregnated with the flavour of bark; it is doubtful whether any essential oil can be obtained.

The action of menstrua on the red bark is nearly

any essential off can be obtained.

The action of mensitua on the red bark is nearly
the same, the solutions only being considerably
stronger, or containing a larger quantity of resinous
matter, and of the astringent principle.

The analysis of the yellow bark shows that its
active principles are more concentrated than in either

of the others, allording to water, alkohol, &c. tinc-tures, much stronger both in bitterness and astrin-gency, especially in the former principle. Vauquelin made infusions of all the variefies of cin-

Vauquelm made infusions of all the variefies of cinchona he could procure, using the same quantities of the barks and water, and leaving the powders infused for the same time. He observed, 1. That certain infusions were precipitated abundantly by infusion of gails, by solution of glue and tartar emetic. 2. That some were precipitated by glue, but not by the two other reagents; and, 3. That others were, on the contrary, by nutgalls, and tartar emetic, without being affected by glue. 4. And that there were some which yielded no precipitate by nutgalls, tamin, or emetic tartar. The cinchonas that furnished the first infusion were of excellent quality; those that afforded the fourth were not febrituze; while those that afforded the first. Besides mucilage, kinate of lime, and second and third were febringe, but in a smaller degree than the first. Besides muchage, kinate of lime, and woody fibre, he obtained in his analyses a resinous substance, which appears not to be identic in all the species of bark. It is very bitter, very soluble in alkohol, in acids, and alkalies; scarcely soluble in cold water, but more soluble in obtained in the thermal than the species of the more soluble in obtained in the thermal than the sense of circulations of circulations and from concentrated infusions. A table P 2

Pelletier and Caventou analyzed the Cinchona con-

Pelletier and Caventou analyzed the Cinchona condaminaca, gray bark, and found it composed of, 1. cinchonina, united to kinic acid; 2. green tatty matter; 3. red colouring matter, slightly soluble; 4. tannin; 5. yellow colouring mater; 6. kinite of lime; 7. gum; 8. starch; 9. lignine.

The red bark has been considered as superior to the pale, the yellow is represented, apparently with justice, as being more active than either of the others.

The effects of Peruvian bark are those of a powerful and permanent tonic, so slow in its operation, that its stimulating property is scarcely perceptible by any alteration in the state of the pulse, or of the temperature of the body. In a large dose, it occasions nausea and headache; in some habits it operates as a laxitive; in others it occasions costiveness. It is one of those medicines, the efficacy of which, in removing disease, medicines, the efficacy of which, in removing disease, is much greater than could be expected, a priori, from

is much greater than could be expected, a priori, from its effects on the system in a healthy state.

Intermittent fever is the disease, for the cure of which bank was introduced into practice, and there is still no remedy which equals it in power. The disputes respecting the mode of administering it are now settled. It is given as early as possible, after clearing the stomach and bowels, in the dose of from one scruting that the state of the country o ple to a drachm every second or third hour, during the interval of the paroxysm; and it may even be given during the hot fit, but it is then more apt to excite

In remittent fever it is given with equal freedom, even though the remission of the fever may be ob-

In some forms of continued fever which are connested with debility, as in typhus, cynanche maligna, confluent small-pox, &c. it is regarded as one of the most valuable remedies. It may be prejudicial, however, in those diseases where the brain or its membranes are inflamed, or where there is much irritation, marked by subsultus tendinum, and convulsive motions of the extremities; and in pure typhus it appears to be less useful in the beginning of the disease than in

to be less useful in the elegiming of the cheese than in the convalescent stage.

Even in fevers of an opposite type, where there are marks of inflammatory action, particularly in acute rheumatism, bark has been found useful after bloodletting. In erysipelas, in grangene, in extensive suppuration, and venereal ulceration, the freeuse of bark is of the greaters of the greaters of the greaters of the greaters of the greaters.

is of the greatest advantage.

In the various forms of passive hemorrhagy, in many other diseases of chronic debility, dyspepsia, hypochondriasis, paralysis, rickets, scrofula, dropsy, and in a variety of spasmodic affections, epilepsy, chorea, and hysteria, it is administered as a powerful

chorea, and hysteria, it is administered as a powerful and permanent tonic, either alone, or combined with other remedies suited to the particular case.

The officinal preparations of bark are an infusion, decoction, an extract, a resmous extract, a simple tincture, an ammoniated and a compound tincture. The usual dose is half a drachm of the powder. The only inconvenience of a larger dose is its sitting uneasy on the stomach. It may therefore, if necessary, be frequently repeated, and in urgent cases may be taken to the extent of an ounce, or even two ounces, in twenty-

The powder is more effectual than any of the preparations; it is given in wine, in any spirituous liquor; or, if it excite nausea, combined with an aromatic or, it if excite naisea, commined with an aromatic. The cold infusion is the least powerful, but most grateful; the decoction contains much more of the active matter of the bark, and is the preparation generally used when the powder is rejected; its dose is from two to four ounces. The spirituous tincture, though containing still more of the bark, cannot be extensively

muchage. The decocnon is and sometimes applied on a formerfulation is dieers.

Circuman Caribana. The systematic name of the Caribana bark-tree. It grows in Jamaica, where it is called the sea-side beech. According to Dr. Wright, the bark of this tree is not less efficacious than that of the cinchona of Peru, for which it will prove a useful substitute; but by the experiments of Dr. Skeete, it appears to have less astringent power. Cinchona condamnata. See Cinchona and Cin-

chanina

Chonina.

CINCHONA CORDIFOLIA. See Cinchona.

CINCHONA FLAVA. See Cinchona.

CINCHONA FLORIBUNDA. The systematic name of the plant which affords the Saint Luc bark. Cinchona—floribus panuculates glabris, capsulis turbinatis lavibus, folias ellipticis acuminates glabria, of Linneus. It has an adstringent, butter taste, somewhat like gentian. It is recommended in sintermittents, putrid dysentery, and dysepsia; it should always be joined with some aromatic. Dr. Withering considers this bark as greatly inferior to that of the other species of this genus. In its recent state it is considerably emetic and cathartic, properties which in some degree it retains on being dried, so that which in some degree it retains on being dried; so that the stomach does not bear this bark in large doses, and in small ones us effects are not such as to give it any peculiar recommendation.

CINCHONA LANCIPOLIA. See Cinchona.

CINCHONA OBLONGIFOLIA. See Cinchona. CINCHONA OFFICINALIS. The name of the officinal CINCHONA OFFICINALIS.

Peruvian bark. See Cinchona.
Cinchona Rubra. See Cinchona.
Cinchona Sancta Fe'. Several species of cinchona have been lately discovered at Sancta Fé, yielding barks both of the pale and red kind; and which, from their sensible qualities, are likely upon trial to become equally useful with those produced in the kingdom of

See Cinchonina.

CINCHONIA. See Amenonia. Guinia; Quinia; Cinchonia; Cinchonia; Quinia; Quinia. Cinchonia or Quinine is the salidable base, or vegetable alkali, discovered in the Cinchona condaminea, by Pelletier and Caventou. The person, however, who first recognised its existence, though he did not ascertain its alkaline nature, or study its combinations CINCHONINA.

with acids, was Gornis of Lisbon.

The following process for extracting cinchonina is that of Henry, the younger, which the above chemists approve. A kilogramme of bark reduced into a fine powder, is to be acted on twice with heat, by a dilute bulphuric acid, consisting of 50 or 60 grammes, diluted with 8 kilogrammes of water for each time. with 8 kilogrammes of water for each time. The hi-tered decoctions are very bitter, have a reddish colour, which assumes on cooling a yellowish tint. To dis-colour (blanch) these ilquors, and saturate the acid, either pulverized quickline or magnesia may be em-ployed. The liquors, entirely deprived of colour, are to be passed through a cloth, and the precipinate which to be passed through a count, and the precipinac wince forms is to be washed with a small quantity of water, to separate the excess of lime (if this earth has been used). The deposite on the cloth, well drained and almost completely deprived of moisture for twelve hours, after having been put three successive times to digest in alkohol of 36° (0.837), will furnish, by distilling of the liquid alkohol, a brown viscid matter, better the control of the distribution of the control of the process of t tilling of the liquid alkohol, a brown viscid matter, becoming brittle on cooling. It is to be acted on with water sharpened with sulphuric acid, and the refrigerated liquor will afford about thirty grammes of white crystals, entirely soluble in alkohol, scarcely soluble in cold water, but more in boiling water, particularly if this be slightly acidulated. They consist of pure sulphate of cinchonina. They ought to be briliant, crystallized in parallelopipeds, very hard, and of a glassy-white. It should burn without leaving any residuum. Other processes have been given, of which a full account will be found in the 12th volume of the Journal of Science, p. 325. From a solution of the a full account will be found in the 12th volume of the Journal of Science, p. 325. From a solution of the above salt, the cinchonina may be easily obtained by the addition of any alkali. The cinchonina falls down, and may be afterward dissolved in alkohol, and crystallized by evaporation. Its form is a rhomboidal prism, of 1089 and 729, terminated by a bevelment. It has but little taste, requiving 7000 parts of water for its solution; but when dissolved in alkohol, or an acid, it has the bitter taste of bark. When heated it does not ture before decomposition. It consists of oxygen,

mucilage. The decoction is also sometimes applied | hydrogen, and carbon, the latter being predominant. as a fomentation to ulcers. | It dissolves in only very small quantities in the oils, and in sulphuric ether.

Robiquet gives as the composition of a subsulphate of cinchonina of the first crystallization,

The febrifuge virtue of the sulphates is considered to

be very great. The hair on the temples.

CINCLE'SIS. (From κιγκλιζω, to move.) Cincismus. An involuntary nicittation or winking clismus.

CINERA'RIUM (From cinis, ashes.) The ash-

CINERA KUM (From truts, muces) the searhole of a chemneal instrument.
CINERES. (Plural of cimis, ashes.) Ashes.
CINERES CLAVELLATA. See Potassa impura.
CINERES RUSSICI. See Potassa impura.
CINERITTIOUS. (Cinertius; from cimis, ashes.)
Of the colour of ashes. A name applied to the cortical substance of the brain, from its resemblance to an

CINERI'TIUM. (From cinis, ashes.) A cupel or test; so named from its being commonly made of the ashes of vegetables or bones.

ashes of vegetables or bones.

CINE'RILAM. A name for spodium.

CINETICA. (Kun/luo;, buving the power of motion.) The name of an order in the class Nauroses of Good's Nosology. Diseases affecting the muscles, and embracing Entasia, Clonus, and Synchoms.

CINETUS. The diaphragm.

CINGULA'MA. (From cingulum, a girdle; because it grows in that shape.) The lycopodium.

CI'NGULUM. (From cingo, to bind.) A girdle or belt about the loins.

belt about the loins.

CINGULUM MERCURIALE. A mercurial girdle, called also cingulum sapientia, and singulum stultitia. was an invention of Rulandus's different directions are given for making it, but the following is one of the neatest:—"Take three drachms of quicksilver; shake it with two ounces of lemon-juice until the globules disappear; then separate the juice, and mix with the extinguished quicksilver, half the white of an egg; gumdragon, finely powdered, a scruple; and spread the whole on a belt of flamel." CINGULUM SANCTI JOHANNIS. A name of the arte-

CINIFICATUM. A name for calcinatum.
CINIS. (Cinis, cris. m., in the plural cineres.)
The ash which remains after burning any thing.
CINNABAR. (Cinnabaris, ris. f. Pinny says the Indians call by this name a mixture of the blood of the dragon and elephant, and also nany substances which resemble it in colour, particularly the minium; but it now denotes the red sulphuret of mercury.)
Is An ore of mercury, consisting of that mineral united to sulphur. A native sulphuret of mercury
See Hudrarguri sulphuretum rubrum.

united to suppure. A native surprier or mercury See Hydrargyri sulphuretum rubrum. 2. An artificial compound of mercury and sulphur, called factitious cinmbar, red sulphuret of mercury, and vermilion. See Hydrargyni sulphurciam rubryn.
Cinnabaris factitia. Factitious cinnabar. See
Hydrargyni sulphurciam rubryn.
Cinnabaris or georgia. The sanguis draconis and

CINNABARIS NATIVA. Native cinnabar. See Hy-

drargyri sulphuretum rubrum.
CINNAMO'MUM. (From linamon, Arabian.)

innamon. See Laurus cinnamomum. CINNAMON. 1. The name of a tree. See Laurus

2. The name of a stone, which is a rare mineral

found in the sand of rivers in Ceylon, of a blood and

Position of the passing into orange yellow.
CINQUEFOIL. See Potentilla reptans.
CI'OM. (Kow), a columni; from kon (0 go.)
1. The uvula was formerly so named from its pyra-

midal shape.

An enlargement of the uvula.

2. An emargement of the twyna.
Cto Sis. (From κων, the uvula.) An enlargement and painful swelling of the uvula.
CIPOLIN. A marble from Rome and Autun.
CIRCLE A. (From Circc, the enchantess: so named from the opinion that it was used by Circc in her enchanted preparations.) I. The name of a genus of plants in the Linnacan system. Class, Diandria;

of plants in the Linnaun system. Class, Diandria; Order, Monaggnia. Enchanter's nightshade.

2. The name in some pharmacopecius for the Circea litteticana, which is now fallen wholly into disuse.
CIRCOCETLE. (K.GOORA)A; from KAPOS, variz, or a distation of a vein, and knAn, a tumour.) Varicocele. A morbid or varicose distention and enlargement of the spermatic veins; it is frequently mistaken for a descent of a small portion of omentum. The uncasiness which it occasions is a kind of pain in the back, generally relieved by suspension of the scrotum; and whether considered on account of the same prom and whether considered on account of the pain, or on and whener considered in account of the pair, of on account of the wasting of the testicle, which now and then follows, it may truly be called a disease. It has been resembled to a collection of earth-worms. It is most frequently confined to that part of the speris most frequently confined to that part of the sper-matic process, which is below the opening in the abdominal tendon; and the vessels generally become rather larger as they approach the testes. There is one sure method of distinguishing between a circocele and omental hernia; place the patient in a hort-zonial posture, and empty the swelling by pressure upon the scrotum; then put the fingers firmly upon the upper part of the abdominal ring, and desire the pa-tient to rise; if it is a hernia, the tumour cannot reappear, as long as the pressure is continued at the ring; but if a circocele, the swelling returns with increased size, on account of the return of blood into the

abdomen being prevented by the pressure.

Ct'acos. (From kspros, a circle.) A ring. It is sometimes used for the sphincter muscle which is

round like a ring.

CIRCULA'TION. (Circulatio; from circulo, to compass about.) Circulatio sanguints. Circulation of the blood. A vitel action performed by the heart in the following manner: the blood is returned by the descending and ascending vene cave into the right auriscending and ascending veneravæ into the right auricle of the heart, which, when distended, contracts, and sends its blood into the right ventricle; from the right ventricle it is propolled through the pulmonary artery to circulate through, and undergo a change in the lungs, being prevented from returning into the right auricle by the closing of the valves, which are situated there for that purpose. Having undergone this change in the lungs, it is brought to the left auricle of the heart by the four pulmonary veins, and from thence it is evacuated into the left ventricle. The left ventricle, when distended, contracts, and throws the blood through the aorta to every park of the body, to be returned by the veins into the two vene cave. It is prevented from passing back from the left ventricle in vented from passing back from the left ventricle into the auricle by a valvular apparatus; and the pul-monary artery and aorta at their origin are also fur-

monary artery and aorta at their origin are also furnished with similar organs, to prevent lie returning into the ventricles. This is a brief outline of the circulation, the particulary of which we shall now describe. "The best informed physiologists avow that the circulation of the venous blood is still very little understood. We shall describe here only its most apparent phenomena, leaving the most delicate questions until we treat of the relation of the flowing of the blood in the velns, with that in the arteries. We will then could be the cause that determines the arteries. the velns, with that in the arteries. We will then speak of the cause that determines the entrance of blood into the venous radicles.

To have a general, but just idea of the course of the blood in the veins, we must consider that the sum of the small veins forms a cavity much larger than that of the larger that the municipal version in the which they pass; that these bear the same relation to the tranks in which they terminate: consequently, the blood which flows in the veins from branches towards the trunks, passes always from a larger to a smaller cavity; now, the following principle of hydro-dynamics may here he preferth a poiled: here be perfectly applied :

When a liquid flows in a tube which it fills completely, the quantity of this liquid which traverses the different sections of the tube in a given time ought to be every where the same: consequently, when the tube increases, the velocity diminishes; when the tube diminishes, the velocity increases in rapidity.

Experience confirms this principle, and its just application to the current of venous blood. If a very small vein is cut, the blood flows from it very slowly; it flows quicker from a larger vein, and it flows with considerable rapidity from an open venous trunk.

Generally there are several veins to transport the blood that has traversed an organ towards the larger trunks. On account of their anastomoses, the compressure or ligature of one or several of these veins does not preventer diminish the quantity of blood that returns to the heart; it merely acquires a greater rapidity in the veins which remain free.

This happens when a ligature is placed on the arm

dity in the veins which remain free.

This happens when a ligature is placed on the arm for the purpose of bleeding. In the ordinary state, the blood, which is carried to the fore-arm and the hand, returns to the heart by four deep veins, and at least as many superficial ones; but as soon as the ligature is tightened, the blood passes no longer by the subcutaneous veins, and it traverses with difficulty those which are deeper seated. If one of the veins is then opened at the bend of the arm, it passes out in form of a continued jet, which continues as long as the ligature remains firm, and stops as soon as it is removed.

Except in particular cases, the veins are not much

Except in particular cases, the veins are not much distended by the blood; however, those in which it moves with the greatest rapidity are much more so: the small veins are scarcely distended at all. For a reason very easy to be understood, all the circum-stances that accelerate the rapidity of the blood in a vein, produce also an augmentation in the distention

of the vessel.

The introduction of blood into the veins taking

The introduction of blood into the veins taking place in a continued manner, every cause which arrests its course produces distention of the vein, and the stagnation of a greater or less quantity of blood in its cavity, below the obstacle.

The sides of the veins seem to have but a small influence upon the motion of the blood; they easily give way when the quantity augments, and return to their usual form when it diminishes; but their contraction is limited; it is not sufficiently strong to expel the blood completely from the vein, and therefore those of dead bodies always contain some.

A great number of veins, such as those of the bones, of the sinuses of the dura natter, of the testicles, of the liver, &cc., the sides of which adhere to an inflexible canal, can have evidently no influence upon the motion of the blood that flows in their cavity.

canal, can nave evidency no influence upon the me-tion of the blood that flows in their cavity. However, it is to the elasticity of the sides of the veins, and not to a contraction similar to that of the muscles that we must attribute the faculty which they possess of diminishing the size when the column of blood diminishes: this diminution is also much more marked in those that have the thickest sides, such as the superficial veins.

If the veins have themselves very little influence upon the motion of the blood, many other necessary causes exert a very evident effect. Every continued causes exert a very evident effect. Every continued or alternate pressure upon a vein, when strong enough to flatten it, may prevent the passage of the blood; if it is not so strong, it will oppose the dilatation of the vein by the blood, and consequently favour its motion. The constant pressure which the skin of the members exert upon the veins that are below it, renders the flow of the blood more easy and rapid in these vessels. We cannot doubt this, for all the circumstances that diminish the contractility of the tissue of the skin, are sooner or later followed by a considerable dilatation of the veins, and in certain cases by varix; we know also that mechanical compression, exerted by a proper bandage, reduces the veins again to their ordinary dimensions, and also regulates the motion of the blood mensions, and also regulates the motion of the blood within them.

within them.

In the abdomen, the veins are subject to the alternate pressure of the diaphragm, and of the abdominal muscles, and this cause is equally favourable to the flow of the venous blood in this part.

The veins of the brain support also a considerable pressure, which must produce the same result.

Whenever the blood runs in the direction of its weight it flows with greater facility; the contrary takes

We must not neglect to notice the relations of these ccessory causes with the disposition of the veins. accessory causes with the disposition of the veins. Where they are very marked, the veins present no valves, and their sides are very thin, as is seen in the abdonien, the clost, the cavity of the skull, &c.: where these have less influence, the veins present valves, and have thicker sides; lastly, where they are very weak, as in the subcutaneous veins, the valves are numerous, and the sides have a considerable thick-

ness.
We must take care, however, not to confound among the circumstances favourable to the motion of the blood in the veins, causes which act in another manner. For example, it is generally known that the contraction of the muscles of the fore arm and the shaud during bleeding, accelerate the motion of the blood which passes through the opening of the vein; physiologists say that the contraction of the muscles compresses the does were and excels the blood from them. presses the deep veins, and expels the blood from them, which then passes into the superficial veins. thus, the acceleration would be only instantaneous, or at least of short duration, while it generally continues as long as the contraction. We shall see, farther on, how this phenomenon ought to be explained.

When the fect are plunged some time in hot water, the subcutaneous veins swell, which is generally attributed to the rarefaction of the blood; though the true cause is the augmentation of the quantity of blood in the feet, but particularly at the skin, an augmentation which ought naturally to accelerate the motion of the blood in the veins, since they are in a given time tra-versed by a greater quantity of blood.

After what has preceded, we can easily suppose that the venous blood must be frequently stopped or hindered in its course, either by the veins suffering too strong a pressure in the different positions of the body, or by other bodies pressing upon it, &c.: hence the necessity of the numerous anastomoses that exist not only in the small veins, but among the large, and even among the largest trunks. By these frequent communications, one or several of the veins being compressed in such a way, that they cannot permit the passage of the blood, this fluid turns and arrives at the heart by other di-rections:—one of the uses of the azygos vein appears to be to establish an easy communication between the superior and inferior vena cava. Its principal utility, however, seems to consist in its being the common termination of most of the intercostal veins.

There is no obscurity in the action of the valves of the veins; they are real valves, which prevent the re-turn of the blood towards the venous radicles, and which do this so much better in proportion as they are

large, that is to say, more suitably disposed to stop entirely the cavity of the vein. The friction of the blood against the sides of the veins; its adhesion to these same sides, and the want of fluidity, must modify the motion of the blood in the veins, and tend to retard it; but in the present state of physiology and hydrodynamics, it is impossible to assign the precise effect of each of these particular

We ought to perceive, by what has been said upon the motion of the venous blood, that it must undergo great modifications, according to an infinity of circum-

stance

At any rate, the venous blood of every part of the body arrives at the right auricle of the heart by the trunks that we have already named; viz. two very large, the venæ cavæ, and one very small, the coro-

he blood probably flows in each of these veins with different rapidity: what is certain, is, that the three columns of liquid make an effort to pass into the auricle, and that the effort must be considerable. If it is contracted, this effort has no effect: but, as soon as it dilates, the blood enters its cavity, fills it completely, and even distends the sides a little; it would immediately enter the ventricle, if it did not contract itself at this instant. The blood then confines itself to filling up exactly the cavity of the auricle; but this very soon the carry the carry of the blood, which escapes into the place where there is least compression. Now it has only two issues: lst, by the vena cava; 2dly, by the opening which conducts into the ventricle. The columns of blood which are coming to the auricle pre-

place when it flows against the direction of its | sent a certain resistance to its passage into the cave or corenary veins. On the contrary at finds every facility to enter the ventricle, since the latter dilates uself with

to enter the ventrice, since the latter dilates useff with force, tends to produce a vacuum, and consequently draws on the blood instead of repulsing it.

Towever, all the blood that passes out of the auricle does not enter the ventricle; it has been long observed that, at each contraction of the auricle, a certain quantity of blood flows back into the superior and inferior venæ cavæ; the undulation produced by this cause is sometimes felt as far as the external iliac veins, and into the jugulars; it has a sensible influence, as we will see, upon the flowing of the blood in several organs, and particularly in the brain.

organs, and particularly in the station.

The quantity of blood which flows back in this manner, varies according to the facility with which this figuid enters the ventricle. If at the instant of its dilatation, the ventricle still contains much blood, which has not passed into the pulmonary artery, it can only receive a small quantity of that of the auricle, and then the reflux will be of greater extent.
This happens when the flowing of the blood in the

pulmonary artery is retarded, either by obstacles in the lungs, or by the want of sufficient force in the ven-tricle. This redux, of which we speak, is the cause of the beating which is seen in the veins of certain sick persons, and which bears the name of venous pulse. Nothing similar can take place in the coronary vein, for its opening is furnished with a valve, which shuts on the instant of the contraction of the au-

The instant in which the auricle ceases to contract, the ventricle enters into contraction, the blood it contains is strongly pressed, and tends to escape in every tams is strongly pressed, and tends to escape in every direction; it would return so much more easily into the arricle, that, as we have already frequently said, it dilates just at this instant; but the tricuspid valve which shust the arrivalor entricador opening prevents this reflux. Being raised by the liquid introduced below it, and which tends to pass into the arrivel; it gives way until it has become perpendicular to the axis of the ventricle; its three divisions then shut almost completely the opening, and as the tendons of the columna carnea do not permit them to go farther, the valve resists the effort of the blood, and thus prevents it from passing into the auricle.

It is not the same with the blood, which, during the dilatation of the ventricle, corresponded to the auricular surface of the valve; it is evident that in the mo-tion of the ventricle it is carried forward into the auricle, where it mixes with that which comes from the

Not being able to overcome the resistance of the tricuspid valve, the blood of the ventricle has no other issue than the pulmonary artery, into which it enters by raising the three sigmoid valves that supported the column of blood contained in the artery during the di-

Suppose the artery full of blood, and left to itself, the liquid will be pressed in the whole extent of the vessel, by the sides which tend to contract upon the carity; the blood, being thus pressed, will endeavour to escape in every direction; now it has only two ways to pass, by the cardiac orifice, and by the numerous small vessels that terminate the artery in the tissue of

The orifice of the pulmonary artery in the heart heing very large, the blood would easily pass into the ventricle, if there were not a particular apparatus at ventricle, it there were not a particular apparatus at this orifice, intended to prevent this; the three signoid valves. Being pressed against the sides of the artery, at the instant that the ventricle sends a wave of blood that way, these folds become perpendicular to its axis; as soon as the blood tends to flow back into the ventricle, they place themselves so as to shut up the cavity of this vessel completely

On account of the bag-like form of the sigmoid valves, they are swelled by the blood that enters into valves, they are swened by the filode that enters into their cavity, and their margin tends to assume a circular figure. Now, three circular portions, placed upon each other, necessarily leave a space between them. When the valves, therefore, of the pulmonary artery are lowered by the blood, there ought to remain an opening by which this liquid may flow back into the

ventricle.

If each valve were alone, it would undoubtedly take a semicircular form; but there are three of thems

being pressed by the blood, they lie all close together: | the lungs, the quickness of the blood necessarily dithey cannot extend as far as their fibres permit them, they press upon each other, on account of the taem, they press upon each other, on account of the small space in which they are contained, and which does not permit their extending themselves. The valves then assume the figure of three triangles, whose summit is in the centre of the artery, and the sides are in juxta position, so as completely to intercept the cavity of the artery. Perhaps the knots, or buttons, which are upon the summit of some of the triangles, which are upon the summit of some of the triangles, are intended to shut more perfectly the centre of the

Finding no passage into the ventricle, the blood will pass into the radicles of the pulmonary veins, with which the small arteries that terminate the pulmonary artery form a continuation, and this passage will con-tinue as long as the sides of the artery press the con-tained blood with sufficient force; and, except in the trunk and the principal branches, this effect continues until the whole of the blood is expelled.

We might suppose the smallness of the vessels that terminate the pulmonary artery an obstacle to the flowing of the blood: that might be, if they were not numerous, or if the capacity of the whole were less, or even equal to that of the trunk; but as they are innumerable, and their capacity is much greater than that of the trunk, there is no difficulty in the motion. It is true that the distention or subsidence of the lungs ren-

ders this passage more or less casy.

In order that this flowing may take place with facility, the force of contraction of the different divisions lity, the force of contraction of the different divisions of the artery ought to be every where in relation to their size; if, on the contrary, that of the small were greater than that of the large, as soon as the first had expelled the blood by which they were filled, they would not be sufficiently distended by the blood coming from the second, and the flowing of the blood would be retarded; now, what takes place is quite the contrary of this supposition. If the pulmonary artery of a living animal were tied immediately above the heart, almost all the blood contained in the artery at the instant of the ligature, would pass quickly into the pulmonary veins, and arrive at the heart.

This is what happens when the blood contained in the pulmonary artery is exposed to the single action of

the pulmonary artery is exposed to the single action of this vessel; but in the common state, at each con-traction of the right ventricle, a certain quantity of blood is thrown with force into the artery; the valves are immediately raised; the artery, and almost all its divisions, re so much more distended, in proportion as the heart is more forcibly contracted, and as the quantity of blood injected into the artery is greater. The ventricle dilates immediately after its contraction, and at this instant the sides of the artery contract also the sigmoid valves descend and shut the pulmonary artery, until they are raised by a new contraction of

the ventricle.

Such is the second cause of the motion of the blood in the artery that goes towards the lungs: we see it is intermittent; let us endeavour to appreciate its effects for which purpose, let us consider the most apparent phenomena of the flow of the blood in the pulmonary

It has been just observed, that in the instant the ventricle injects the blood into the artery, the trunk, and all the divisions of a certain size, undergo an evident distation. This phenomenon is called the pulsa-tion of the artery. The pulsation is very sensible near the heart; it becomes feeble in proportion to its dis-tance from it; when the artery, by being divided, has become very small, it ceases.

Another phenomenon, which is only the conse-quence of the preceding, is observed when the artery

If it be near the heart, and in a place where the beating is sensible, the blood spouts out by jerks; if the opening be made far from the heart, and in a small division, the jet is continued and uniform; lastly, if one of the very small vessels that terminate the artery be opened, the blood flows, but without forming any jet; it flows uniformly in a sheet.

Jet: it flows uniformly in a sneet.

We see at first, in these phenomena, a new application of the principle of bydro dynamics, as already
mentioned, with regard to the influence of the size of
the tube upon the liquid that flows in it: the greater
the tube is, the rapidity is the less. This capacity of

With regard to the pulsation of the artery, and the jet of blood that escapes from it when it isopen, we see plainly that these two effects depend on the contraction of the right ventricle, and the introduction of a certain of the right ventricle, and the introduction of a certain quantity of blood into the artery, which takes place by this means while flowing through the small vessels that terminate the artery, and that give commence-ment to the pulmonary veins; the venous blood changes its nature by the effect of the contact of the air; it acquires the qualities of arterial blood; it is this change in the properties of the blood which essentially

At the instant in which the venous blood traverses the small vessels of the pulmonary folintes, it assumes a scarlet colour; its odour becomes stronger, and its taste more distinct, its temperature rises about a degree; a part of its serum disappears in the torm of va-pour in the tissue of the lobules, and mixes with the pour in the tissue of the lobules, and mixes with the air. Its tendency to coagulate augments considerably, which is expressed by saying that its plasticity becomes stronger, its specific gravity diminishes, as well as its capacity for caloric. The venous blood, having acquired these characters, now becomes actural blood, and enters the radicles of the pulmonary veins, which have their origin, like the veins properly so called, in the tissue of the lungs; that is, they form at first an infinite number of radicles, which appear to be the continuation of the pulmonary artery. These radicles unite to form 'lineke roots, which become still threker. Lastly, they all terminate in join vessels, which property Lastly, they all terminate in four vessels, which open. after a short passage, into the left auricle. The pul-monary veins are different from the other veins, in their not anastomosing after they have acquired a certain thickness; a similar disposition has been seen in the divisions of the artery which is distributed to

The pulmonary veins have no valves, and their structure is similar to that of the other veins; their middle membrane is, however, a little thicker, and it appears to possess more elasticity. The blood passes into the radicles of the pulmonary veins, and very soon reaches the trunk of these veins: in this passage it presents a gradually accelerated motion, in proportion as it passes from the small veius into the larger: finally, it does not at all flow by jerks, and it appears nearly equally rapid in the four pulmonary veius. From the pulmonary veins the left auricle receives

The mechanism by which the blood traverses the left auricle and ventricle is the same as that by which

the venous blood traverses the right cavities.

When the left auricle dilates, the blood of the four pulmonary veins enters and tills it; when it contracts, part of the blood passes into the ventricle, and part flows back into the pulmonary veins; when the ven-tricle dilates, it receives the blood which comes from the auricle, and a small quantity of that of the aorta; when it contracts, the mitral valve is raised, it shuts the auriculo-ventricular opening, and the blood, not being able to return into the auricle, it enters into the aorta by raising the three sigmoid valves, which were shut during the dilatation of the ventucle.

It is necessary to remark, however, that the fleshy columns having no existence in the auricle, their influence cannot exist as in the right, and the arterial ven-tricle being much thicker than the venous, it com-presses the blood with a much greater force than the right, which was indispensable on account of the dis-

tance to which it has to send this liquid.

Course of the blood in the aorta, and its divisions .-Notwithstanding the differences which exist between this and the pulmonary artery, the phenomena of the motion of the blood are nearly the same in both: thus a ligature being applied upon this vessel, near the heart, in a living animal, a contracts in its whole length, and, except a small quantity that remains in the principal arteries, the blood passes immediately into the veins.

Some authors doubt the fact of the contraction of the arteries; the following experiment may be made to convince them: uncover the carotid artery of a living annual the length of several inches; take the the tube upon the liquid that flows in it: the greater the tube is, the rapidity is the less. This capacity of the tube is, the rapidity is the less. This capacity of the tube is, the rapidity is the less. This capacity of the tube is the rapidity is the less. This capacity of the rapidity is the less than the rapidity is the less. This capacity of the rapidity is the less than the rapidity is the les

blood; make a small opening in the sides of this por- it to from 15 to 8 ounces. Where shall we find the tion of the artery, you will immediately see almost the truth in these contradictions? blood; make a small opening in the sides of this por-tion of the actery, you will immediately see almost the whole of the blood pass out, and it will even spout to a certain distance. Then measure the breadth with the compasses, and there will be no doubt of the artery being much contracted, if the rapid expulsion of the blood has not already convinced you. This experi-ment also proves that the force with which the artery contracts is unflicious, in a year did he blood that it concontracts is sufficient to expel the blood that it con-

Passage of the blood of the arteries into the veins .-When, in the dead body, an injection is thrown into an artery, it immediately returns by the corresponding an artery, it immediately returns by the corresponding vein: the same thing takes place, and with still more facility, if the injection is thrown into the artery of a living animal. In cold-blooded animals, the blood can be seen, by the aid of a microscope, passing from the arteries into the veins. The communication between arteries into the veins. The communication between these vessels is then direct, and very easy; it is natural to suppose that the heart, after having forced the blood to the last arterial twigs, continues to make it move into the venous radicies, and even into the veins. Harvey, and a great number of celebrated anatomists, Harvey, and a great number of celebrated anatomists, thought so. Lately, Bichât has been strongly against this doctrine: he has limited the influence of the blood; he pretends that it ceases entirely in the place where the atterial is changed into venous blood, that is, in the numerous small vessels that terminate the atteries and commence the veins. In this place, according to him, the action of the small vessels alone is the cause of the motion of the blood.

Remarks on the Movements of the Heart.—A. The right auricle and ventricle, the action of which we have studied separately, in reality form only one organ, which is the

rately, in reality form only one organ, which is the

The auricles contract and dilate together; the same thing takes place with the ventricles, whose move-

ments are simultaneous

When the contraction of the heart is spoken of, that of the ventricle is understood. Their contraction is called systole, their dilatation diastole.

B. Every time that the ventricles contract, the whole of the heart is rapidly carried forward, and the point of this organ strikes the left late alonge of the chest, opposite the internal of the sixth and seventh

The number of the pulsations of the heart is considerable; it is generally greater in proportion as

At birth it is from 130 to 140 in a minute.

At one year..... 120 to 130. At two years.... 100 to 110. At three years.... 90 to 100. 85 to 90. At seven years .... 80 to 85. At fourteen years 75 to 80. At adult age.... 65 to 75. At confirmed old age 60 to 65.

But these numbers vary according to an infinity of circumstances, sex, temperament, individual disposi-

The affections of the mind have a great influence upon the rapidity of the contractions of the heart; every one knows that even a slight emotion immedi-ately modifies the contractions, and generally accelerates them. In this respect great changes take place

D. Many researches have been made to determine with what force the ventricles contract. In order to with what force the ventricles contract. In order to appreciate that of the left ventricle, an experiment has been made, which consists in crossing the legs, and placing upon one knee the ham of the other legs, with a weight of 55 pounds appended to the extremity of the foot. This considerable weight, though placed at the extremity of such a long lever, is raised at each contraction of the ventricle, on account of the tendency to straighten the accidental curvature of the roolliesd arrety, when the legs are crossed in this popliteal artery, when the legs are crossed in this

This experiment shows that the force of contraction of the heart is very great; but it cannot give the exact value of it. Mechanical physiologists have made great efforts to express it in numbers. Borelli compares the force which keeps up the circulation to that which would be necessary to raise 180,000 pounds; Hales believes it to be 51 pounds 5 ounces; and Keil reduces placed upon them, as happens to arteries in soft parts.

truth in these contradictions? It seems impossible to know exactly the force developed by the heart in its contraction; it very probably varies according to numerous causes, such as age, the volume of the organ, the size of the individual, the particular disposition, the quantity of blood, the state of the nervous system, the action of

the organs, the state of health or of sickness, &c.
Ait that has been said of the force of the heart relates only to its contraction, its dilatation having been lates only to its contraction, its dilatation having been considered as a passive state, a sort of repose of the fibres; however, when the ventricles dilate, it is with a very great force, for example, capable of raising a weight of twenty pounds, as may be observed in animals recently dead. When the heart of a living animal is taken hold of by the hand, however small it may be, it is impossible by any effort to prevent the dilatation of the ventricles. The dilatation of the heart, thon. cannot be considered as a state of inaction or repose

E. The heart moves from the first days of existence

E. The heart moves from the first days of existence of the embryo to the instant of death by decrepitude.

Why does it move? This question has been asked by ancient and modern philosophers and physicologists. The wherefore of phenomena is not easy to be given in physiology; almost always what is taken for such is only in other terms the expression of the phenomena; but it is remarkable how easily we deceive ourselves in this respect; one of the strongest proofs of it is afforded by the different explanations of the motion of the beat of the motion of the bea

nations of the motion of the heart.

The ancients said that there was a pulsific virtue in The ancients said that there was a putsific vertice in the heart, a concentrated fire, that gave motion to this organ. Descartes imagined that an explosion as sudden as that of gunpowder took place in the heart. The motion of the heart was afterward attributed to the animal spirits, to the nervous fluid, to the soul, to the process of the nervous system, to the archea: Haller considers it as an effect of irritability. Lately, Legallois has endeavoured to prove, by experiments, that the principle or cause of the motion of the heart

Itemarks upon the circular Motion of the Blood, or the Circulation.—We now know all the links of the circular chain that the sanguiferous system repre-sents; we know how the blood is carried from the lungs toward all the other parts of the body, and how it returns from these parts to the heart. Let us examine these phenomena in a general manuer, in order to show the most important

has its seat in the spinal marrow

A. The quantity of blood contained in the system is very considerable. It has been estimated by several authors at from 24 to 30 pounds. This value cannot be at all exact, for the quantity of blood varies according to the control of the control o

ing to numerous causes.

The relation of the mass of the arterial with that of the venous blood, is somewhat better known. This last, contained in vessels larger than that of the arteries, is necessarily in greater quantity, though we can-not say exactly how much greater its mass is than that

the arterial blood.

of the arterial blood.

B. The circulatory path of the blood being continuous, and the capacity of the canal variable, the rapidity of this fluid must be variable also; for the same quantity must pass through all the points in a given time: observation confirms this. The rapidity is great in the trunk, and the principal divisions of the pulmonary artery and aorta: it diminishes much in the secondary divisions; it diminishes still more at the instant of the passage from the arteries into the veins; it continues passage from the arteries into the veins; it continues passage from the arteries into the veins; it continues to augment in proportion as the blood passes from the roots of the veins into larger roots, and lastly into the large veins; but the rapidity is never so great in the vense cave as in the aorta. In the trunks and the principal arterial divisions, the course of the blood is not only continued under the influence of the contraction of the arteries, but, besides, it flows in jerks by the effect of the contraction of the ventricles. This ierking manifests itself in the arteries by a simple divisions.

by the effect of the contraction of the ventricles. This jerking manifests itself in the arteries by a simple di latation in those that are straight, and by a dilatation and tendency to straighten in those which are flexuous. The pulse is formed by the first of these phenomena, to which the second is sometimes joined. It is not easy to study, in man or in the animals, except where the arteries are laid close upon a bone, because they do not then retire from under the finger when it is placed upon them, as happened to strettles in order to the stretch of the second in the stretch of the second in t

In general, the pulse makes known the principal modification of the contraction of the left ventricle, its quickness, its intensity, its weakness, its regularity, its irregularity. The quantity of the blood is also known by the pulse. If it is great, the artery is round, thick, and resisting. If the blood is in small quantity, the artery is small and easily flattened. Certain dispositions in the arteries have an infuence also upon the pulse, and may render it different in the principal

The beating of the arteries is necessarily felt in the organs which are next them, and so much more in proportion as the arteries are more voluminous, and as the organs give way with less facility. The jerk which they undergo is generally considered as favourable to their action, though no positive proof of it

In this respect none of the organs ought to be more affected than the brain. The four cerebral arteries unite in circles at the base of the skull, and raise the brain at each contraction of the ventricle, as it is easy to be convinced of by laying bare the brain of an auimal, or by observing this organ in wounds of the head. Probably, the numerous angular bendings of the internal carotid arteries, and of the vertebrals be-fore their entrance into the skull, are useful for moderating this shaking; these bendings must also neces-

When the arteries penetrate in a voluminous state Into the parenchyma of the organs, as the liver, the kidneys, &c., the organ must also receive a jerk at each contraction of the heart. The organs into which the vessels enter, after being divided and subdivided,

can suffer nothing similar.

D. From the lungs to the left auricle the blood is of the same nature; however, it sometimes happens that it is not the same in the four pulmonary veius. For instance, if the lungs are so changed that the air cannot penetrate into the lobules, the blood which transcription is the same of the property of the lobules, the blood which transcription is the same of the lobules, the blood which transcription is the same of the lobules. verses them will not be changed from venous to arterial blood; it will arrive at the heart without having unblood; it will arrive at the heart without having un-dergone this change; but in its passage through the left cavities it will be intimately mixed with that of the langs opposite. The blood is necessarily homoge-neous from the left ventricle to the last divisions of the aorta; but, being arrived at these small divisions, its elements separate; at least there exists a great num-her of parts, such as the serous membranes, the cellu-lar tissue, the tendons, the aponeuroses, the fibrous membranes, &cc., into which the red part of the blood is never seen to penetrate, and the capillaries of which contain only serum. contain only serum.

This separation of the elements of the blood takes place only in a state of health; when the parts that I have mentioned become diseased, it often happens that their small vessels contain blood, possessed of all

its characteristic properties.

There have been endeavours to explain this particular analysis of the blood by the small vessels. Boer-haave, who admitted several sorts of globules of dif-ferent sizes in the blood, said, that globules of a certain largeness could only pass into vessels of an appropriangueses come only has movesees of an appropri-ate size: we have seen that globules, such as they were admitted by Boerhaave, do not exist.

Bichât believed that there existed in the small ves-

sels a particular sensibility, by which they admitted only the part of the blood suitable to them. We have already frequently contested ideas of this kind; neither can they be admitted here; for the most irritating

ther can they be admitted here; for the most irritating liquids, introduced into the varience, without any opposition to their passage by the capillaries.

E. The elements of the blood separate in traversing by the capillaries.

E. The elements of the blood separate in traversing the fatty mutter is deposited in cells; here the mueus, there the fibrine; elsewhere are the foreign substances, which were accidentally mixed with the arterial blood. In losing these different elements, the blood assumes the qualities of venous blood. At the same time that the arterial blood supplies these losses, the small veins absorb the substances with which they are in contact. In the intestinal canal, for example, they are in contact. In the intestinal canal, for example, they are in contact. In the intestinal canal, for example, they are in contact to the lymph and the chyle into the venous system; it is certain, then, that the venous blood cannot be homogeneous, and that its composition must be variable in

the different veins; but, having reached the heart, by the motions of the right auricle and ventricle, and the disposition of the fleshy columns, the elements all mix

disposition of the desiry columns, the elements an max tegether, and when they are completely mixed, they pass into the pulmonary artery.

F. A general law of the economy is, that no organ continues to act without receiving arregial blood; from this results, that all the other functions are defrom this results, that air the other functions are de-pendent on the circulation; but the circulation, in its turn, cannot continue without the respiration by which the arterial blood is formed, and without the action of the nervous system, which has a great influaction of the nervous system, which has a great imme-ence upon the rapidity of the flowing of the blood, and upon its distribution in the organs. Indeed, under the action of the nervous system, the motion of the heart, and consequently the general quickness of the course of the blood, are quickened or retarded. of the blood, are quickened or retarded. Thus, when the organs act voluntarily or involuntarily, we learn from observation, that they receive a greater quantity of blood without the motion of the general circulation of blood without the motion of the general circulation being accelerated on that account; and if their action predominates, the arteries which are directed there, increase considerably. If, on the contrary, the action diminishes, or ceases entirely, the arteries become smaller, and permittently a small quantity to reach the organ. These phenomena are manifest in the muscles: the circulation becomes more rapid in them when they contact; if they are often contracted, the volume of their atteries increases; if they are paralyzed, the arteries become very small, and the pulse is scarcely (felt. scarcely felt.

The circulation, then, may be influenced by the nervous system in three ways; 1st, By modifying the motions of the heart; 2dly, By modifying the capillaries of the organs, so as to accelerate the flowing of the blood in them; 3dly, By producing the same effects in the lungs, that is, by rendering the course of the blood

more or less easy through this organ.

The acceleration of the motions of the heart becomes sensible to us by the manner in which the point of the organ strikes the walls of the chest. The difficulty of the capillary circulation is discovered by a feeling of numbness and a particular prickling; and when the pulmonary circulation is difficult, we are informed of it by an oppression or sense of suffication, more or less strong.

more or less strong.

Probably the distribution of the filaments of the great sympathetic on the sides of the arteries, has some important use; but this use is entirely unknown; we have received no light on the point by any experiment."—Magendie's Elements of Physiology.

CIRCULA TOR. (From circulo, to compass about.)

A wandering practiser in medicine. A quack; a

mountebank.

CIRCULATO'RIUM. (From circulo, to move round.) chemical digesting vessel in which the fluid pera circulatory motion.

RCULUS. (Dim. of circus, a circle.) 1. A cir-

CI'RCULUS. cle or ring. 2. Any part of the body which is round or annular.

as circulus oculi.

3. A round chemical instrument sometimes called abbreviatorium by the old chemists.

The artery which CIRCULUS ARTERIOSUS IRIDIS. runs round the iris and forms a circle, is so termed.

CIRCULUS QUADRUPLEX. A bandage.

CIRCUMCAULA'LIS. A name of the adnata of the

CIRCUMCI'SION. (Circumcisio, from circumcido,

internal plate of the pterygoid process by a round ten-don, which soon spreads into a broad membrane. It ton, which soon spreads into a troad membrane. It is inserted into the velum pendulum palati, and the semilunar edge of the os palati, and extends as far as the suture which joins the two bones. Generally the sature which John the two bones. Generally some of its posterior übres join with the censtrator pharyngis superior, and palato-pharyngeus. Its use is to stretch the velum, to draw it downwards, and to the side towards the hook. It hath fittle effect upon the tube, being chiefly connected to its osseous part CIRCUMGYRATIO. (From circumgyro, to turn the part of the property of the control of the property of t

Circumgyration, or the turning a limb round

in its socket.

CIRCUMLI'TIO. (From circumline, to anoint all over.) A medicine used as a general unction or lini-

over.) A medicine used as a general unction or limi-ment to the part. CIRCUMOSSA'LIS. (From circum, about, and os, a bone.) Surrounding a bone as the periosteum does; or surrounded by a bone. CIRCUMSCISUS. Circumcised. Applied to a membranous capsule, separating into two parts by a complete circular fissure.

CI RCUS. (Kipkos; from carka, a Chaldean word, to surround.) I. A circe or ring.

2. A circular bandage.

(From κφναω, to mix.) A union of CIRNE'SIS.

separate things:
CIRRUS. (From  $\kappa_{epas}$ , a horn, because it has the
appearance of a horn) Cirrhus. A clasper or tendril. One of the futers or props of plants. A long,
cylindrical, slender, spinal body, issuing from various

cylindrical section of parts of plants.

From their origin, Cirri are distinguished into,

1. Foltur, when they are a continuation of the midrib of a simple leaf; as in Fumaria claviculata, Mimosa scandens, and Gleriosa superba.

2. Petiolar, when teminating the common petiole

2. Petiolar, when teminating the common petiole

3. This is of a compound leaf; as in Pisum sativum. This is sometimes distinguished by the number of leaflets which grow under it: sence cirri diphylli, tetraphylli, and polyphylli.
3. Peduncular, when they proceed from the pedun-

de; as in Vitis vinefra.

4. Azillary, which arise from the stem or branches in the axillæ of the leaves; as in Passiflora incarnata.

5. Subarillary, when they originate below the leaf.
6. Lateral, when at the side of it; as in Bryonia. From the division of its apex, a Cirrus is

1. Simple, consisting of one undivided piece; as in Momordica balsaminea, Passiflora quadrangularis, and Bryonia dioica.

2. Compound, consisting of a stalk variously branched or divided.

3. Bifd, when it has two divisions; as in Vitis vi-nifera, Lathyrus palustris, Ervum tetraspermum, &c. 4. Trifid, when there are three; as in Bignonia unguns, and Lathyrus husulus. 5. Multifid, or branched, when the divisions are

more numerous; as in Lathyrus latifolius, and Cobea

scandens.

From its convolution into,

1. Convolute, when all the gyrations are regular in the same direction; as in Hedera quanquefolia.

2. Revolute, winding itself irregularly, sometimes on

one side, sometimes on the other; as in Passiflora in-

CIRROSUS. Having a cirrus or tendril. Applied to a leaf tipped with a tendril; as in Gloriosa and

to a leaf upper with a leadin, as in vioriosa and Hagellaria, two Indian plants.

Cirsum arvense. (From kapag, a vein, or swelling of a vein, which this herb was supposed to heal.)

The common way thistle, or Servatula arvenses of Linnæus

CIRSOCE'LE. See Circocele.
CIRSOI DES. (From κιρσος, a varix, and ειδος, likeness.) Resembling a varix: an epithet applied by Rufus Ephesius to the upper part of the brain. Cl'RSOS. (Κιοσος; from κιρσοω, to dilate.).

preternatural distention of any part of a vein. See

Ct'ssa. (From RIGGA, a gluttonous bird.) A de-praved appetite, proceeding from previous gluttony customy voracity.

CISSA MPELOS. (From κισσος, ivy, and αμπέλος, the vine.) The name of a genus of plants in the Lin-man system. Class, Diacia.; Order, Monadelphia.

The wild vine with leaves like ivy.

CITREA. See ('ttrus medica. CITREUM. (From citrus.) The citron-tree. See

CI'TRIC ACID. Acidum citricum. "The juice of

CISSAMPELOS PAREIRA. The systematic name of the Pareira brava; Pareira; Imbutaa; Butaa; Overo butua. The root of this plant, Cissampelos-folus peltutis cordates emarginates, of Linneus; a mative of South America and the West Indies, has no remarkable smell, but to the taste it manifests a notaremarkable smell, but to the taste k indames a nota-ble sweetness of the liquorice kind, together with a considerable bitterness, and a slight roughness covered by the sweet matter. The facts adduced on the utility by the sweet matter. The facts addaced on the utility of the radar pareiro brove in nephritic and calculous complaints, are principally by foreigners, and no remarkable instances of its efficacy are recorded by English practitioners.

CISSA RUS. See Cistus Creticus.
CISSA RUM. (Prom K10005, IVY.)
plaster mentioned by Æganeta.

A cyst.
The fourth CISTA. (From respect to lie.) A cyst. CISTE RNA. (From cista, a cyst.) The fourth ventricle of the brain is so called from its cavity; also the lacteal vessels in the breasts of women.

Ci'sthorus. See Cistus Creticus.

CISTIC. See Cystic.
CISTIC See Cystic.
CISTIC See Cystic.
CISTUS (Kto705, the derivation of which is uncertain; perhaps from kis, Heb.) The name of a genus of plauts in the Limman system. Class, Polyandra; Order, Monogynia. The Cistus.
Caspus Creaticus. The systematic name of the Caspus Creaticus. called also Cistus ladantera, Cisthorus; Cissarus; Dorycinium. Cistus—arborescens catipulatus, folisis spatulato-ovatis petiolatis enerviis scabris calepinis lanceolatis, of Linnaus. The resinous juice called ladanum exudes upon the leaves of this plant in Can-dia, where the inhabitants collect it by lightly rubbing

dia, where the inhabitants collect it by lightly rubbing the leaves with leather, and afterward scraping it off, and forming it into irregular masses for exportation. Three sorts of ladamin have been described by authors, but only two are to be met with in the shops. The best, which is very rare, is in dark-coloured masses, of the consistence of a soft plaster, and growing still softer on being handled; the other is in long rolls, coilsolver on being handled; the other is in long rous, con-ed up, much harder than the preceding, and not so dark. The first has commonly a small, and the last a large admixture of fine sand, without which they cannot be collected pure, independently of designed abuses: the dust blown on the plant by winds, from the loose sands

dust blown on the plant by winds, from the loose sands among which it grows, being retained by the tenacious juice. The soft kind has an agreeable smell, and a lightly pungent bitterish taste: the hard is much weaker. Ladanum was formerly much employed internally as a pectoral and adstringent in caterhal affections, dysenteries, and several other diseases; at present, however, it is wholly confined to external use, and is an ingredient in the stomachic plaster, emplastron badans.

trum ladani CISTUS HUMILIS. A name most probably of the Lichen caninus of Linnaus.

Lichen canimus of Linnusus.
CISTUS LADANIFERA. See Cistus creticus
CISTUS LEDON. See Ledum palustre.
CITE'SIUS (CITO18), FRANCIS, Of Poitiers, in
France, who, after graduating at Montpelier in 1596,
and practising a few years in his native city, went to
Paris, and acquired great celebrity, being made physician to Cardinal Richelieu. He published a treatise
on the Colica Pictonum, which was much esteemed,
noticinus in emphasician in pagisty's of the extremities. on the Couca Fictorium, which was much esteemed, noticing its termination in panalysis of the extremities. He also gave an account of a girl who had fasted for three years; in which case he appears to have been imposed upon. In another publication he advocated repeated bleeding, as well as purging, in small-pox, and other fevers of an inflammatory type. He died in 1652, at the advanced age of 80.
Ct'THARUS. (From κιθαρα, a harp.) The breast is

CITHARUS. (cross responses to the companies so named from its shape.
CITRA'GO. (From citrus, a citron; so called from a citron-like smell.) Citraria. Baum. See Me-

its citron-like smell.) CITRAS. (Citras, atis. fem.: from citrus, the lemon.) A citrate. A salt formed by the union of the citric acid, or acid of lemons, with the salifiable bases;

s citrale of ammonia, citrate of potassa. CITRATE. See Citras. CITREA. See Citrus medica.

lemons, or limes, has all the characters of an acid of considerable strength; but on account of the mucila-ginous matter with which it is mixed, it is very soon gmous matter with which it is mixed, it is very soon altered by spontaneous decomposition. Various methods have been contrived to prevent this effect from taking place, in order that this wholesome and agreeable acid might be preserved for use in long voyages, or other domestic occasions. The juice may beep in bottles under a thin stratum of oil, which indeed prevents, or greatly retards, its total decomposition; though the original fresh taste soon gives place to one which is much less grateful. In the East Indies it is evaporated to the consistence of a brick exto one which is much less grateful. In the East Indies it is evaporated to the consistence of a thick extract. If this operation be carefully performed by a very gentle heat, it is found to be very effectual. When the juice is thus heated, the muchage thickons, and separates in the form of flocks, part of which subside, and part rise to the surface: these must be taken out. The vapours which arise are not acid. If the evaporation be not carried so far as to deprive the liquid of the fluid it thanks how preserved in well alored. its fluidity, it may be long preserved in well closed bottles; in which, after some weeks standing, a far-ther portion of mucilage is separated, without any perceptible change in the acid.

ceptible change in the acid.

Of all the methods of preserving lemon-juice, that of concentrating it by frost appears to be the best, though in the warmer climates it caunot conveniently be practised. Lemon-juice, exposed to the air in a temperature between 50° and 60°, deposites in a few hours a white semi-transparent mucilagimous matter, which leaves the fluid, after decantation and filtration, much less alterable than before. This mucilage is not of a gummy nature, but resembles the gluten of wheat in the preserving it is preserving it in the preserving it is a preserving it in the preserving it in the preserving it is a pr in its properties: it is not soluble in water when dried More muchage is separated from lemon-juice by standing in closed vessels. If this depurated lemon-juice be exposed to a degree of cold of about seven or eight degrees below the freezing point, the aqueous part will freeze, and the ice may be taken away as it forms; and if the process be continued until the ice begins to exhibit signs of acidity, the remaining acid will be found to be reduced to about one-eighth of its original quantity, at the same time that its acidity will be eight times as intense, as is proved by its requiring eight times the quantity of alkali to saturate an equal portion of it. This concentrated acid may be kept for use, or, if preferred, it may be made into a dry lemonade, by adding six times its weight of fine loaf sugar

in powder.

The above processes may be used when the acid of lemons is wanted for domestic purposes, because they leave it in possession of the oils, or other principles, on which its flavour peculiarly depends; but in chemical researches, where the acid itself is required to be cal researches, where the acid itself is required to be had in the utmost purity, a more elaborate process must be used. Boiling Jemon-juice is to be saturated with powdered chalk, the weight of which is to be noted, and the powder must be stirred up from the bottom, or the vessel shaken from time to time. The neutral saline compound is scarcely more soluble in water than scientic; it therefore falls to the bottom, while the mucilage remains suspended in the watery fluid, which must be decanted off; the remaining prenuid, which must be decanted off; the remaining pre-cipitate must then be washed with warm water until it comes off clear. To the powder thus edulcorated, a quantity of sulphuric acid, equal the chalk in weight, and diluted with ten parts of water, must be added, and the mixture boiled a few minutes. The sulphuric acid combines with the earth, and forms sulphate of lime, which remains behind when the cold liquor is filtered, while the disengaged acid of lemons remains dissolved in the fluid. This last must be evaporated to the consistence of a thin syrup, which yields the pure citric acid in little needle-like crystals. It is never the culture acid to the consistence of a thin syrup, which yields the pure citric acid in little needle-like crystals. It is never the culture acid the state of the consistence of a consistence of the content of th cessary that the sulphuric acid should be rather in ex-cess, because the presence of a small quantity of lime will prevent the crystallization. This excess is allow-

Its taste is extremely sharp, so as to appear caustic

It is among the vegetable acids the one which most powerfully resists decomposition by fire.

In a dry and warm air it seems to effloresce; but it absorbs moisture when the air is damp, and at length loses its crystalline form. A hundred parts of this acid are soluble in seventy-rive of water at 699. Though it is less alterable than most other solutions of vegeta-ble acids, it will undergo decomposition when long kept.

It is not altered by any combustible substance : char-It is not altered by any combustible substance: char-cont alone appears to be capable of whitening it. The most power in a east decompose it less easily than they do other vegetable acads; the subpluric evidently con-verts it into acetic acad. The muric acid tikewise, if employed in large quantity, and heated on it a long time, converts the greater part of it into acetic acid, and a small portion into oxalic.

The setcate of time, has been mentioned already, in

The citrate of time has been mentioned already, in treating of the mode of purifying the acid.

The citrate of potassa is very soluble and deli-

quescent. The citrate of soda has a dull saline taste; dissolves in less than twice its weight of water, crystaltizes in six-sided prisms with flat summits; effloresces-signify, but does not fall to powder; boils up, swells, and is reduced to a coal on the fire. Lime water decomposes it, but does not render the solution turbid, notwithstanding the little solubility of citrate of time.

Citrate of amnonia is very soluble; does not crystallize unless its solution be greatly concentrated; and forms cloneated prisms.

forms elongated prisms.

Citrate of magnesia does not crystallize. When its solution had been boiled down, and it had stood some days, on being slightly shaken it fixed in one white

days, on heing slightly staken it fixed in one white opaque mass, which remained soft, separating from the sides of the vessel, contracting its dimensions, and rising in the middle like a kind of mushroom.

All the citrates are decomposed by the powerful acids, which do not form a precipitate with them, as with the oxalates and tartrates. The oxalic and tartartic acids decompose them, and form crystallized or misoluble precipitates in their solutions. All afford traces of acetic acid, or a product of the same nature, on being exposed to distillation, this character exists on being exposed to distillation: this character exists particularly in the metallic citrates. Placed on burnparticularly in the metanic citrates. Placed on burning coals they melt, swell up, emit an empyreumatic smell of acetic acid, and leave a light coal. All of them, if dissolved in water, and left to stand for a time, undergo decomposition, deposite a flocculent mucus which grows black, and leaves their bases combined with carbonic acid, one of the products of the decomposition. Before they are completely decomposed, they appear to pass to the state of acetates.

The affinities of the citric acid are arranged by Vauquelin in the following order: barytes, lime, potassa, soda, strontian, magnesia, ammonia, alumina. Those for zircone, glucine, and the metallic oxides, are not

The citric acid is found in many fruits united with the malic acid.

Citric acid being more costly than tartaric, may be occasionally adulterated with it. This fraud is discovered, by adding slowly to the acid dissolved in water a solution of subcarbonate of potassa, which will give a white pulverulent precipitate of tartar, if the citric be contaminated with the tartaric acid. When one part of citric acid is dissolved in 19 of water, the solution may be used as a substitute for lemon-juice. If before solution the crystals be triturated with a little sugar and a few drops of the oil of lemons, the re-semblance to the native juice will be complete. It is an antidote against sea scurvy; but the admixture of mucilage and other vegetable matter in the recent fruit of the lemon, has been supposed to render it preferable to the pure acid of the chemist."—Ure's Chem. Dict. CITRINA'TIO. Complete digestion.

CITRI'NULA. (A diminutive of citrus.) A small citron or lemon.

CITCHON See Citrus medica.
CITRON See Citrus medica.
Citrul, Sicilian. See Cucurbita citrullus.
CITRULLUS. See Cucurbita citrullus.
CITRUS. I. The name of a genus of plants in
the Linnæan system. Class, Polyadelphia; Order,

2. The name of the lemon. See Citrus medica.

2. Ale name of the lemon. See Citrus meaded. Citrus Aurantium. The systematic name of the orange tree and fruit. Aurantium; Aurantium Hispalense; Aurantium Chinense; Malus aurantia major; Malus aurantia valugaris; Mala aurea; Chrysomelia; Nerantia; Maritanum pomum; Poma aurantia. The China and Seville orange are both only varieties of the same species; Citrus—satisla, Maritanum pomum; same species: Catrus: -petiolis alatis, folus acumina tis, of Linneus. The latter is specified in our plan-macopenius; and the flowers, leaves, yellow rend, and juice, are made use of for different medical purposees.

The flowers, flores napha, are highly oderiferous, I aqueous bitter infusions; it is also ordered to be can-The Howers, pores nepher, are highly identificant, and are used as a per lumine; they are butter-to-free taste; they give their taste and smell both to water and to spirit, but most perfectly to rectified spini of wine. The water which is di-tilled from these flowers, is called aquat foram napha. In distillation, they died a small quantity of essential oil, which is called denon vel essentia neroli: they are brought from Italy and France. Orange flowers were, at one time, said to be a useful remedy in convulsive diseases; rience has not confirmed the virtues attributed

The waves have a bitterish taste, and yield, by distillation, an essential oil; indeed, by rubbing them between the fingers and the timmb, they mannest con-They have been applied for the same purposes as the flowers, but without success

The yellow rind of the trutt, freed from the white fungous part, has a grateful aromatic flavour, and a warm, bitterish taste. Infused in bottong water, it gives out nearly all its smell and taste; cold water extracts the bitter, but very latte of the flavour. In distillation, a lignt, fragrant, essential oil rises, without Its qualities are those of an aromatic and It has been employed to restore the tone of the billet. It has been employed to restore the fone of the stomach, and is a very common addition to combina-tions of bitters, used in dyspepsia. It has blewase been given in intermittents, in doses of a drachin, twice or thrice a day. It is also much celebrated as a powerful remedy, in menorthagia, and immoderate uterine evacuations.

uterine evacuations.

The jutice of Seville oranges is a grateful acid, which, by ullaying heat, quenching thirst, promoting various excretions, and diminishing the action of the sangai-ferous system, proves extremely useful in both ardent and patrid fevers; though the China orange jutice, as impregnated with a larger proportion of sugar, becomes more agreeable, and may be taken in larger quantities The Soville orange juice is particularly serviceable as an antiscorbutic, and alone will prevent or cure scurvy

an antiscorbutic, and alone will preventor cure scarvy in the most apparently desperate circumstances. In dyspepsia, from putrid bite in the stomach, both lemon and orange juice are highly useful.

CITRUES MEDICA. The systematic name of the lemon-tree. Lemon; Lemonic mala; Malus medica; Malus limonic acida; Citrea malus; Citrus. The tree which alfords the lemon is the Citrus:—petiolis limonic acida; Otture and the upper part of Asia, but cultivated in Spain, Portugal, and France. The juice, which is much more acid than that of the orange, possesses similar virtues. It is always preferred where a strong vegetable acid is required. Saturated with the fived vegetable akidi, it forms the citrate of podassa, which is in frequent extemporanecitrate of potassa, which is in frequent extemporane ous use in febrile diseases, and by promoting the secreous use in februle diseases, and by promoting the secre-tions, especially that of the skin, proves of considera-ble service in abating the violence of fever. This medicine is also often employed to restrain vomition. As an antiscrobatte, hemon juice has been often taken on board ships destined for long voyages; but even when well depurated of its muciliaginous parts, it is found to spoil by long keeping. To preserve it in purity for a considerable length of time, it is necessary that it should be brought to a highly concentrated that it should be brought to a highly concentrated state, and for this purpose it has been recommended to expose the juice to a degree of cold sufficient to con-geal the aqueous and mucilaginous parts. After a crust of ice is formed, the juice is poured into another crust of the istormen, the pince is poured into another vessel; and, by repeating this process several times, the remaining juice, it is said, has been concentrated to eight times its original strength, and kept without suffering any material change for several years. Whytt bound the juice of lemon to alla, hysterical palpitations of the heart, after various other medicines and home operational intelligence is not been considered. had been experienced ineffectual; and this juice, or that of oranges, taken to the quantity of four or six ounces in a day, has sometimes been found a remedy in the jaundice. The exterior rind of the lemon is a in the jaundice. very grateful aromatic bitter, not so hot as orange peel, and yielding in distillation a less quantity of oil, which is extremely light, almost colouriess, and generally brought from the southern parts of Europe, under the name of Essence of Lemons. The lemon-ped, though less warm, is similar in its qualities to that of the orange, and is employed with the same intentions. The pharmacoperas direct a syrup of the juice, syrupus limonis, and the peel enters into some vinous and

died; and the essential oil is an ingredient in some

The citrop-tree is also considered as belonging to the same species, the Citrus medica of Linners. Its fruit is called Cravinela, which is larger and less succellent is calced Consoneda, Which is successful news successive than the hemon; but in all other respects the citien and iomon trees agree. The entire june, when sweetened with sucar, is called by the Italians Jagor discover. The Circus mella visua of Lamarek, is another variety of the Circus melia visua of Linnaeus. It was produced, at first, cascully, by an Italians's grating a criton on a stuck of a bergamot pear-tree; whence the fruit produced by this union participated both of the circon-tree and the peri tree. The essence prepared from this fruit is called essence of bergamote and es sentia de cedra. CITTA. A

A voracious appetite.

CTTA. A Voracious appetue.
CTTO sis. See Chlorosis.
CTVET CAT. See Zabethum.
CTVE TTA. (From sebet, Arabian) Zibethum.
Civet; an uncluous odoriterous drug used by perfumers, collected between the anusand the organs of generation of a fierce carnivorous quadruped met with in Chuna and the East and West Indies, called a civecat, the Viverra Zabetham of Linnaus, but bearing a greater resemblance to a fox or marten than a cat.

Several of these animals have been brought into Several of these animals have been orought into Holland, and afford a considerable branch of commerce, particularly at Amsterdam. The civet is squeezed out in summer every other day, in winner twice a-week: the quantity procured at once is from two scruples to a drachm or more. The juige thus collected is much purer and finer than that which the animal sheds against shrubs or stones in its native climates.

Good civet is of a clear yellowish or brownish colour, not fluid nor hard, but about the consistence of butter or honey, and uniform throughout; of a very strong smell; quite offensive when undiluted; but agreeable when only a small portion of civet is mixed with a large one of other substances

Civet unites with oils, but not with alkohol. Its nature is therefore not resmous.

CLAP. See Gmorrhaa. CLA'RET. (Claretum; from clareo, to be clear.) A French wine, that may be given with great advantage, as a tonic and antiseptic, where red port wine disagrees with the patient; and in typhoid fevers of children, and deheate females, it is far preferable, as a

CLARETUM. 1. The wine called claret.

2. A wine impregnated with spices and sugar, called by some Vinum Hippocraticum.

3. A Claretum purposer composed of a vinous infusion of glass of antimony with cinnamon water and sugar, is mentioned by Schreder.

CLARIFICA'TIO. The depuration of any thing,

or process of freeing a fluid from heterogeneous mat-

or process of freeing a fluid from heterogeneous matter, or feculencies.

[\*\*CLARK, John.\*\* The name of John Clark has been, for a longer succession of years than any other in our country, distinguished in the ranks of medical practitioners. Of the earliest physician of that name, who probably came from England in 1631 or 1632, and after living a few years in Boston, removed to Rhode Island, where he died April 20in, 1676, filling a long course of service in administering to the religious as well as natural wants of his neighbours." He was succeeded by several individuals of the same name, who were all conspicuous members of the medical profession—Thach, Med. Biog. A.]

CLASS. (Classis; from Kahto, congreço, a class being nothing more than a multitude assembled apart.)

The name of a primary division of bodies in natural

The name of a primary division of bodies in natural

history.
CLARY. See Salvia.
CLASIS. (From κλαω, to break.) Clasma.

fracture.
CLACSTRUM. (From claudo, to shut.) Cleithrum gutturis. Any aperture which has a power of contracting itself, or closing its orifice by any means:

as its passage of the infoat.

Claustine virginitatis. The hymen.

Claustine virginitatis. The hymen.

Claustine of any canal or cavity in the body.

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clausura uter is a preternatural imperforation of the uterus; clausura unbuream Fallapaaram, a morind imperforation of the Fallaman tubes, mentioned by called agailaceous. The class form with water a Ruysch as one cause of intecundity.

Ruysch as one cause.

CLAVA RUGOSA. See Heoras calamus.

CLAVARIA. (From clava, a club.) The name of a genus of plants, Class, Cryptogamia; Order, Fungi. Club-shaped imagns.

Fungi. Club-shaped imagns. The systematic name

It was once used as a strengthener and

astringent. CLAVA'TIO. (From clava, a club.) A sort of articulation without motion, where the parts are, as it were, driven in with a hammer, like the teeth in the CLAVATUS. Clubbed.

Applied to parts of

plants, as the stigma of the Genipi.

CLAVELLATUS. (From claves, a wedge. The name cineres clavellati originated from the little wedges or billets, into which the wood was cut to burn for po-

Lassa.) See Potassa impura.
CLA'VICLE. (Clavicula, diminutive of clavis;
co called from its resemblance to an ancient key.) Collar bone. The clavicle is placed at the root of the neck, and at the upper part of the breast. It extends across, from the tip of the shoulder to the upper part of the sternum; it is a round bone, a little flattened towards the end, which joins the scapula; it is curved like an Italic S, having one curve turned out towards the breast: it is useful as an arch, supporting the shoulders, preventing them from falling forwards upon the breast, and making the hands strong antagonists to each other; which, without this steadying, they could not have been.

The thoracic end, that next the sternum, or what may be called the inner head of the clavicle, is round and flat, or button like; and it is received into a suita-ble holidow or the upper piece of the stemme. It is not only, like other joints, surrounded by a capsule or purse; it is further provided with a small moveable cartilage, which, like a friction wheel in machinery, saves the parts and facilitates the motions, and moves

continually as the clavicle moves,

community as me cavoes moves.

2. But the outward end of the clayicle is flattened, as it approaches the scapula, and the edge of that flatness is turned to the edge of the flattened acroning, so that they touch but in one single point. This outer end of the clavicle, and the corresponding point of the acromion, are flattened and covered with a crust of cartilage; but the motion here is very slight and quite insensible; they are tied firmly by strong ligaments and we may consider this as almost a fixed point, for there is little motion of the scapula upon the clavicle but there is much motion of the clavicle upon the breast, for the clavicle serves as a shaft, or axis, firmly tied to the scapula, upon which the scapula moves and turns, being connected with the trank only by this single point, viz. the articulation of the clavicle with

CLAVICULA. See Clavicle. CLAVICULUS. See Clavicle

CLAVICELUS. See Clawette.
CLAVICS. (Prom claudo, to shut.) The clavicle.
CLAVUS. (A nail.) 1. A corn called clawus,
from 1st resemblance to the head of a nail. Exployme
clawas of Good. A roundish, horny, cutaneous extiberance, with a central nucleus, sensible at its base;
conditions of the foundation of the control of found chiefly on the toes, from the pressure of tight

shoes 2. A painful and often an intermitting affection of the head, and mostly a severe pulsating pain in the forehead, which may be covered by one's thumb, giving a sensation like as if a nail were driven into the When connected with hysterics, it is called

3. An artificial palate. 4. Diseased uterus.

CLAVUS HYSTERICUS. See Clavus.

CLAVUS OCULORUM. A staphyloma, or tumour on

the eyelids.

CLAV. Argilla. Argillaceous earth, of which there are many kinds, and being opaque and noncrys-talized bodies, of dull tracture, afford no good princi-ple for determining their species; yet as they are ex-tensively distributed in nature, and are used in many arts, they deserve particular attention. The auxilia-ceous minerals are all sufficiently and in the auxiliaceous minerals are all sufficiently soft to be scratched called argillaceous. The clays form with water a plastic paste, possessing considerable tenacity, which hardens with heat, so as to strike fire with steel. Marles and chaiks also soften in water, but their paste is not tenaceous, nor does it acquire a siliceous inaches in the fire. The affinity of the clays for mois, re is manifested by their sticking to the tongue, and by the intense heat necessary to make them per feetly dry. The odour ascribed to clays breathed upon, is due to the oxide of iron mixed with them. Absolutely pure clays emit no smell.

1. Porcelum carth, the kaolin of the Chinese .- This nineral is finable, meagre to the tonch, and, when pure, forms with difficulty a paste with water.

2. Potter's clay, or plustic clay.—The clays of this variety are compact, smooth, and almost unctuous to

variety are compact, smooth, and amount unctuous to the touch, and may be polished by the finger when they are dry. They have a great affinity to water, form a tenacious paste, and adhere strongly to the tongue.

3. Loam - This is an impure potter's clay, mixed with mica and iron othre.

4. Varigated clay.—Is striped or spotted with white, red, or yellow colours.

5. State clay.—Colour, gray or grayish-yellow.

S. Settle eng.—Contain, gray of graying yenow.
 Conjugation.—Colling, gray, of various shades, sometimes red, and spotted, or striped.
 Addisserve-slate.—Colour, high-greenish gray.
 Polishing slate of Werner.—Colour, cream-yel-

low, in alternate stripes. 9. Common clay may be considered to be the same as loam.

as toubs.

CLAY, PURE. See Alumina.

CLAY-SLATE. Argillaceous slate. Argillite of Kirwan. A mineral which is extensively distributed, forming a part of both primitive and transition moun-

forming a part of both primitive and transition mountains of slate, is foand in many countries.

["CLAYTON, Dr. John, an eminent botanist and physician, of Virginia, was born in England in 1685, and canide to Virginia in 1695, and resided near Williamsburg. He was elected a member of several of the first the any societies of Europe, and corresponded with many of the most learned naturalists of that period. As a practical botanist, he was; probably, not inferior to any one of the age. He passed a long life in exploring and describing the plants of his country, and is samonsed to have enlarged the botanical cataand is supposed to have enlarged the botanical cataand is supposed to have enlarged the botanical cata-legue as much as any man who ever lived. He is the author of "Flora Vinginica," a work published by Gronovius at Leyden, 8vo. in 1759, 1743, and 1762. He published in the philosophical transactions several communications, treating of the culture of the differ-ent species of tobacço, and an ample account of the medicinel plants which neshad discovered in Vincinia. He also left behind him two volumes of manuscript method and the coses and allows Security in the costs and allows Security in the costs and allows Sec neatly prepared for the press, and a Hortus Siccus with marginal notes and reterences for the engraver who should prepare the plates for his proposed work. He died December 15th, 1773, in the 88th year of his age. During the year preceding his decease, such was the vigour of his constitution, even at this advanced peand such was his zeal in botanical researches, that he made a botanical tour through Orange County; and it is believed that he had visited most of the set tled parts of Virginia. His character stands very high as a man of integrity, and as a good citizen."-Thuch.

And. Prog. A. V. V. LAVTON, Dr. JOSHUA, was Governor of the State of Delawate, and a member of the United States Scante: he died in 1729. He was highly respectable in the medical profession, in which he practised for

many years. In 1792, he addressed a friend as follows: "During In 1792, he addressed a friend as follows: a During the late war, the Peruvian bank was very searce and dear. I was at that time engaged in considerable practice, and was under the necessity of seeking a substitute for the Peruvian bank. I conceived that the popiar, Limberghoun tubpriera, had more aromatic and latter than the Peruvian, and less astringency. To correct and amend those qualities, I added to it meanly an equal quantity of the bank of the root of downood, cornus florida, and half the quantity of the insule bank of the vibra of the root of convoiding the control of the con

of race-equal in mossing conservations. It uses a fit every species of intermittent, gaugetens, mortheatmons, and in short, every case of debuty. — Tracei. Man. Fing. A. CLEAN AGE. This term is applied to the meeting mical division of crystals, by showing the direction in which their lamena can separate, enables us to deter-mine the mutual inclination of these lamena: Wer-ner called it discelbrang, but he attended only to the number of directions in which this mechanical division of the plates, or cleavage, could be effected. In cleavage may be frequently seen, without using any

cleavage may be frequently seen, without using any mechanical violence.

CLEAVERS. See Galium aparine.

CLEGHORN, Georgoe, was born near Edinburgh, in 1716, and, after studying in that city, went at the age of twenty by Minorea, as a regimental surgeon. During the thinteen years that he spent there, he sedulously studied the natural productions of the island. In 1706, coming to London, he published his "Treatise on the Diseases of Minorea," which displays great observation and ability. He then went to Dublin, and gave lectures on anatomy with such success, that gave rectires on anatomy with such success, that he was soon after appointed public professor; and in 1774, an honorary member of the College of Physicians there. He died in 1789, Cart roto. Chidion. The epithet of a pastil, described by Galen and Paulus Ægineta; and it is the name also of an epithem described by Aétius.

CLEIDO MA. (From κλειδου, to close.) A pastil, or troch. Also the clavicle.
CLEIDOMASTOIDE US. (From κλεις, the clavicle, and μασσειδης, the mastoid process.) See Sterno-

CLEISA GRA. (From  $\kappa\lambda\epsilon\iota\varsigma$ , the clavicle, and  $\mu\gamma\rho\alpha$ , prey.) The gout in the atticulation of the clavicles. a prey.) The gout in the atticulation of the clavicles CLEI'THRON. (From κλειδω, to shut.) See Claus.

trum. CLE'MATIS. (From κλημα, a tendril; so named from its climbing up trees, or any thing it can tasten upon with its tendrils.) The name of a genus of plants in the Linnaan system. Class, Polgandria; Order,

Polygynia. CLEMATIS RECTA. The systematic name of the upright virgin's-bower. Flammula Jovis. Clematis -folios pranatis, foliolis ocato lanccolates integerrimus, caule crecto, floribus pentapetalis tetrapetalisque of Linneus. More praises have been bestowed upon the virtue which the leaves of this plant are said to the virtue which the leaves of this plant are said to possess, when exhibited internally, as antivenereal, by foreign physicians, than its trials in this country can justify. The powdered leaves are sometimes applied

externally to ulcers, as an escharotic.

CLEMATIS VITABLA. The systematic name of the traveller's-joy. Vitalba; Atragene; Viorna; Clematis arthrageneol Theophinasus. This plant is common in our hedges, and is the Chematis—joint punntius, follohs coviatis scondentibus, of Limagus. Its leaves, when fresh, produce a warmth on the tongue, and if the chowing is continued hoston cover. and if the chewing is continued, busters arise. same effect follows their being subbed on the skin. The plant has been administered internally to cure lues venerea, scrotula, and rheumatism. In France, the young sprouts are caten, when boiled, as hoptops

the young again the same as clematis.

CLEMATI TIS. The same as clematis.

The name of a collyrium described by Celsus.
CLEONIS GLUTEN.

An astringent formula of myrrh,

CLEVEN. An astringent formula of myrrh, frankmeense, and white of egg mixed together.

CLE PSYDRA. (From κλεπτα, to conceal, and υδωρ, water.) Properly, an instrument to measure time by the dropping of water through a look, from one vessel, perforated in the same manner. It is also an instrument mentioned by Paracelsus, contrived to conveysuffirmizations to the uterus in hysterical cases.

CLEVER, ANDERW, was born at Cassel, in the beginning of the 17th century. Afterstudying medianne, he went as physician to Batavia, where he resided many years. He transmitted several interesting communications to the imperial Academy of which he had been chosen a member, paracularly "An Account of Hydatids found in a Human Stomach," and "Of the Custom of the Indians of taking Opinm:" also descriptions and drawings of the plants indigenous in Java, especially the moxa, ginseng, and tea plant. He 238

at least equal if not superior success. I used it in every | likewise published, in 1680, a curious specimen of Chinese medicine.

Uninese mentine.
(LIBANUS: (Quasi καλιβανος; from καλυπ7ω, to conceal.) A portable furnace, or still, in which the

conseal.) A portable furnace, or still, in which the materials to be wrought on are shit up.

CLIFTON, Francis, after studying at Oxford, came to London, and was admitted Fellow of the College of Physicians, as well as of the Royal Society, about the year 1730. Two years after, he published on "The State of Physic, ancient and modern, with a Plan for improving it," in which a law is proposed, to compel practitioners to send to a public institution descriptions of the several cases which come under their care. He was also author of "A plain and suedescriptions of the several cases which come under their care. He was also author of "A plain and sure Way of practising Physic;" and translated some parts of Hippocrates into English, with notes.

CLIMA CTER. (From κλιμάζω, to proceed gradually.) The progression of the life of main. It is usually divided into periods of seven years.

Climacteric. See Septemery.

CLIMATE. The prevailing constitution of the atmosphere, relative to heat, wind, and moisture, peculiar to any region. This depends chiefly on the latitude of the place, its elevation above the level of the sea and its insular control of the sea. sea, and its insular or continental position. Springs which issue from a considerable depth, and caves about 50 feet under the surface, preserve a uniform temperature through all the viossitudes of the season.

temperature through all the vici-situdes of the season. This is the mean temperature of that country. It appears or y probable, that the climates of European countries were more severe in ancient times than they are at present. Owsar says, that the vine could not be cultivated in Gaul, on account of its wintercold. The rein-deer, now found only in the zone of Lapland, was then an inhabitant of the Pyrenees. The Thier was frequently frozen over, and the ground about Rome covered with snow for several weeks together, which almost never languages by my the country of the c about Rome covered with show for several weeks to-gether, which almost never happens in our times. The Rhine and the Danube, in the reign of Augustus, were generally frozen over for several months of win-ter. The barbarians, who overran the Roman empire a few centuries afterward, transported their armies and wagons across the ice of these rivers. The improvement that is continually taking place in the climate of ment that is continually taking place in the climate of America, proves, that the power of man extends to phenomena, which, from the magnitude and variety of their causes, seemed entirely beyond his control. At Guigna, in South America, within five degrees of the line, the inhabitants living amid immense forests, a characteristic of the cold by evening fires. Even the duration of the rainy season has been shortened by the clearing of the country, and the warmth is so invessed that a few country, and the warmth is so increased, that a fire now would be deemed an annoyance. It thunders now would be deemed an annoyance. It thunders continually in the woods, rarely in the cultivated

Drainage of the ground, and removal of forests, however, cannot be reckoned among the sources of the increased warmth of the Italian winters. Chemical writers have omitted to notice an astronomical cause of the progressive amelioration of the climates of the northern hemisphere. In consequence of the apogee portion of the terrestrial orbit being contained between our vernal and autumnal equinox, our summer half of the year, or the interval which elapses between the sun's crossing the equator in spring, and in autumn, is about seeen days longer than our winter half year. Hence also, one reason for the relative coldness of the southern hemisphere.

[While Dr. Priestley was engaged, during the month of July, 1801, in making experiments with a double convex lens upon some metallic substances at Northumberland, in Pennsylvania, he wrote thus to Dr. Mitchill: beriand, it I climby realization of the state of the stat land I have often waited months; and the days in which I could use a burning lens have not, I am confident, exceeded one fortnight in some whole years, and I have often watched every gleam the year through. I think the climate of this country greatly preferable to that of England "—Med. Repos. A.] CLIMAX. (From κλιμαξω, to proceed.) A name of some antidotes, which, in regular proportion, increased or diminished the ingredients of which it was composed, e.g. R. (Bagnadrina, Z. III. Centurgi, Z. II.)

composed, e. g. R. Chamædryos 3 jij. Centaurii 3 ji

Climbing birthwort. See Aristolochia clematitis.

Climbing stem. See Caulis.
CLI NICAL. (Clinicus; from κλινη, a bed.) Any thing concerning a bed: thus clinical lectures, notes, a chinical physician, &c.; which mean lectures given at the bedside, observations taken from patients when in bed, a physician who visits his patients in their

bed, &c.
CLINKSTONE. A stone of an imperfectly slaty
nature, which rings like metal, when struck with a

Chi Nolb. (Clinoideus; from κλινη, a bed, and εἰδος, resemblance.) Resembling a bed. The four processes surrounding the sella turcica of the sphenoid bone are so called, of which two are anterior, and two posterior.

CLINOMASTOIDE'US. A corruption of cleidomastoi-

CLINOMETER. An instrument for measuring the dip of mineral strata.

Chi'ssus. A chemical term denoting mineral compound spirits; but antimony is considered as the basis clyssi. See Clyssus.

CLITO RIDIS MUSCULUS. See Erector clitoridis. CLI TORIS. (From x\u03b3\u03b3\u03b3) en close, or hide; because it is hid by the labia pudendorum.) Columetta. A small glandiform body, like a penis in miniature, ord file and the columnia to the condition of the columnia to the columnia t A small glandiform body, like a pents in miniture, and, like it, covered with a prepace, or fore-skin. It is situated above the nymphae, and before the opening of the urinary passage of women. Anatomy has discovered, that the clitoris is composed, like the penis, of a cavernous substance, and of a glans, which has no perforation, but is like that of the penis, exquisitely sensible. The clitoris is the principal seat of plea-sure: during coition it is distended with blood, and after the venereal orgasm it becomes flaccid and falls. Instances have occurred where the clitoris was so enlarged as to enable the female to have venereal comlarged as to enable the female to have cenereal con-merce with others; and, in Paris, this fact was made a public exhibition of to the faculty. Women thus formed appear to partake, in their general form, less of the female character, and are termed hermaphro-dites. The clitoris in children is larger, in proportion, than in full-grown women: it often projects beyond the external labia at birth.

CLITORI'SMUS. (From κλειγορις; the clitoris.)
An enlargement of the clitoris.

CLO'NIC. (From κλονεω, to move to and fro.) See Convulsion.

CLONO'DES. (From κλονεω, to agitate.) A strong

unequal puise. CLONUS. (From κλονεω), to agitate.) The name of a genus of disease in the Class, Neuroses; Order, Lenetrea, of Good's Nosology. Clonic spasm, com

Jenucaca, in Godu S. Nosmogy. Closa espasin, com-prising ax species: Clonus singular, sternulato, pal-pitatio, nicitatio, subsultus, and pradiculato. ["CLOSSEY, SAMUEL, M.D. was an Irish physi-cian, of very respectable attainments, who established himself in medical practice in New-York. He had, previously to his arrival in America, attained a high degree of eminence in the medical profession, both as a practitioner, and an author of an interesting volume a pactuoiner, and an author of an interesting volunte on morbid anatomy; this was entitled "Observations on some of the Diseases of the Human Body, chiefly taken from the Diseaseins of Morbid Bodies;" it was published in London in 1763. He was for a short time chosen to the anatomical chair, and the professorship of Natural Philosophy in King's College, now Sofsing of Natural Philosophy in King's College, now Columbia College. Upon the organization of the first medical school in New-York, in 1768, Dr. Clossey was Chosen the professor of Anatomy, and directed his bours with great assidity to the establishment of that institution. Political difficulties in the American government, caused him to return to his own country, where he died a short time after his arrival."- Thuch.

where he died a short time atterns a Med. Biog. A.]
CLOVE. See Eugenia carpophyllata.
Clove-bark. See Myrtus carpophyllata.
Clove-bark. See Dianthus carpophyllus.
Clove-prik. See Dianthus carpophyllus.
Clove-prik. See Dianthus carpophyllus.
Clove-prik. See Dianthus carpophyllus.
Clow-Ed. See Leaf.
CLOWES, WILLIAM, an eminent English surgeon
C. the Will continue, received his clue ation under of the 16th century, received his education under George Keble, whose skill he strongly commends. After serving for some time professionally in the navy, he settled in London, and was made surgeon to Christ's and St. Bartholomew's hospitals, and appears to have

had considerable practice. In 1386, he was sent to the Low Countries, to the assistance of the army under the Earl of Leicester; and on his return was appointed surgeon to the Queen. His works are in the English strigeon to the Queen. His works are in the English language, but evince much learning, as well as skid in his profession. The first which he published was on the lues venerea, in 1565; in which he nonces the increasing frequency of that disease, and states that in five years he had cured above a thousand patients labouring under it at St. Bartholomew's hospital. But bouring under it at St. Bartholomew's hospital. But his most celebrated publication appeared three years after, on the method of treating wounds of various kinds, the result of extensive experience, sanctioned by references to the most approved writers. He appears to have possessed as enlarged understanding, and was very severe on all quacks and impostors; and he may justly be reckoned among the restorers and improvers of surgery in modern times.

CLUNE'SIA. (From chanes, the buttocks.) An inflammation of the buttocks.

CLU'PEA. The name of a genus of fishes, in the Linnæan system.

CLUPEA ALOSA. The Linnwan name for the shad or chad, the flesh of which is by some commended as a restorative

[CLUPEA is the generic name for the herring tribe, to which the shad belongs, and which is the best and largest of them all. It is one of the most excellent eatable fish that frequents the waters of the United States. It is a migratory hish appearing on our coast in March and April, and disappearing by June. It comes from the Gult of Mexico, and in its course northwardiy, ascends our fresh water rivers to deposite its spawn. It is taken in immense numbers in the Delaware, the Hudson, and the Connecticut rivers, in April and May. After depositing its spawn in the upper and small branches of these fresh streams, the shad returns to the ocean, so altered in shape and size as hardly to be known for the same fish; and hence it is called managers shad, not fit to eat, and not suffered to be sold in the New-York markets. A.]

CLUPPEA ENGRASCOLES. The auchovy, a little fish found in great abundance about the island of Gorgona.

tound in great abundance about the island of Gorgona, mear Leghorn. It is supposed the ancient Greeks and Romans prepared a kind of garum for the table from this fish. Its principal use is, as a sauce for seasoning. CLU'SIA. (So called in memory of Charles Clusius, an eminent botanist.) The name of a genus of plants in the Limman system. Class, Polygamia; Older Monecia. Balsamitres.

plants in the Liniagan system. Class, Polygamia; Order, Monaccia. Balsam-tree. CLU STER. See faceous. CLU'TIA. (Named after Chyt, and sometimes spelled cluytics.) The name of a genus of plants in the Liniagan system. Class, Diaccia; Order, Gynandria. Classia, Eleverrera. The systematic name of the

tree which is by some supposed to afford the cascarilla

CLCY'TIA. See Clutia. CLY DON. Κλυδων. A fluctuation and flatulency in the stomach.

CLYPEA'LIS. (From clypeus, a shield.) Formed like a shield.
CLY'SMUS. (From κλυζω, to wash.) Clysma.

A glyster.

Clissus. A term anciently used by the chemists for medicines made by the reunion of different principles, as oil, salt, and spirit, by long digestion; but it is not now practised, and the term is almost lost.

Cir's ren. (Clysterium. From κλυζω, to cleanse.)
A glyster. See Finema.
CYE MIA. (From runn)

CNE MIA. (From  $\kappa\nu\eta\mu\eta$ , the tibia.) Any part connected with the tibia.

(From κυημη, the tibia, and (\Setto DACTLE VIS. (From κισμη, the tibia, and δακ Γολος a fineer, or too.) A musele, the origin of which is in the tibia, and insertion in the toes. See Extensor longus digitarum petis. (NE SIS. (From κασω, to scratch.) Cnismos. A

Paninth belines.

Criticalor. (From kyrkos, enicus, and edatov, oil.)

Oil made of the seeds of enicus. Its virtues are the
same with those of the ricinus, but in an inferior de-

CNICUS. (From κναω, to scratch.) The plant used by Hippocrates by this name, is supposed to be

the carthamus; but mode in botanists exclude it from I fusible metal, of a reddish-gray colour, of little hatre, the species of this plant.

CNICUS CERNUUS. The systematic name of the

nodding cuicus, the tender stalks of which are, when boiled and peeled, eaten by the Siberians as a food. CNIGUS LANATUS. Cha melim verum. The distaff

Formerly used as a depuration, but now for-

UNICUS OLERACEUS. Round-leaved meadow thistle. The leaves of this plant are boiled in the northern parts of Europe, and eaten as we do cabbage.

UNIOUS SYLVESTRIS. See Centaurea benedicta.

CNDIA GRANA. See Daphne mescreum.
CNDII COCCI. See Daphne mescreum.
CNDII GRANA. See Daphne mescreum.
CNDII GRANA. See Daphne mescreum.
CNIDOSIS. (From xvidy, the nettle.)

1. An itching sensation, such as is perceived from the nettle.

2. A dry ophthalmy.

CMIPO TES. An itching. CNI SMOS. See Cnesis.

CNI SMOS. See Cnesis.
CNY MA. (From κναω, to scrape, or grate.) In Hippocrates it signifies a rasure, puncture, or vellication: also the same as cnesis.

COADUNATA: (From coa dunarc, to join or gather together.) The name of an order of plants, in Linnews's Fragments of a Natural Method.

COA GULABLE. Posst sing the property of co-

COAGULABLE. Possessing the property of co-agulation. See Albaman.

Congulable lumph. See Albaman.

COAGULANT. (Congulans; from congulo, to in-crassate, or coulde.) Having the power of congulating the blood or juices flowing it om it.

COAGULATION. (Congulatio; from con, and ego, to drive together.) The separation of the conguego, to drive together.) The separation of the coagu-lable particles, contained in any fluid, from the more thin and not coagulable particles: thus, when mik curdles, the coagulable particles form the curd; and when acids are thrown into any fluid containing coagulable particles, they form what is called a congulum.

COA'GULUM. A term at phed frequently to blood and other fluids, when they assume a jelly-like con-

SISTENCY.

COAGULUM ALUMINIS. Titis is made by beating the white of eggs with a little altum, until it forms a coagulum. It is recommended as an efficacious application to relaxations of the communication to relaxations of

COAK. Charred coal.

["The substance called colle is light, spongy, and 1° The substance cancer coke is light, spongy, and of a shining steel-gary colour. It burns less easily than coal, but produces a great heat, and does not cake nor smoke. The preparation of coke may be conducted in the same manner as that of charcoal from wood. By this process, from 760 to 1000 hos of coke are obtained from one ton of coal; but the volatileare obtained from one ton of coal; but the volatile products, consisting of bitumen, or coal-tar, and ammonia, are lost. For collecting these, a plan has been contrived by Lord Dundonald, and successfully executed. The coke is prepared in ovens, or stoves, almost close; and from 120 tons of coal are collected about 3½ tons of tar, and a quantity of ammoniacal salt."—Cleav. Min.

In the modern process of reaking gas for burning from bituminous coal, the profit arises principally from preserving the coak and ammoniacal liquor, while most

of the tar is decomposed and converted into gas. A. COAL. A combustible mineral, of which there are many species.

COALTE RNE FERRES. (From con, and alternus, alternate.) Fevers mentioned by Bellini, which he describes as two fevers affecting the same patient, and the paroxysm of one approaching as that of the other subsid

COARCTA'TIO. (From coarcto, to straighten.)
The contraction or diminntien of any thing. Formerly applied to the pulse: it meant a lessening in

COARCTATUS. Crowded. A panicle is so called, which is dense or crowded; as in Phleum paniculatum, the inflorescence of which lebks, at first sight, like a cylindrical spike; but when bent to either side, separates into branched lobes, constituting a real panicle.

COARTICULATIO. (From con, and orticulation, an articulation.) That sort of articulation which has manifest motion.

COBALT. A brittle, some what soft, but difficultly

fusible metal, of a reddish-gray colour, of little hatter, and a sp. gr. of 8.6. Its melting point is said to be 1300 Wedgewood. It is generally-associated in its ores with mekel, arsenic, iron, and copper; and the cobalt of commerce usually contains a proportion of these metals. To separate them, calcine with four parts of nitre, and wash away, with hot water, the soluble arseniate of potassa. Dissolve the residuum in dilute nitric acid, and immerse a plate of iron in the solution, to precipitate the copper. Filter the figuid and evaporate to dryness. Digest the mass with water of ammonia, when will dissolve point he oxidos of mekel. ammonia, which will dissolve only the oxides of nickel and cobalt. Having expelled the excess of alkali by and consil. Having expendent the clear ammoniacal solution, add cautionsly water of potassa, which will precipitate the oxide of nickel. Filter immediately, and boil the liquid, which will throw down the pure oxide of cobalt. It is reduced to the metallic state by ignition in contact with lamp-black and oil. Laugier treats the above ammoniacal solution with oxalic acid. He then redissolves the precipitated oxalates of nickel and cobalt in concentrated water of ammonia, and exposes cobalt in concentrated water of animonia, and exposes the solution to the air. As the ammonia exhales, oxalate of nickel, mixed with ammonia, is deposited. The nickel is entirely separated from the liquid by repeated crystallizations. Their remains a combination of oxalate of cobalt and ammonia, which is easily reduced by charcoal to the metallic state. The small quantity of cobalt remaining in the precipitated salt of nickel, is separated by digestion in water of ammonia. Cobait is susceptible of magnetism, but in a lower

degree than steel and nickel. Oxygen combines with cobalt in two proportions; Oxygen commines with could in two proportions; forming the dark-blue protoxide, and the black deutoxide. The first dissolves in acids without effervescence. It is procured by igniting gently in a retort the oxide precipitated by potassa from the nitric solution. Prout says, the first oxide consists of 100 metal + 19.8 oxygen; and Rotholf makes the composition of the deutoxide 100 + 36.77. If we call the first 18.5, and the second 37; then the prime equivalent of cobalt will be 5.4; and the two oxides will consist of

| Protox. | Cobalt, 5.4 | 100  | 84.38  |
|---------|-------------|------|--------|
|         | Oxygen, 1.0 | 18.5 | 15.62  |
|         |             |      | 100.00 |
| Deutox. | Cobalt, 5.4 | 100  | 73     |
|         | Oxygen, 2.0 | 37   | 27     |
|         |             |      | 100    |

The precipitated oxide of cobalt, washed and gently heated in contact with air, passes into the state of black peroxide.

When cobalt is heated in chlorine, it takes fire, and forms the chtoride. The iodide, phosphuret, and sul-phuret of this metal, have not been much examined.

The salts of cobalt are interesting from the remarkable changes of colour which they can exhibit.

able changes of colour which they can exhibit.

Their solution is red in the neutral state, but green with a slight excess of acid; the alkalies occasion a blue-coloured precipitate from the salts of pure co-balt, but reddish-brown when arsenic acid is present; sulphuretted hydrogen produces no precipitate, but hydrosulphuretts throw down a black powder, soluble in excess of the precipitant; tincture of galls gives a yeilowish-white precipitate; oxalic acid throws down the red oxalate. Zine does not precipitate this metal.

COBALUS. The demon of mines, which obstructed and destroyed the miners.

ed and destroyed the miners.

COBILAM. The name of a town in Surrey, in the neighbourhood of which is a weak saline purging

Co'bra de Capello. (From cobra, the head, or covering, Spanish. See Crotatus harridus.

Cocao, butter of. See Butter of Cocao.

Cocco-nut. See Cocos nucrera, Cocco entota. See Paphne mezereum. Cocca entota. See Daphne mezereum. Cocca entota. (From коккор, a berry.)

coccine LLA. (Diminutive of coccus, a berry; from its resemblance to a berry.) See Coccus cacti.
Cocco-Balsamem. The fruit of the Amyris gilea-

Coccogni'dia. See Daphne mezereum.

COCCOLITE. rious shades, found with granular limestone, garnet, and magnetic iron-stone, in Norway, Sweden, and Spain. CO CCOS. See Daphne mezercum.

CO CCULUS. (Diminutive of KOKKOS, a berry.) 1.

A little berry

A fine perry.

2. The name given by De Candolle, in his Systema Natura, to a new genus of plants.

3. Cocculus indices. See Menispermum cocculus.

4. Cocculus palmarus. The systematic name of the plant, which affords the calumba root of the pharmacopæias. See Calumba.
Co coulus indi aromaticus.

Jamaica pepper.

See Myrtus pimenta.
CO CCUM. A species of capsule, but separated from it by Gærtner, who defines it to be a dry seed-vegsel, more or less aggregate, not solitary, the sides of which are elastic, projecting the seeds with great force; as in the Euphorbia.

COCCUS. The name, in entomology, for a tribe of

insects.

Coccus cacta. The systematic name of the cochineal animal, or insect. Coccinella; Coccinilla; Ficus India grama; Scarabaolus hemisphoricus; Cochinella; Fara cochinella; Coccus Americanus; Cochinella; Coccus indicus tinctorius. Cochineal. That which South America interprets. Common: That which is used is the funalc insect found on, and collected in South America from, the Opunita, or Indian lig-tree. It possesses stimulating qualities, and is ordered by the College, in the content of the college. College in the tinctura cardamomi composita, and tine-tura carchone composita; but, most probably, merely on account of the beautiful red colour which it im-

[The cochineal is not now used in this country as a

[The cochineal is not now used in this country as a medicine. It is principally employed in producing a beautiful searlet colour, in dying calico, colouring morocoo leather, &c. A.]

COCC'YGE'US. (Coccygens; from κοκκυξ: because it is inserted into the coccyx.) A muscle of the os coccygis, situated, within the pelvis. Ischno-conggin of Dugnas. It arises tendinous and fleshy, from the spinous process of the ischium, and covers the inside of the sacro-ischiatic ligament; from this narrow beginning it gradually increases to form a thin fleshy belly, interspersed with tendinous fibres. It is inserted into interspersed with tendinous fibres. It is inserted into the extremity of the os sacrum, and nearly the whole length of the os coccygis laterally. Its use is to support and move the os coccygis forwards, and to tie it more

in move the sacrum.

CUCCYGIS OS.

From kokkut, the cuckoo, the bill of which bird it is said to represent.) Canda. Ossis sacri acumen. Cuccyx. This bone is a small appendage to the point of the sacrum, terminating this inverted column with an acute point, and found in very different conditions in the several stages of life-In the child, it is merely cartilage, and we can find no point of home: during youth, it is ossifying into dis-tinct homes, which continue me veable upon each other till manthod: then the separate homes gashaily unite with each other, so as to form one content home, with bulgings and marks of the pieces of which it was ori-ginally composed; but still the last home continues to move upon the joint of the sacrum, fill, in advanced years, it is at last finnly united; later in women than in men, with whom it is often fixed at twenty or twenty-five. It is not, like the os sacrum, flat, but of a roundish form, convex without, and ceneave invery different conditions in the several stages of life a roundish form, convex without, and concave in-wards; forming with the sacrum the lowest part of the pelvis behind. It has no holes like the sacrum; has no communication with the spinal canal, and transmits no communication with the spiral canal, and transmits no nerves; but points forwards to support the lower parts of the rectum; thus it centracts the lower open-ing of the pelvis, so as to support effectually the rec-tum, bladder, and womb; and yet continues so move-able in women, as to recede in time of labour, allowing the based of the piblic to yours.

the head of the child to pass.

COUCYX. (Koxxvi, the cuckoo.) See Coccupis

8. Also the part in which the os coccupis is placed.

COUENTLIN. Commingen. The name of the colouring principle of cochineal.

Co'cHIA. (From κοχαω, to turn or make round.)
An ancient name of some officinal pills. The pill of cochia of the shops, in the present day, is the compound colocynth pill.

See Coccus cacti. CO'CHLEA. (From noxalo, to turn round.) A

A mineral of a green colour, of va- | cavity of the internal ear, resembling the shell of a snail, in which are the modiolus, or nucleus, extending

snail, in which are the modiolus, of nucleus, extending from its basis to the aper, the scala tympam, scala vestibuli, and spiral loaining. See Far. Cochilea Terressants. See Limax. Cochilea Terressants. See Limax. Cochilea Terressants at able-spoon, calculated to hold half a fluid ounce; cochilear medium is a dessert or pap spoon, supposed to hold two lea-spoonfuls; and cochleare minimum, a tea-spoon, which holds about one fluid drachim.

COCILEA RIA. (From cochleare, a spoon; so called from its resemblance.) The name of a genus of plants in the Linnean system. Class, Tetradyna-

mia; Order, Siliculosa

mini: Order, Streatosa:

Cochlearla armoracia. The systematic name of
the horse-radish; Raphanus rusticanus; Armoracia;
Raphanus marinus; Raphanus sylvestris; Cochlearia—folis; radicalibus lanceolatis crenatis caulems in
cisis, of Linneus. The root of this plant has long
been received into the materia medica, and is also well
been received into the materia medica, and is also well

Mitallies the counts habit of been received into the materia metara, and is also well known at our tables. "It affects the organs both of taste and smell with a quick penetrating punger by nevertheless it contains in certain vessels a sweet pince, which sometimes exudes in little drops upon the sur face. Its pungent matter is of a very volatile kind, being totally dissipated in drying, and carried off in evaporation, or distillation by vater; as the pungency exhales, the sweet matter of the root becomes more canalics, the sweet matter of the row occurs more sensible, though this also is, in a great measure, dissipated or destroyed. It impregnates both water and spirit, by infusion, or by distillation, very richly with its active matters. In distillation with water, it yields a small quantity of essential oil, exceedingly pene-trating and pungent."

Dr. Cullen has mentioned every thing necessary to be known respecting the medicinal virtues of horse-radish, we shall therefore transcribe all that the inge-nious professor has written on this subject. "The root nious professor has written on this subject. "The root of this plant only is employed; and it affords one of the most acrid substances of this order (siliculesa), and therefore proves a powerful stimulant, whether externally or internally employed. Externally, it readily inflames the skin, and proves a rubefacient that may be employed with advantage in palsy and rheumatism; and if its application be long continued, it produces blisters. Taken internally, it may be so managed as to relieve hoarseness, by acting on the fauces. Received into the stomach, it stimulates this, and promotes digestion; and therefore is properly employed as a condiment with our animal food. If it be played as a condiment with our animal food. If it he influed in water, and a portion of this infusion be taken with a large draught of warm water, it readily proves emetic, and may either be employed by itself to excite vomiting, or to assist the operation of other emetics. Influed in water, and taken into the stomach, it proves stimulant to the nervous system, and is thereby useful in palsy, and, if employed in large quantity, it proves heating to the whole body; and thereby it proves often useful in chronic rheumatism, whether arising from secury or other causes. Begins has given us a particular method of exhibiting this root, which is, by cutting it down, without bruising, into small pieces; and ting it down, without bruising, into small pieces; and these, if swallowed without chewing, may be taken down in large quantities, to that of a table-spoonful. And the author alleges, that, in this way, taken in the morning for a month together, this root has been externely useful in arthritic cases; which, however, I suppose to have been of the rheumatic kind. It would seem, in this manner employed, analogous to the use of unbruised mustard-seed; it gives out in the stomach its subtile volatile parts, that stimulate considerably without influming. The matter of horse-radish, like the same matter of the other siliquose plants carried into the blood-vessels, passes readily into the kidneys, and proves a powerful directic, and is therefore useful in dropsy; and we need not-say, that, in this manure by promoting both urine and perspiration, it has been long known ascence (the most powerful antiscorbuiers, Coenticassia, lagent searchy-grass). em, in this manner employed, analogous to the use COCHLEARIA HORTENSIS.
See Cochlearia officinalis.

COULERRIA OFFICIALIS. The systematic name of the lemon sourcy grass. Cochicaria horteness, Cochicaria chief continuo del c The systematic name

digenous plant is cultivated in gardens for its medicinal

&c.; as legumen cochleatum, seen in Medicago poly-morpha, and the seeds of the Salsola.

morpha, and the seeds of the Salsola.

Cocno'nse. (From κοχαω, to turn round.) Galen explains this to be the juncture of the ischium, near the seat or breech; whence, says he, all the adjacent parts about the seat are called by the same name. Hesychius says, that cochone is the part of the spine which is adjacent to the os sacrum.

[\*COCHRAN, John, M.D. This gentleman was born in 1730, in Chester country, state of Pennsylvania. About the time he finished his medical studies, the war

About the time he finished his medical studies, the war of 1755 commenced in America, between England and France. The army then presented to the mind of Dr. Cochran a scene of usefulness and farther improvement. As there were not any great hospitals at that time in the provinces, he readily perceived that the army would be an excellent school for his improvearmy would be an excellent school for his improve-ment, especially in surgery, as well as in the medical treatment of many diseases. He soon obtained the appointment of Surgeon's Mate in the Hospital De-partment; and having continued with the northern army during the whole of that war, enjoying the friendship and advice of Dr. Munro, and other eminent Surgeons and physicians, he quitted the service with the character of an able and experienced practitioner. When (twenty years after) the war became serious between Great Britain and the United States, Dr.

Cochran was too zealous a whig, and too much attached to the interests of his native country, to remain an idle spectator. Towards the last of the year 1776, he offered his services as a volunteer in the hospital department. General Washington afterward recomdepartment General Washington afterward recommended him to Congress. He was accordingly appointed, in April, 1777, Physician and Surgeon General in the middle department. In the month of October, 1781, Congress was pleased to give him the appointment of Director General of the hospitals of the United States; an appointment that was the more honourable because it was not solicited by him. A short time after the peace, Dr. Cochran removed with his family to New-York, where he attended to the duties of his profession until the adoption of the new Constitution, when his friend President Washington, retainings. In use his own words, "a cherful recoilection." retaining, to use his own words, "a cheerful recollec-tion of his past services," nominated him to the office of Commissioner of Loans for the State of New-York. This office he held until a paralytic stroke disabled him in some measure from the discharge of its duties; upon which he gave in his resignation, and retired to Pala-tine, in the county of Montgomery, where he termi-niated a long and useful life, on the 6th of April, 1807, in the 77th year of his age. "—Thock. Med. Bigg. A.] COCK. The male of the domestic fowl. See Phain the 77th year of his age."—Thoch. Med. in COCK. The male of the domestic fowl.

sianus gallus.
COCKBURN, WILLIAM, was born in the latter part COCKBURN, WILLIAM, was born in the latter part of the 17th century. After being some years physician to the navy, he settled in London; and soon distinguished himself so much, that he was admitted into the College, as well as the Royal Society, and made physician to King William. He published a "Treatise on Sea Diseases," which was often reprinted, and translated into French and German. He referred the scurvy principally to the diet of seamen, and considered fresh provisions as the chief remedy for it. He wrote also on Alvine Fluxes, on Gonorrhom, (which he contends may exist independent of syphilis,) and on the Human Economy; which latter publication was much noticed at the time, but is since superseded. by more accurate treatises.

by more accurate treatises CO'COS. (So called from the Portuguese coco, or course, the three holes at the end of the cocoa-nut shell, giving it the resemblance of a monkey's head. The name of a genus of plants in the Liungan system. Class, Monacia; Order, Hexandria.
COCOS BUTYRACEA. The systematic name of the plant which affords the nalm of the company that the systematic name of the plant which affords the nalm of the company that the systematic name of the systematic name of the plant which affords the nalm of the company that the systematic name of the systematic name of

Diass, Monacus; Order, Hezanaria.

Cocos BUTTRACEA. The systematic name of the plant which affords the palm oil; Cocos—inermis, frendibus, pennatis; foliolis simplicibus, of Linnæus. The oleum palms is produced chiefly by bruising and dissolving the kernels of the fruit in water, without the aid of heat, by which the oil is separated, and rises to the surface, and on being washed two or three times, is rendered fit for use. When brought into this country, it is of the consistence of an eightnent, and country, it is of the consistence of an ointment, and

qualities. Its expressed juice has been long considered as the most effectual of the scorbutic plants.

COCHLEATUS. Spiral, like the winding of a shell. Applied in botany to leaves, leguminous seeds, it is appeared to possess very little, if any, where the state of the state of

sprains; but it appears to possess very little, it any, advantage over other bland oils.

Cocos NUCLERA. The systematic name of the plant, the fruit of which is the cocoa-nut. Within the nut is found a kernel, as pleasant as an almond, and also a large quantity of liquor resembling milk, which the Indians greedily drink before the fruit is ripe, it being then pleasant, but when the nut is matured, the being then pleasant, but when the first is matter, the liquor becomes sour. Some full-grown nuts will con-tain a pint or more of this milk, the frequent drinking of which seems to have no bad effects upon the lndians; yet Europeans should be cautious of making too free with it at first, for when Lionel Wafer was at a small island in the South Sea, where the tree grew in plenty, some of his men were so delighted with it, that at parting they resolved to drink their fill, which that at paring they resolved to drink their fill, which they did; but their appeties had like to have cost then their lives, for though they were not drunk, yet they were so chilled and benumbed, that they could not stand, and were obliged to be carried aboard by those stand, and were onigen to be carried aboard by mose who had more prudence than themselves, and it was many days before they recovered. The shells of these nuts being hard, and capable of receiving a polish, they are often cut transversely, when, being mounted on stands, and having their edges silvered, or gilt, or otherwise ornamented, they serve the purpose of drinking-cups. The leaves of the tree are used for thatching, for brooms, baskets, and other utensils; and of the reticular web, growing at their base, the Indian

women make cauls and aprons.

CO'CTION. (Coctio; from coquo, to boil.) Concoction.

1. The digestion of the food in the stomach.

See Digestion.

 A boiling or decoction. See Decoction.
 It was formerly used in a medical sense, signifying that alteration, whatever it be, or however occasioned, which is made in the crude matter of a distemper, whereby it is either fitted for a discharge, or rendered harmless to the body. This is often brought about by nature; that is, by the vis vite, or the disposition or natural tendency of the matter itself, or else by proper remedies, which may so alter its bulk, figure cohesion, or give it a particular determination, so as to prevent any farther ill effects, or drive it quite out of the body. And that time of a disease wherein this of the body. And that time of a disease wherein this action is performing, is called its state of coction. It is now failen into disuse.

Cocu'sTU. The name for courbaril.

Codo's Tr. Lie man. Codo's Tr. Lie man. Codo's Pala. See Nerium antidysentericum. Codosetla. A name given by the Italians to the carbuncle. See Inthrac. Codoe E'le. (From κωδια, a bulb, and κηλη, a tu-

mour.) A bubo.

(From cacum, the blind gut, through which it runs.) A vein, being a branch from the concave side of the vena mesaraica.

Cœ'La. (From κοιλος, hollow.) Applied to depression, or hollow parts on the surface of the body, as the sion, or hollow parts on the surface of the body, as the hollow pits above, and sometimes below the eyes: the hollow parts at the bottom of the feet.

CCE'LIA. (From \*vilos, hollow.) A cavity in any part of the body; as the belly, the womb, &c.

CCE'LIAC. (Caliacus, belonging to the belly; from \*xollaa, the belly.) Appertaining to the belly.

CCELIAC ARTERY. Interiaculiaca. The first branch given off from the aorta in the cavity of the abdomen. It sends hangles to the displacement lives.

If sends branches to the diaphragm, stomach, liver, pylorus, duodenum, omentum, and spleen.

CŒLIAC PASSION. (From koulta, the belly). Calica chylosa; Calica lactea. There are very great differences among physicians concerning the nature of this ences among physicians concerning the nature of this disease. Sauvages says it is a chronic flux, in which the aliment is discharged half digested. Dr. Cullen considers it as a species of diarrheas, and mentions it in his third and fourth species, under the terms mucosa, chylosa, lactea; making the purulenta only symptomatic. See Diarrheas. It is attended with great pains in the stomach, resembling the pricking of pins; rumbling and flatus in the intestines; white stools, because deprived of bile; while the patient becomes weak and lean.

comes weak and lean.

CŒLIACA. (Caliacus; from kolata, alvus veneter.) Dr. Good selects this name for the first class of diseases in his Nosology; diseases of the digestive

Splanchnica.

(From κοιλος, hollow.) An ulcer in the

tunica cornea of the cyr.
CGEOSTO MIA. See Coilostomia.
CGENOLO GIA. (From Korvos, common, and hypos,

discourse.) A consultation or common consideration of a disease, by two or more physicians. CENOTES. (From 1000). The physicians of the methodic sect asserted that all diseases arose from relaxation, stricture, or a mixture of both. These were called canotes, viz. what diseases have in common.

CERU'LEUS LAPIS. The sulphate of copper. See

Cupri sulphas.
CCE'TE. (From «sina, to lie down.) A bed, or

CCETE. (From ssipas, to lie down.) A ned, or couch, for a sick person.
CO FFEA. (From sofuah, a mixing together, Hebrew; so called from the pleasant potation which is made from its berry; others assert that the true name is caffe, from Caffa a province in South America, where the tree grows spontaneously in great abundance.) The name of a genus of plants in the Linguage system. Class, Pentandria; Order, Monogymia. The coffee-tree.

COPPEA ARABICA. The plant which affords coffee.

Jasminum Arabicum; Choava. Coffee is the seed of the Coffica—floribus quinquefidis, dispermis, of Linniguis.

The coffee-tree is cultivated in Arabia, Persia, the East Indies, the Isle of Bourbon, and several parts of America. Good Turkey coffee is by far the most salutary of all liquors drunk at meal-time. It possesses tary of all liquors drunk at meal-time. It possesses nervine and adstringent qualities, and may be drunk with advantage at all times, except when there is bile in the stomach. It is said to be a good antidote against the stomech. It is said to be a good annote because an over dose of opium, and to relieve obstinate spasmodic asthmas. For the latter purpose, the coffee ought to be of the best Mocco, newly hurnt, and made very strong, immediately after grinding it. Sir John Pringle commonly ordered one ounce for a dose; which rringie commonly ordered one ounce for a dose, which is to be repeated fresh, after the interval of a quarter or half an hour; and which he directed to be taken without milk or sugar.

Besides the peculiar bitter principle, which is described under the name Caffein, coffee contains several

other vegetable products. According to Cadet, 64 parts of raw coffee consists of 8 gum, 1 resin, 1 extractive and bitter principle, 3.5 gallic acid, 0.14 albumen, 43.5 fibrous insoluble matter, and 6.86 loss. Herman found in 1990 grains of

Levant Coffee, Mart. Coffee, 74 320 ..... Extractive..... Gum.... 130 ..... Fibrous matter... 1335 ..... 61 .....

The nature of the volume ragment principle developed in coffee by roasting, has not been ascertained. The Dutch in Surinam improve the flavour of their coffee by suspending bags of it, for two years, in a dry atmosphere. They never use new coffee.

1920

ner, it is of singular use to those who have headache. from weakness in the stomach, contracted by sedenfrom weakness in the stomach, contracted by sedentary habits, close attention, or accidental drukenness. It is of service when the digestion is weak; and persons afflicted with the sick headache are much benefited by its use, in some instances, though this effect is by no means uniform. Coffee is often imitated by roasting rve with a few almonds.

["COFFIN, NATHANIEL, M.D., son of Dr. N. Coffin, one of the most eminent physicians in the state of Maine. The first ancestor of his family who came to this counter was Trictan Coffin, who emirated from

this country was Tristram Coffin, who emigrated from

England in 1642.

Dr. Nathantel Comm was born in Portland, on the 3d of May, 1744, in which place he staways lived, and where he closed his long and useful life. The country at the time of his birth, for may miles round Casco bay, including the site of Portland, was called Falmouth: atterward, the part most thickly settled, lying on the harbour, was incorporated into a separate town by the name of Portland.

It contains two orders, Enterica and under his father; but the limited means of scientific improvement then existing in this thinly peopled secimprovement then existing in this limity peopled sec-tion of the country, induced the son, with the advice of his father, to embark for England at the age of eighteen. He there prosecuted his studies at Guy's and St. Thomas's hospitals, under the distinguished Hun-ter, Akenside, M-Kenzie, and others; and returned to commence the practice of his profession at the early age of twenty-one.

Possessing a constitution naturally healthy and vi-gorous, and a mind resolute and intelligent, there was no peril which he was not prepared to encounter, and no adversity which he could not endure; and he has well deserved the distinction awarded him by the public, for his constant and unremitted exertions during

public, for his constant and unreintited exertions during a period of more than sixty years.

Br. Coffin was surrounded, in the early part of his career, by suffering friends and patients; but his life was closed amid the blessings of freedom and independence. In the peaceful evening of his days, all the enjoyments of prosperity and affection clustered around his dwelling; but it should not be forgotten that the respectability and happiness he had experienced, were the well carned reward of the virtues, the talguts and the faithfulness of timers were the talents, and the faithfulness of former years.

In his manners, he was a polished specimen of the state of American society existing before the Revolution; he was one of the most graceful gentlemen of the old school, and his deportment was marked by a uniform and captivating urbanity. He died on the leth of October, 1826, aged 82 years."—Thacher's Med.

Biog. A.]
COGAN, WILLIAM, was born in Somersetshire, about the middle of the 16th century. He studied, and took the degree of bachelor in medicine, at Oxford; soon after which he was appointed master of the soft of a soft after which he was appointed master of the school at Manchester, where he also practised in his profession till his death in 1607. He published a curious book, abounding in classical quotations, entitled "The Haven of Health," in which he strongly recommends temperance and exercise. There is added an account of the sweating sickness; and of a remarkable disorder, which prevailed at Oxford in July and August, 1575, before he left it, by which he states, that in thirty-seven days " there died 510 persons, all and no women.'

nien, and no women."

COHE SION. (Cohasio; from con, and harea, to stick together.) Fis cohasionis; Fis adhasionis; Fis adhasionis; Fis attractionis. That power by which the particles of bodies are held together. See Attraction.

COHOBA'TION. (A term invented by Paracelsus.) Cohobuaro; Cohophum; Cohophum The ancient chemists use this term to signify the distillation of a fluid poured afresh upon a substance of the same kind as that upon which it was before distilled, and repeating this governal times to make it unor afficient his governation several times to make it unor afficient. ing this operation several times to make it more efficacious.

Co'HOL. (Cohol, Hebrew.) Castellus says this word is used in Avicenna, to express dry collyria for Castellus says this

The nature of the volatile fragment principle developed in coffee by roasting, has not been ascertained. The Dutch in Surinam improve the flavour of their coffee by suspending bags of it, for two years, in a dry atmosphere. They never use new coffee. If coffee by suspending bags of it, for two years, in a dry atmosphere. They never use new coffee. If coffee by drunk warm within an hour after diner, it is of singular use to those who have headache, from weakness in the stomach, contracted by sedenary habits, close attention, or accidental drukenness, it is of service when the digestion is weak; and persons afflicted with the sick headache are much benefited by its use, in some instances, though this effect is you no means uniform. Coffee is often imitted by oasting rye with a few almonds. ("COFFIN, NATHANEL, M.D., son of Dr. N. Coffin, ene of the most eminent physicians in the state of this country was Tristram Coffin, who emigrated from continued in 1642.

Br. Nathantel Coffin was born in Portland, on the dof May, 1744, in which place he always lived, and where he closed his long and useful life. The country at the time of his birth, for may miles round Casco bay, including the site of Portland, was called Falmouth; afterward, the part nost thickly settled, lying in the harbour, was incorporated into a separate town by the name of Portland.

He completed his preparatory medical characteristics and that in some animals the organ might be removed without destroying into the harbour, was incorporated into a separate town by the name of Portland.

He completed his preparatory medical characteristics have a considerable improvements in anatomy and surgery. He found that the brain had a motion communicated to it by the arteries; and that in some animals the organ might be removed without destroying into the harbour, was incorporated into a separate town by the name of Portland.

He completed his preparatory medical characteristics in leafly, he continued the organ might be removed without destroying into the harbour,

same office to the lips. He observed, that injuries to | disease by different practitioners. same office to the lips. He observed, that injuries to the brain are more dangerous when the dura mater remains entire; and therefore he bodily divided that membrane. He was also accustomed to pare down fungi arising from the brain. He published good plates of the cartilages, of the fœtal skeleton, and of those of various animals, &cc. CO ITUS. (From coco, to go together.) The con-junction of the male and female in the act of pro-

COLA. (From κωλον, a joint.) The joints.
COLA. (Astruc says they were formerly called glands, and are situated in the third and internal tunic of the uterus, and that they are vesiculo-

COLATO'RIUM. (From colo, to strain.) A strainer of any kind

COLATU'RA. (From colo, to strain.) A filtered

COLBATCH, John, was born in the latter part of the 17th century. He practised in London, first as a surgeon and apothecary, afterward as a physician, and Surgeon and apomecary, atterward as a physician, and had considerable repute. He published several works: the first was "A New Light of Chirurgery," condemning the use of tents, and the injection of acrid clustances into wounds; then a treatise, in which most diseases are ascribed to alkalescency, and acids strongly recommended; this, in a subsequent publica-tion, he applied particularly to the gout; lastly, he highly extolled the misletoe, as a remedy for epilepsy

highly extelled the misictoe, as a remedy for chilepsy and other nervous diseases.

COLCHESTER. The name of a scaport on the coast of Essex, near which is a mineral water, agua Colcestronsis, which is of the bitter purging kind, similar to that of Epsom, but not so strong.

COLCHICUM. (From Colchis, a city of Armenia, where this plant is supposed to have been common.)

I. The name of a genus of plants in the Linnaan system. Class, Hexandria; Order, Trigynia. Meadow-

2. The pharmacopæial name of the meadow-saffron.

See Colchicum autumnale.

COLCHICUM AUTUMNALE. The systematic name of the common meadow-saffron. Colchicum—folis pla-nis lanceolatis erectis, of Linneus. A native of England. The sensible qualities of the fresh root are nis fanceolatis erectis, of Linneus. A native of England. The sensible qualities of the fresh root are very various, according to the place of growth and season of the year. In autumn it is almost inert; but in the beginning of summer, highly actid: hence some have found it to be a corrosive poison, while others have eaten it in considerable quantity, without experiencing any effect. When it is possessed of acrimony, this is of the same nature with that of galic, and some other plants, and is entirely destroyed by drying. The German physicians have celebrated its virtues as a diuretic, in hydrothorax and other dropsies; and, in France, it continues to be a favourite remedy; but it is, nevertheicss, in this country, unsuccession, or at best a very uncertain remedy. The expressed juice is used, in Alsace, to destroy vermin in the heads of children. The officinal preparations of colchicum are, syrupus colchici autumnatis, Edin, Pharm. The oxymel colchici of the former London pharmacopaia is now omitted, and the acetum colchici ordered in its now; if it be thought requisite. The active ingredient of this plant has lately been ascertained to be an alkali, possessing peculiar properties. See Veratria. ("Colchicum is in large doses a deleterious, acrid narcotic; in small ones, a cathartic and diuretic; possessing likewise, peculiar properties of a sedative

["Colchicum is in large doses a deleterious, acrid narcotic; in small ones, a cathartic and diuretic; possessing, likewise, peculiar properties of a sedative kind. It appears to have been known to the ancients as a poison, and during the last century it has been occasionally employed as a medicine in dropsy, asthma, and some other chronic diseases. Recently it has excited much notice, especially in Great Britain, as a remedy in gout, and a sedative in verious painful and inflammatory affections. The interest excited by a secret French specific, the Eau Medicinale, which was found to relieve the paroxysms of gout, led to various limitations and substitutes for that preparation. Among these, a various tincture of colchicum was found very nearly to resemble the foreign compound, both in its mese, a various uncture or cotenicum was found very nearly to resemble the foreign compound, both in its sensible qualities and medicinal effects. Accordingly, the Wine of Colchicum became a prevailing medicine for gout, and was used with various success in that 244

disease by different practitioners. The use of colchi-cum was soon extended to chronic rheumatism, and other painful affections, and at length it was applied, by Mr. Haden and others, to the cure of acute inflam-matory diseases, and the treatment of cases in which blood-letting is commonly employed. Sufficient evi-dence has been published to establish the fact, that this medicine, when possessed of its full activity, may be so managed, as to diminish morbid force and frequency of the pulse, to allay pain and other phenomen. so managed, as to diminish morbid force and frequency of the pulse, to allay pain and other phenomena of inflammation, and in certain cases to fulfil the object of depletion by the lancet. The Messrs. Haden inform us, that in pure inflammations, if it be given every four hours until it produce an abundant purgative effect, the pulse will become nearly natural, from being either quick and hard, or slow and full; that in many cases, its use may be substituted for blood-letting, at least when inflammation does not exist to an alarming degree in a vital part; and that the patient is left in a state favourable to more rapid recovery, when fever and inflammation have been removed by colchicum, than when the same end has been effected by other means. In chronic rheumatism, it is said rarely to than when the same end has been enected by other means. In chronic rheumatism, it is said rarely to fail, if persevered in for a time sufficiently long; in habitual discharges of blood from plethora, it has been substituted for frequent venesections; and after acticlents, it is said to have the power of averting the severe consequences which usually follow such cases.

In Boston, considerable attention has been bestowed

upon the effects of colchieum in different diseases. The article employed has been the bulb, imported in a live state, packed in sand, and dried immediately after its arrival. The sprouting of the flower-bud, during transportation, did not appear to lessen its activity. Administered in powder, this medicine has been found, in a variety of instances, to relieve the symptoms of pulmonary and of peritoneal inflammation, in a manner not easily to be actounted for, except by the reduction of the inflammation. Its most frequent operation, I believe, when fairly tried, has deen to allay pain, reduce the pulse, and diminish symptomatic fever; to move the bowels, generally within twenty-four hours, and to excite nausea and great diagust, if the dose be large. It has, nevertheless, sometimes failed to produce these effects. In rheumatic complaints, its success has been equivocal, but, on the whole, rather favourable to its reputation than otherwise.

Colchicum has, of late, been most frequently administered in powder. Five grains may be given, three times a day, to an adult, where the stomach is not particularly delicate. This quantity I have found to remain on the stomach, and to move the bowels, commonly on the second day. In important cases, the dose on the prevent. In chronic cases, the dose of five or six grains may be given, according to Mr. Hayden, once a-day, in the morning, and continued for weeks together. This writer combined with it small quantities of sulphate and carbonate of potass, and gave it in a state of efferencescence, with an acid. upon the effects of colchicum in different diseases. article employed has been the bulb, imported in a live

ties of sulphate and carbonate of potass, and gave it in

ties of sulphate and carbonate of potass, and gave it in a state of effervescence, with an acid.

It is prudent to begin the use of a new parcel, or specimen, with smaller doses than those above specified, and gradually to increase them, since the root is at some times more active than at others. The variable activity of the medicine is, indeed, a great impediment to its usefulness, and nothing can be more discordant than the statements of writers on this subject. Professor Murray has cited various instances in which this root has produced distressing, and even fattal effects; while, on the other hand, an author by the name of Kratochville asserts, that himself and others have eaten drachms of the root, both in spring and fall, with impunity; and Orfila tells us, that he had repeatedly given several bubs to dogs, in the month of June, without causing them any inconvenience."—

Big. Mat. Med. A.]

Big. Mat. Med. A.]
[COLCHICI BEMINA-Big. Mat. Med. A.]

[COLCHICI SEMINA. The seeds of Colchicum.—
These have been proposed, by Dr. Williams, as a substitute for the bulb, possessing all the medicinal advantages of the plant, attended with greater mildness and uniformity of operation. Several practitioners have agreed in their accounts of the efficacy of these seeds, particularly in chronic rheumatism. Dr. Williams uses a wine, made by infusing two ounces of the seeds in a pint of sherry. From one to three drachms are given, once or twice a-dsy, in aromatic water. He also employs a tincture, made with the same propor-

tions. In this country, colchicum seeds have been used with some benefit in rheumatic complaints. They apparently possess the advantage of being less liable than the root to alter by age. I have found two or three grains of the powder to produce vomiting and purging in a mild degree, and ten grains to bring on powerful vomiting and purging, with vertigo and impaired vision during twenty-four hours."—Big. Mat.

COLCHICUM ILLYBICUM. The plant supposed to afford the root called hermodactyl. See Hermodac-

COLCOTHAR. Chalcitis; Colcothar vitrioli. The brown-red oxide of iron, which remains after the dis-

Drown-red oxide of from which remains after the distillation of the acid from sulphate of iron.

COLOTHAR VITRIOLI. See Colcothar.

COLD. 1. A privation of heat. It is nothing positive, but somewhat of the negative kind. The human
body contains within itself, as long as it is living, a
principle of warmth: if any other hody, being in contact with it, abstracts the heat with unusual rapidity, it is said to be cold; but if it carries off the heat more slowly than usual, or even communicates heat to our body, it is said to be hot.

2. A cold is a popular name also for a catarrh. See

Cold Affusion. See Affusion.
["COLDEN, CADWALLADER, Esq. This truly worthy and eminent character, who united in himself the several qualities we are accustomed to admire in the several qualities we are accustomed. the several qualities we are accustomed to admite in the physician, naturalist, and philosopher, was the son of the Rev. Alexander Colden, of Dunse, in Scotland, and was born on the 17th day of February, 1688. After he had laid the foundation of a liberal education, under the immediate inspection of his father, he went to the University of Edinburgh, where, in 1795, he completed his course of collegiate studies. He now completed his course of collegiate studies. He now devoted his attention to medicine and mathematical science, until the year 1708, when, being allured by the fame of William Penn's colony, he came over to this country about two years after. He practised physic, with no small share of reputation, till 1715, when he returned to England. While in London, he was introduced to that eminent philosopher, Dr. Edmund Halley, who formed so favourable an opinion of a paper on Animal Secretion, written by Dr. Colden in early life, that he read it before the Royal Society, the notice of which learned body it greatly attracted. At this time he formed an acquaintance with some of the most distinguished literary and scientific characters, most distinguished literary and scientific characters, with whom he ever after maintained a regular corres pondence. From London he went to Scotland, and married a young lady of a respectable Scotch family, by the name of Chrystie, with whom he returned to America in 1716.

America in 1710.

In 1718, he settled in the city of New-York; but soon after relinquished the practice of physic, and became a public character; lie held, in succession, the office of Surveyor General of the Province, Master in Chancery, Member of the Council, and Lieutenant Governor. Previous to his acceptance of this last station, he obtained a patent for a tract of land, designated by the name of Coldenham, near Newburgh, to which place he retired with his family, about the year 1755, and spent a great part of his life. Here he appears to have been occupied, without interruption, in the pursuit of knowledge, particularly in botanical and ma-thematical studies, at the same time that he continued his correspondence with learned men in Europe and

America.

In 1761, he was appointed Lieutenant Governor of New-York, which commission he held until the time of his decease, the administration of the government of his decease, the administration of the government repeatedly falling on him, by the death or absence of several governors in chief. His political character was rendered very conspicuous by the firmness of his conduct, during the violent commotions which preceded the Revolution. His administration is also memorable for several charters of incorporation, for useful and benevolent purposes. After the return of Governor Tryon, in 1775, he was relieved from the cares of government. He then retired to a seat on Long Island, where a recollection of his former studies, and a few select friends, ever welcomed by a social and a few select friends, ever welcomed by a social and hospitable disposition, cheered him in his last days. He died in the 89th year of his age, on the memorable

28th of September, 1776, a few hours before the city of New-York was in flames, retaining his senses to the last, and expiring without a groan.

last, and expiring without a groam.

Dr. Colden began, at an early period of his life, to pay great attention to the vegetable productions of America, in which delightful study his daughter afterward became distinguished. In honour of Dr. Colden, Linnzeus named a plant, of the tetandrous class, Coldenia. This plant, Miss Colden had first described. He was attentive to the physical constitution of the country and left a long course of digustal observed. of the country, and left a long course of diurnal ob-servations on the thermometer, barometer, and winds. servations on the instrumenter, anomaly, and con-lle also wrote a history of the prevalent diseases of the climate, and, if he was not the first to recommend the cooling regimen in the cure of fevers, he was cer-tainly one of its earliest and warmest advocates; and opposed, with great earnestness, the prevailing mode

opposed, with great earnestness, the prevailing mode of treatment in the small-pox.

In the years 1741 and 142, a fever, which occasioned great mortality, prevailed in the city of New-York, and created much alarm. He communicated his thoughts to the public, on the most probable method of curing the calamity, in a small treatise, in which he enlarged on the pernicious effects of marshy exhalations, moist air, damp cellars, filthy stores, and dirty streets; showed how much these nuisances prevailed, in many narts of thegity, and nonted out the remedies. streets; showed how much these nuisances prevailed, in many parts of the city and pointed out the remedies. The corporation of the city presented him their thanks, and established a plan for draining and clearing out the city, which was attended with the most salutary effects. He published a treatise "On the Cure of Caneer." Another essay of his, "On the Virtues of the Great Water Dock," introduced him to an acquaintance with Linnauss. In 1753, he published some observations on an epidemical sore throat, which appeared in Massachusetts, in 1735, and had spread over a great part of North America. These observations are to be found in Cary's American Museum. When he became acquainted with Linnaus's system of botany, he applied himself with new delight to that study. His descriptions, of between three and four hundred American plants, were printed in the Acta

Inatstudy. His descriptions, of between three and four hundred American plants, were printed in the Acta Upsaliensia. He published the "History of the Five Indian Nations," in 2 vots. 12mo. But the subject which drew Dr. Colden, at one period of his life, from every other pursuit, was what he first published, under the title of "The Cause of Gravitation," which being much enlarged, was republished by Dodsley, in 1751, in 1 vol. 4to., entitled, "The Principles of Action in

Though his principal attention, after the year 1760 was necessarily directed from philosophical to political was necessarily directed from philosophical to pointing matters, he maintaind, with great punctuality, his literary correspondence, particularly with Linnæus of Upsal, Gronovius of Leyden, Drs. Porterfield, and Whytte of Edinburgh, Dr. Fothergill, and Mr. Collinson, F.R.S. of London. There were also several communications on mathematical and astronomical subjects, between him and the Earl of Macclesfield.
With most of the eminent men of our own country he With most of the eminent men of our own country he held an almost uninterrupted epistolary correspondence. Among them we may mention the names of Dr. Garden, Mr. J. Bartram, Dr. Douglass, Dr. John Bard, Dr. Samuel Bard, James Alexander, Esq., and Dr. Franklin. With Dr. Franklin, in particular, he was a constant and intimate correspondent, and they regularly communicated to each other their philosephical and physical discoveries, especially on electri-city. In their letters are to be observed the first dawnings of many of those discoveries which Dr.

daynings of many of those discoveries which Dr. Franklin has communicated to the world, and which so much astonished and benefitted mankind. In a letter to one of his friends, Dr. Franklin gives an account of the organization of the American Philosophical Society, in which he mentions that Dr. Colden first suggested the idea and plan of that institution.

The numerous manuscript papers left by Dr. Colden at the time of his death, which for many years were supposed to have been lost, have been lately found, and are now in possession of his grandson, Cadwallader D. Colden, Eag. They are chiefly on historical and philosophical subjects, and many of them are of the greatest value. Among these are Observations on Smith's History of New-York, in a series of letters to his son, Alexander Colden: An Introduction to the Study of Philosophy: a correct copy of his Account of the Fever which prevailed in New-York in the

years 1741-2. This production may be found in Hosack and Francis's Register, vol. i. An Inquiry into the Principles of Vital Motion: A Translation of the Letters of Cicero, with an Introduction by C. Colden: Letters of Cicero, with an infidunction by C. Colden: Planta Coldenhama in processed Noveboraccust spontanea crescrites, quas ad methodam Linnar Seculation, anno 1742, observant Caimallader Colden: A corrected and augmented copy of his Principles of Action in Matter: A Treatise on Electricity, &c. Besides these, there is a great mass of correspondence on the contraction. sides these, there is a great mass of correspondence on medical, philosophical, and iterary subjects, with many eminent physicians and philosophiers in Europe and America. These letters carry his correspondence back to the year 1710, and bring it down, almost uninterruptedly, till the time of his death. There are, too, a great variety of papers on public affairs, which must be considered as documents of primary importance, as they necessarily contain numerous facts which throw light on the history ofthis State. It Colden was to be a considered as documents of the control of the contro light on the history of this State. Dr. Colden was unquestionably a man of various and extensive learning, of superior talents, of the most indefatigable industry of superior density in the most flavourage and indeed, in many respects, his character will not suffer by a comparison with that of our illustrious countryman, Benjamin Franklin.—Thucher's Med. Biography. A.]

Editorraphies, A. P. COLE, WILLIAM, studied at Oxford, and took his degree there in 1665. After practising some time in Bristol, he came to London, and distinguished himself the continuous on the siology and medicine, by several publications on physiology and medicine, which, however, are too thooretical. The principal are on animal secretion, on apoplexy, on the cause of fever, on insensible perspiration, &c. He published also a case of epilepsy, cured, in His opinion, by the

misletoe

(From καυλος, a stalk.) Colis. The

penis.

COLLWORT. See Brassica.

COLICA. (From κωλον, colon, the name of one of the intestlnes.) The colic. The appellation of colic is commonly given to all pains in the abdomen, almost indiscriminately; but, from the different causes and circumstances of this disorder, it is differently denominated. When the pain is accompanied with a vomiting of bile, or with obstinate costiveness, it is called a hillows colic. if flatus causes the pain, that is, called a bilious colic; if flatus causes the pain, that is, if attended with temporary distention, relieved by the discharge of wind, it takes the name of flatulent or windy colic; when accompanied with heat and inflammation, it takes the name of inflammatory colic, or enterities. When this disease arises to a violent height, and is attended with obstinate costiveness, and an evacuation of faces by the mouth, it is called passio iliaca, or iliac passion.

Dr. Culien places this genus of disease in the class neuroses, and order spasmi; and defines it pain of the abdomen, particularly around the umbilicus, attended with vomiting and costiveness. He enumerates seven

 Colica spasmodica, with retraction of the navel, and spasm of the inuscles of the belly.
 Colica pictonum. This is called from the place and spasm of the muscles of the belly.

2. Colica pictorium. This is called from the place where it is endemial, the Poictou, the Surinam, the Devonshire colic; from its victims, the planters' and the painters' colic; from its symptoms, the dry bellyache, the nervous and spasmodic colic. It has been attributed to the poison of lead, and this is undoubtedly the cause, when it occurs to glaziers, painters, and those employed in lead works; but, though this is one, it is by no means the only cause. In Devonshire, it certainly more often arises from the early cider made of barsh, unripe fruit, and in the West Indies from new rum. The characteristics of this disease are, obstinate costiveness, with a vomiting of an acrid or porraceous bile, pains about the region of the navel, shooting from thence to each ride with excessive vioshooting from thence to each side with excessive vioshooting from there to each side with excessive vio-lence, strong convulsive spasms in the Intestines, and a rendency to a paralysis of the extremities. It is occa-sioned by a long-continued costiveness; by an accu-mulation of acrid bile, by cold, applied either to the extremities or to the belly itself; by a free use of un-ripe fruits, and by great irregularity in the mode of living. From its occurring frequently in Devonshire, and other cider countries, it has been supposed to arise from an impregnation of lead received into the sto-mach; but this seems to be a unistake, as it is a very mach; but this seems to be a mistake, as it is a very prevalent disease in the West Indies likewise, where

louantity of lead in the mills employed to extract the just enumerated, may justly be said always to give rise

to this species of colic

The disease comes on gradually, with a pain at the pit of the stomach, extending downwards to the intestimes, accompanied with eructations, slight sickness at times, accompanied with cruciations, signi sickness at the stomach, thirst, anxiety, obstinate costiveness, and a quick contracted pulse. After a short time, the pains increase considerably in violence; the whole region of the belly is lightly painful to the touch; the muscles of the abdomen are contracted into hard irregular knots or lumps; the intestines themselves exhibit symptoms or times. The intensities the increase and the spasin, insomuch that a glyster can hardly be injected, from the powerful contraction of the sphincter ani; and there is constant restlessness, with a frequent vomiting of an acrid or porraceous matter, but more particularly after taking either food or medi-

pon a farther increase of the symptoms, or their not being quickly alleviated, the spasms become more frequent, as well as violent; the costiveness proves invincible, and an inflammation of the intestines ensues, which soon destroys the patient by gangrene. In an advanced stage of the disease, it is no uncommon occurrence for dysuria to take place, in a very high de-

The dry hellyache is always attended with some degree of danger; but which is ever in proportion to the violence of the symptoms, and the duration of the disease. Even when it does not prove fatal, it is too disease. Even when it does not prove tatal, it is not apt to terminate in palsy, and to leave behind it contractions of the hands and feet, with an inability in their musclest operform their office; and in this miserable state of existence, the patient lingers out many wretched years.
Dissections of this disease usually show the same

morbid appearances as in common colic, only in a much higher degree; namely, irregular contractions and distentions of the intestines, often with marks of

[Miners, and manufacturers of white-lead, red-lead, plumbers, pewterers, shot-casters, are all subject to the same forms of disease which attack painters. In making white-lead, in the old way, the most dangerous time is when the pots are uncovered, and during that operation, few or none of those engaged in the corroding house escape without a severe turn of the painters' choice. In making red-lead, the persons who attend the furnace and stir the metal, never escape the operation with impunity, being attacked with weakness, loss of appetite, nervous trembling, or choice. White and red-lead are the most extensively used, and produce the most mischief, but the other preparations [Miners, and manufacturers of white-lead, red-lead, produce the most mischief, but the other preparations of lead exert a similar injurious effect upon the human constitution

Dr. James Mann, hospital-surgeon in the U.S. army Dr. James main, hospital-surgeon in the cost, any during the late war, has related the ill effects arising from the use of the acetate of lead as an astringent. When the dysentery prevailed in the northern army on the frontiers of New-York and Canada, it was found that a few grains of acetate of lead was effectual. found that a few grains of acetate of lead was effectual in restraining the evacuations. In some cases, where it was necessary to continue the remedy, the disease was allayed; but the patients afterward died with torpor or paralysis of the intestines, or other fatal operation of the lead as a poison. A.j.

3. Colica steroerae, which happens from obstinate and long continued costiveness.

4. Colica accidentalis, called also cholera sicca, from acrid undirected matters.

acrid undigested matters 5. Colica meconialis, in infants, from a retention of

necomm.

6. Colica callosa, with a sensation of a stricture in some part of the colon, and frequently of previous flatulence, gradually passing off; the habit costive, or faces liquid, and in small quantity.

7. Colica calculosa, from calculi formed in the intestines, attended with a fixed bardness in some part of the abdomen. It is distinguished by the previous discharge of calculi.

8. Cotica flatulentia may be added to these species. It is distinguished by a sudden fulness, with pain and constipation, relieved by a discharge of wind from the mouth, or anus.

The colic is distinguished from inflammation of the no cider is made, and where there is only a very small intestines by the pain being wringing, and not of a

harning kind; by the spasmodic contraction of the abdominal muscles; by the absence or trifling degree of fever; by the state of the pulse, and by the diminution of pain upon pressure, which increases it in

The flatulent and inflammatory colic are thus distinguished from each other :- In the flatulent colic, the pain comes on by fits, flies from one part of the bowels to another, and is much abated by a discharge of wind, either upwards or downwards; but in the inflammatory colic the pain remains equable, and fixed and set-tled in one spot; the vomitings are severe, and fre-quently bilious; the belly is obstinately bound, and

the pulse quick and feverish.

The colic should be distinguished from a fit of the gravel; stones passing through the ureters; rheumatic pains in the muscles of the belty; a beginning dysen tery; the blind piles; and from a stone passing through the gall-duct. Gravel in the kidneys produces often colic pains, not easily distinguishable; but when stones pass through the ureters, the testicle on that side is often retracted, the leg is benumbed, a pain shoots down the inside of the thigh; symptoms occasioned by the stone passing through the ureter over the spermatic chord, or the sacro-sciatic nerve. Rheumatic matic chord, or the sacro-sciatic nerve. Rheumatic pains in the muscles of the belly rarely affect so accupains in the muscles of the early largely aneeds of activate the unabilical region, but dart in various directions, to the chest, or to the pelvis, and are attended with soreness, not confined to the abdomen. A beginning dysentery differs little from colic. The pain from the blind piles is confined to the rectum: and that from a stone in the gall-duct, is felt in the pit of the stomach, occasionally shooting through the body to the back

The treatment of this disease must vary according to its form: but the leading indications are, 1. To obviate inflammation. 2. To relax the spasm, and relieve the pain attending. 3. To remove local irritation, especially by evacuating the alvine contents. 4. By various prophylactic measures to guard against a

relapse.

1. The chief danger arising from inflammation su-1. The chief adager arising from innammation su-pervening, it may be prudent to anticipate this, where the habit and strength will allow, by taking away an adequate quantity of blood from the arm, or more generally by leeches to the abdomen, but especially where any sign of inflammation appears, this plan be-comes necessary, followed by a hot bath, or fomenta-tions, a blister to the abdomen, &c. as detailed under

conterities.

2. The means already noticed may serve to relax spasm also, though not requisite in slight cases, besides the various antispasmodic remedies, as ather, assate-tida, &c., thewise aromatics, or spirituous liquors, will often by their stimulus on the stomach afford relief in flatulent colic, though their use is sometimes hurtful; but by far the most powerful remedy is opium in ade-quate quantity, which is best regulated in severe at-tacks, by giving divided doses at short intervals till ease is obtained.

a. Local irritation may sometimes be relieved by chemical remedies, as antacids, particularly magnesia, cc.; but for the most part the evacuation of the intestines should be attempted, when the pain is relieved. To prepare for this, caloniel may be given in conjunction with the opium, and when the patient has been some time at ease, this may be followed up by castor oil, sulphate of magnesia, or other mild laxative, re-peated till the desired effect be produced; or where these do not presently operate, some more active catharties, as the compound extract of colocynth, jalap, acc. should be tried. If the stomach be irritable, the effervescing saline draught may enable it to retain them; and clysters will often assist the articles taken by the mouth, particularly where there are indurated faces. In very obstinate cases, an injection of tobacco smoke has often succeeded in procuring evacuations: also putting the feet for some time in cold water, or touring this on the abdomen and lower extremities. Sometimes it has been necessary to remove feeca ac-

cumulations mechanically per anum.

4. The great liability of this complaint to return renders it necessary for some time after carefully to regulate the diet, to attend to the state of the bowels. as well as of the liver, to avoid the several causes, especially cold, maintaining the functions of the skin by suitable clothing, exercise, &c. In the colica picto-

num, stimulant aperients, as the peruvian balsara, mustard, &ce. steadily persisted in, will mostly effect a complete cure; and mercury has been by some highly extelled; by others, astringents, especially alum, though a stable to some and the stable of t certainly somewhat objectionable, as liable to confine

COLICA ACCIDENTALIS. Colic from crudities in the

COLICA ARTERIA SINISTRA. The lower mesenteric COLICA ARTERIA SUPERIOR. The upper mesenteric

artery

COLICA BILIOSA. Colic from excess of bile. COLICA CALCULOSA. Colic from stony matters in

the intestines. COLICA CALLOSA. Colic from hardened and obstinate strictures.

COLICA DAMNONIORUM. Colic peculiar to Devonshire. See Colica.

COLICA PEBRICOSA. Colic with fever.

COLICA FLATULENTA. Colic from wind.
COLICA GRAVIDARUM. Colic in pregnant women.
COLICA HYSTERICA. Hysteric colic.

COLICA LACTANTIUM. Colic peculiar to nurses.
COLICA LAFSONICA. Colic peculiar to Laplanders
COLICA MECONIALIS. Colic from meconium in in-

fants. COLICA MESENTERICA. Colic from diseased me-

COLICA NERVOSA. The nervous colic

COLICA PANCREATICA. Colic from diseased pan-

COLICA PHLOGISTICA. Colic with inflammation.

COLICA PHLOGISTICA. CUIRCA.
COLICA PICTORIM. See Colica.
COLICA PITUTOSA. The spaspodic colic.
Colica PLETHORICA. The inflammatory colic.

COLICA PLUMBARIORUM. The colic of lead-workers. COLICA PULSATILIS. The inflammatory colic. COLICA SATURNINA. The Devoushire colic. See

COLICA SCIRRHOSA. The colic from scirrhous tu-

Colica spasmodica. The spasmodic colic.
Colica stercorea. Colic from retained fæces.
Colica vena. A branch of the upper mesenteric

COLICA VENA RECTA. The vein of the colon. COLICA VERMINOSA. The colic from worms.

COLICA VERMINOSA. The voin of the colon.
COLICE. The colic.
COLIFORMIS. (From cola, a strainer, and forma, a likeness; so called from its having many perforations, like a strainer.) Califorme os. A name for merly given to the ethmoid bone.

Coll'ferium. (From κωλον, a limb, and ιφι, strongly.) A kind of bread given to wrestlers. It was made of flour and bran together, and was thought to

make men athletic

make men atmetic.
Co'lis. See Coles.
COLLA/PSUS. (From collabor, to shrink down.)
A wasting or shrinking of the body, or strength.
Collate/na. A specific vulnerary.
Collatera/les. So Spigelius calls the erectores penis, from their collateral order of fibres.
Colletica. (From κολλα, glue.) Conglutinating

(From colligo, to collect.) COLLT'CUE. of the ducts, which convey the humours of the eyes from the puncta lachrymalia to the cavity of the nose.

(Diminutive of collis, a hill.) COLLICULUM. A small eminence.

2. The nympha, or prominency, without the vagina COLLIGA'MEN. (From colligo, to tie together.)

A ligament.

COLLINS, SAMUEL, was born in the early part of the 17th century. After studying at Cambridge and Oxford, he went to the Russian court as physician, and continued there nine years. On his return, he was made Fellow of the College of Physicians in London. He afterward published a History of the Court of Russia, and, in 1685, a system of anatomy, treating of the body of man, animals, and plants, with numerous plates. The comparative anatomy, to which Dr. Tyson greatly contributed, was much admired, though now superseded by other publications.

COLLIQUAMENTUM. (From colliqueo, to met.) A term first made use of by Dr. Harvey, in his appli-

cation of it to the first rudiments of an embryo, in ge-

COLLI'QUATIVE. (Colliquativus, from queo, to melt.) Any excessive evacuation is so called which melts down, as it were, the strength of the hence colliquative perspiration, colliquative

diarrhea, &c.
COLLI'SIO. (From collido, to beat together.) A contusion.

(From κολον, food.) A troch, or lozenge.

CO LLIX. (Prom κολον, food.) A troch, or lozenge. COLLOBOMA. (From κολλαω, to glue together.) Colobroma. 1. The growing together of the cyclids. 2. The want of any member of the body. COLLO'DES. (From κολλα, glue.) Guttinous. CO'LLUM. (From κολλογ, a member, as being one of the chief; or diminutive of cotumma, as being the pillar and support of the head.) The Neck. See Neck.

Neck.
COLLUTION. Collatio. The washing of the mouth, or any other part.
COLLUTO'RIUM. (From colluo, to wash.) A gargarism, or wash for the mouth.
COLLUVIES. (From colluo, to cleanse.) Filth;
Excrement. The discharge from an old ufcer.
CO'LLYRIS. (Koddops. A little round cake; so called from its likeness to a cake.) A bump, or knob, which rises after a block.

which rises after a blow.

Colly RIUM. (From κωλυω, to check, and ρους, a defluxion; because it stops the defluxion.) A medition was formerly so called which was applied to check any discharge. The term is now only given to

fluid applications for the eyes, or eye-waters.

[COLUNDATA, the plural of Collyrium. "The Collyria of the Pharmacopæia are metallic lotions, prepared of such strength as to be applicable to the eyes in many cases of disease; also occasionally to mucous membranes of other parts, and to inflamed or exco-

COLLYRIUM, PLUMBI ACETATIS. Collyrium of acetate of lead. This is of use as a sedative and astringent lotion in some forms of chronic ophthalmia. It is also useful as a discutient in erysipelatous and other se also usern as a discuttent in eryspectatous and other superficial inflammations. It is sometimes employed as an injection in gonorrhœa; but when this practice is adopted, a weaker solution is preferable.

Collyrium plums acceptatis er out. Collyrium of opium and acceptatis effects. This resembles the pre-

ceding, but agrees better with irritable cases of chronic opthalmia.

COLLYRIUM ZINCI ACETATIS. Collyrium of of zinc. A double decomposition takes place during the preparation of this article; sulphate of lead is depo-sited, and acetate of zinc remains dissolved. It is a valuable astringent collyrium.

Valuable astringent contribute.

Collyrium aims suppharts. Collyrium of sulphate of zinc. This is one of the best astringent lotious for cases of ophthelmia, which requires remedies of that class. I have observed it to agree particularly well with the weak eyes of nursing women.—Big. Mat. Med. A.]

COLOBOMA. See Colloboma.

COLOBO MATA. In Celsus this word is expressed by curta. Both the words signify a deficiency in some part of the body, particularly the ears, lips, or alse of

The nostrils.

Coloca Sia. (From κολον, food, and καζω, to adors; so called from its use as a food, and the custom of wearing its flowers in wreaths.) The faba Keyptia. See Nymphac netumbo.

Colocy NTHIS. (From κωλον, the colon, and κινω, to move; because of its great purging powers.)

Colo MBO. See Cucumis colocynthis.

Co'LON. (Colon, i. neut.; Κώλον, quasi κοιλον; from its generally being found empty, and full of wind from its generally being found empty, and full of wind

from rothes, hollow: so called from its capacity, or from its generally being found empty, and fuil of wind in dissection.) The greater portion of the large intestine is so called. It proceeds towards the liver, by the name of the ascending portion of the colon; and having reached the liver, forms a transverse arch across to the other side. The colon then descends, forming what is termed its sigmoid Heavire, into the pelvis, where the gut is called rectum. See Intestine. COLOPHO'NIA. (Kohopovia, the city from whence it was first brought.) Colophony. I. The black resin which remains in the retort, after distilling the common resin with a strong fire.

mon resin with a strong fire.

2. Paracelsus seems to mean by it what is now prescribed by the name of tercbinthina cocta

scribed by the name of terchinthina coeta.

3. The ancients, and particularly Gaten, seemed to understand by it a soft kind of mastich, from Chio, probably the same as our Cho turpentine.

COLOPHONITE. Resinous garnet of Hady and Jameson. A mineral of a blackish or yellowish brown, or orange-red colour, and a resino-adamantine Insterection of the control of the co

Coylon.
COLOQUINTIDA. See Cucumis colocynthis.
COLORATUS. Coloured: applied to leaves, calyces, seeds, &c. to express any colour besides green, as in .-trum bicolor; or to any part thereof when of another colour than green, as in .-thmaranthus tricolor; and to a perianthum, when not of a green colour, as that of the Gomphrena globosa; and the seeds of Chaballand agreen.

that of the cromparcial groods. The discrete repopulging aversum.

COLO'STRUM. (From κολογ, food, οτ κολλωμαι, to agglutinate; so called, either because it is the first food of the young, or from its being at that time peculiarly glutinous.)

1. The first milk in the breasts of the property of the pr

after delivery.

2. An emulsion made by the solution of turpentine

2. An emulsion made by the solution of turpentine with the yelk of an egg.

COLOT, Germain, a French surgeon of the 15th century, appears to have been the first of the profession who practised lithotomy, that operation having been previously in the hands of innerant practitioners. He acquired great celebrity by his skill, and was much in favour with Lewis IX., who granted blim a pension. Several of his descendants, in succession, enjoyed great requisition as lithotomists. great reputation as lithotomists.

great reputation us fithotomists.

COLOT, Francis, the last of them, left a treatise, published in 1727, describing the method of operating with the greater apparatus, the invention whereof he ascribes to John de Romanis, an Italian physician, about two centuries before. But this has long been superseded by the less apparatus, which Mr. Sharp attributes to another French surgeon, Mons. Foubert. Colotofibes. (From Kolderfis, a lizard, and colos, likeness.) Variegated like the skin of a lizard. Hippocrates amplied it to the excrements.

pocrates applied it to the excrements.

pocrates applied it to the excrements.

Coloured leaf. See Leaf.
COLPOCE'LE. (From κολπος, the vagina, and κηλη, a tumour.) A hernia forced into the vagina. See Hernia vaginalis.

COLPOPTO'SIS. (From κολπος, the vagina, and πιπτα, to fall down.) A bearing down of the vagina. See Hernia vaginalis.
COLT'S-FOOT. See Tussilago.
CO'LUBER. (Quod colit umbram, because it delighteth in the shade.) A genus of animals in the Linnean arrangement, of which there are many species. species

COLUBER BERUS. The systematic name of the viper, which possesses the power of forming a poisonous
fluid in little bags near its teeth. The flesh is perfectly
innocent, and often taken by the common people
against the king's evil, and a variety of disorders of Experience evinces it to be an inefficacious substance.

COLUBRI'NA VIRGINIANA. See Aristolochia scrpentaria.

COLUBRINUM LIGHUM. (Colubrinus; from coluber: so called from the snake-like contortions of its roots.) This species of snake-wood is brought from America. It is solid, ponderous, acrid, extremely bitter, and inodorous; its bark is of a ferruginous colour, covered

odorous; its bark is of a ferruginous colour, covered with cineritious spots.

COLUMBA. See Calumba.
COLUMBIC ACID. Jeidum Columbicum. "The experiments of Hatchett have proved, that a peculiar mineral from Massaciusetts, deposited in the British Museum, consisted of one part of oxide of iron, and somewhat more than three parts of a white-coloured substance, possessing the properties of an acid. Its basis was metallic. Hence he named this Columbium, and the acid the Columbic. Dr. Wolfaston, by very exact analytical comparisons, proved, that the acid of Hatchett was the oxide of the metal lately discovered in Sweden by Ekeberg, in the mineral yttro-fantalite, and thence called tantalum. Dr. Wolfaston's method of separating the acid from the mineral is fantatile, and themee caned thirding. Dr. Wollas-ton's method of separating the acid from the mineral as peculiarly elegant. One part of tantalite, five parts of carbonate of potassa, and two parts of borax, are fused together in a platina crucible. The mass, after

being softened in water, is acted on by muriatic acid. The iron and manganese dissolve, while the columbic acid remains at the bottom. It is in the form of a white powder, which is insoluble in nitric and sulphuric acids, but partially in muriatic. It forms with barytes an insoluble salt, of which the proportions, according to Berzelius, are 24.4 acid, and 9.75 barytes. By oxidizing a portion of the revived tantalum or columbium, Berzelius concludes the composition of the acid to be 109 metal, and 5.485 oxygen."

To sense; but now it means a lethargic drowslines. In botany, 1. A fasciculus of leaves on the top of a stem or stipe. It is said to be, a. Follose, when formed at leaves; as in Bromelia and successful acid to be 109 metal, and 5.485 oxygen."

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Journal of the review a traction of columbium, Berzelius concludes the composition of the acid to be 100 metal, and 5.485 oxygen."

COLUMBINE. See Aquategia.

COLUMBIUM. Hatchett describes the ore, from which this metal is obtained, as being of a dark brownish gray externally, and more inclining to an iron-gray internally, the longitudinal fracture he found lamellated, and the cross fracture had a fine grain. Its lustre was vitreous, slightly inclining, in some parts, to metallic; moderately hard, and very brittle. The colour of the streak, or powder, was dark chocolate-brown. "If the oxide of columbium, described under Columbia eacid, be mixed with charcoal, and exposed to a violent heat in a charcoal crucible, the metal columbium will be obtained. It has a dark gray colour; to a violent heat in a charcoal crucible, the metal co-lumbium will be obtained. It has a dark gray colour; and when newly abraded, the lustre nearly of iron. Its sp. gr., when in agglutinated particles, was found by Dr. Wollaston to be 5.61. These metallic grains scratch glass, and are easily pulverized. Neither ni-tric, muristic, nor nitro-muriatic acid, produces any change in this metal, though digested on it for several days. It has been alloyed with iron and tungsten."

[This metal, which was said to have been first dis-

(This mes been anoyed with from and thingsten.)

(This metal, which was said to have been first discovered in a specimen found in Massachusetts, it appears (Med. Repos. vol. viii. p. 437) was taken from a spring of water in the town of New-London, in Connecticut, and near the house in which Governor Winthrop used to live, about three miles distant from the margin of the salt water at the head of the harbour.

"Within a short time after the discovery of columbium by Mr. Hackett in 1801, a metallic substance was also discovered in Sweden, by Mr. Ekcherg, differing from every metal then known to him; and accordingly he described the properties by which it might be distinguished from those which it most nearly resembled. But although the Swedish metal has retained the name of Tantalum, given to it by Mr. Ekcherg, a reasonable degree of doubt has been entertained by chemists, whether these two authors had not, in fact, described the same substances; and it has been regretted that the discoverest themselves, who would have been most able to remove the uncertainty, had not been most able to remove the uncertainty, had not had opportunities of comparing their respective minerals, or the products of their analyses."—Min. Jour.

The doubt, however, has been removed, as Dr. Wol-laston had obtained portions of both metals, and upon examination and analysis has determined, that Co-lambium and Tantalum are one and the same me-

tal. A.]

COLUMBE LLA. (Diminutive of columna, a columna). 1. A column or little pillar.

2. The central column, or filament, which unites the partitions of the capsule of plants. The seeds are usually attached to it. See also Uvula and Clitoris.

COLUMELLA'RIS. (From columella, a little column.)

COLUMNIA CARNEA. See Heart.
COLUMNIA ORD part of the septum.
COLUMNIA A column, or pillar. Many parts of the body, which in their shape or office resemble columns, are so named; as columns carnex, &c.
COLUMNIA CARNEA. See Heart.
COLUMNIA NABI. The lowest and fleshy part of the nose, which forms a part of the septum.
COLUMNIFERE. The name of an order of large in the many of a Natural Method.

plants in Linneus's Fragments of a Natural Method, consisting of plants, the stamina and pistil of which have the appearance of a pillar in the centre of the

Hower.

COLUMNULA. A little column. The name given by botanists to the filament which passes through the middle of the capsule of frondose mosses, to which the seeds are connected; also called Sphrongulium.

Columnum. (Hora to kodden to court because it prevents a defluxion.) A tent to thrust into a sore, to prevent a defluxion of humours.

COMA. (From k.o., or keo., to lie down.)
In pathology, a propensity to aleep. This word anciently meant any total suppression of the powers.

apex of the stipe; as in Palms.

c. Bracteal, formed of floral leaves; as in Laven-

dula stechas.

2. Gærtner applies this term to the feathery crown of seeds furnished with a capsule.

COMA SOMNOLENTUM. Is when the patient continues in a profound sleep; and, when awakened, immediately relapses, without being able to keep open his eyes.

A disease where the patients are con-

COMA VIGIL. A disease where the patients are continually inclined to sleep, but cannot.

CO MATA. (Comata, the plural of coma.) An order of the class Neuross of Cullen's Nosoiogy, embacing diseases that are characterized by a diminution of the powers of voluntary motion, with sleep or the senses impaired.

COMATOSE. Having a strong propensity to sleep. COMBINATION. The intimate union of the particles of different substances by chemical attraction, as in form a compound possessed of new and possessed as let form a compound possessed of new and possessed as let form a compound possessed of new and possessed as let form a compound possessed of new and possessed as let form a compound possessed of new and possessed as let form a compound possessed of new and possessed as let form a compound possessed of new and possessed as let form a compound possessed of new and possessed properties are considered as the constant of the particles of the constant of the particles of the particles

so as to form a compound possessed of new and pecu-

ar properties.

COMBUSTIBLE. Having the property of burning.

COMBU'STIO. (From comburo, to burn.) A burn,

COMBUSTION. (Combustio; from combure, to COMBUSTION. (Combustio; from combure, to During. Among the various operations of During.) burn.) Burning. Among the various operations of chemistry, none acts a more conspicuous part than combustion; and in proportion to its utility in the science, the necessity of thoroughly investigating its nature and mode of action, becomes more obvious to

the philosophical chemist.

Lavoisier's Theory of Combustion.

Lavoisier's theory of combustion is founded upon

the absorption of oxygen by a combustible body.

Taking this for granted, it follows that combustion is only the play of affinity between oxygen, the matter

is only the play of amily between oxygen, the matter of heat, and a combustible body.

When an incombustible body (a brick for instance) is heated, it undergoes no change, except an augmentation of bulk and temperature; and when left to itself, it soon regains its former state. But when a combustible body is heated to a certain degree, in the open air, it becomes on a sudden intensely hot, and at open air, it becomes on a sudden intensely hot, and at last emits a conjoin stream of caloric and light to the surrounding bodies. During this emission, the burning body gradually wastes away. It either disappears entirely, or its physical properties become totally altered. The principal change it suffers, is that of being no longer capable of combustion. If either of these phenomena, namely, the emission of heat and light, and the waste of substance, be wanting, we do not say that a body is undergoing combustion, or that it is burning. It follows, therefore, that every theory of combustion ought to explain the following facts

Why a burning body is consumed, and its indivi-

duality destroyed.

2. Why, during the progress of this alteration, heat and light are emitted.

For the elucidation of these objects, Lavoisier's

For the culculation of these objects, Lavoisier's theory has laid down the following laws:

1. Combustion cannot take place without the presence of oxygen, and is more rapid in proportion to the quantity of this agent, in contact with the inflamed

body.
2. In every act of combustion, the oxygen present is consumed.

3. The weight of the products of every body after combustion, corresponds with the weight of the body before combustion, plus that of the oxygen consumed

sumed.

4. The oxygen absorbed by the combustible body may be recovered from the compound formed, and the weight regained will be equal to the weight which disappeared during the combustion.

5. In every instance of combustion, light and heat, or fire, are liberated.

6. In a limited quantity of air, only a certain quantity of the combustible body can be burnt.

7. The air, wherein a body has been burnt, is ren

dered unfit for continuing combustion, or supporting ; that the light and heat emitted during combustion,

Though every case of combustion requires that light and heat should be evolved, yet this process proceeds very differently in different circumstances; hence the terms ignition; or glowing heat; inflammation, or accension; and detonation, or explosion.

Ignition takes place when the combustible body is in an aëriform state.

Charcoal, pyrophorous, &c. furnish instances of this kind.

It seems as if the phenomenon of glowing was peculiar to those bodies which require a considerable quantity of calone, to become converted into the gaseous state.

The disengagement of caloric and light is rendered

more evident to the senses in the act of

Inflammation, or accension. Here the combustible substances are more easily converted into an elastic or substances are more easily converted into an elastic or aériform state. Flame, therefore, consists of the inflammable matter in the act of combustion in the gaseous state. When all circumstances are favourable to the complete combustion of the products, the flame is perfect; if this is not the case, part of the combustible body, capable of being converted into the gaseous state, passes through the luminous flame unburnt, and exhibits the appearance of smoke. Soot, therefore, always indicates an imperfect combustion theme a common tanus smokes, an Argand's lamp Hence a common tamp smokes, an Argand's lamp yields no smoke.

This degree of combustion is very accurately ex-

emplified in the

emplified in the Flame of candles.—When a candle is first lighted, which must be done by the application of actual flame, a degree of heat is given to the wick, sufficient to destroy the affinity of its constituent parts; part of the tallow is instantly melted, volatilized, and burnt. As this is destroyed by combustion, another portion melter rises, and supplies its place, and undergoes a like change. In this way combustion is maintained. The tallow is liquefied as it comes into the vicinity of the flame, and is, by the capillary attraction of the wick,

flame, and is, by the capillary attraction of the wick, drawn up to supply the place of what is burnt; the unmelted tailow, by this means, forms a kind of cup. The congeries of capillary tubes which form the wick is black, because the charcoal of the cotton becomes predominant, the circumambient air is defended by the flame from oxidising it; it therefore remains, for a considerable time, in its natural state; but when the wick, by the continual consumption of tailow, becomes too long to support itself in a perpendicular position, its upper extremity projects nearly out of the cone of the flame, and there forms a support for an accumulation of soot, which is produced by the imperfect combustion. A candle, in this stipation. imperfect combustion. A candle, in this situation, affords scarcely one-tenth of the light it can otherwise give, and tallow candles, on this account, require continual snuffing.

But if the candle be made of wax, the wick does not long occupy its place in the middle of the flame; its thinness makes it bend on one side, when its length is too great for its vertical position; its extremity comes then into contact with the air, and is completely burnt, or decomposed, except so much of it as is de fended by the continual afflux of the melted wax. This small wick, therefore, performs the office of snuffing itself. The difficult fusibility of wax enables us to use a thinner wick for it than can be used for tallow, which is more fusible. But wax being a substance which contains much more oxygen than tallow or oil, the light it affords is not so luminous.

Detonation is an instantaneous combustion, accompanied with a loud report; it takes place in general when the compounds resulting from the union of two when the compounds resulting from the union of two or more bodies, occupy much more or less space than the substances did before their union; a great impulse is therefore given to the surrounding air, or else a vacuum is formed, and the air rushing in from all sides to fill it up is the cause of the report.

A mixture of oxygen and hydrogen gases detonates very loud. Gunpowder, fulminating gold, silver, and mercury; oxygenated muriate of potassa; and various other explosive compounds, are capable of producing

other explosive compounds, are capable of producing

very loud detonations.

With respect to the disengagement of light and caloric.

By the older chemists, it was universally supposed

proceeded from the inflammable body; and this opi-mon would indeed appear unquestionable, while the composition of the atmosphere was unperfectly known. The burning body appeared luminous and felt hot, and no other agent was supposed to be concerned; the conclusion that the light and heat were evolved from the burning substance, was, therefore, unavoidable. But when the nature of the astmosphere was ascertained, and when it became evident that part of ascertained, and when it became evident that part of the air was absorbed during combustion, the former conclusion fell to the ground; for when twobodies exert a mutual action on each other, it becomes a priori-equally probable that the products may be derived from either of them; consequently, the light and heat evolved might proceed either from the one or the other. Whether they proceed from the atmosphere, or from the combustible body, they must be separated at the part where the combination takes place; that is, at the part where the combination takes place; that is, upon the surface of the burning body itself; and con-sequently it appeared luminous and heated, while the

air being invisible escaped observation.

When the laws of heat became known, at least when it was ascertained that bodies contain at the when it was ascritained that bodies contain at the same temperature, and in equal quantities, either of mass or bulk, unequal quantities of heat, the conclu-sion became probable, that the caloric evolved in com-bustion proceeded rather from the oxygen gas of the atmosphere, than from the combustible body; since the former contains a much larger quantity than the latter. The caloric evolved was therefore supposed to be derived from the condensation of the oxygen gas in the new combination into which it entered.

In the new commination must be intered.

Though approaching to the truth, this explanation is not strictly true. It is not merely from the oxygen gas being condensed that the caloric is evolved, because, in many cases of combustion, the product still exists in the gaseous state, and in others, the quantity of caloric evolved bears no proportion to the degree of condensation. Philosophers ascribed this to a change of caloric evolved hears no proportion to the degree of condensation. Philosophers ascribed this to a change of capacity; for, in different bodies, the difference in the proportion of the capacities before and after com-bustion, is by no means uniform; and hence the dif-ference in the quantities of caloric extricated in various cases of combustion.

This being premised, it remains to explain the origin of the light emitted during combustion; for although we take it for granted that the caloric is evolved from the oxygen gas, we cannot infer that the light has the same origin.

It is very probable that light is a constituent part of inflammable bodies; for it is frequently evolved in combinations when the oxygen is merely transferred combinations when the oxygen is merely transpersed from one inflammable substance to another. In those cases it must proceed from the inflammable body, The accension of oils by the affusion of acids, the combination of metals in the same way, furnish in stances of the kind.

It seems, therefore, probable, that the light is de-rived from the inflammable substance; and that the oxygen, combining with the bases of these substances, disengages the light.

usengages me igm.

It may be concluded then, that light enters into the composition of all combustible bodies; but as we are unable to separate the light, so as to obtain these bodies pure, we treat of them as simple bodies.

nodies pure, we treat of them as simple bodies. According to this theory, the combustion of phosphorous in oxygen gas, is, therefore, the effect of a double affinity. The basis of the oxygen gas unites with the phosphorus, to form phosphoric acid; and the light disengaged from the phosphorus, together with the heat of the oxygen gas, produces the vivid

The quantity of light emitted by different bodies is The quantity of fight enfilled by official to out a supposed to depend on the quantity contained in them, and on the proportion in which it is united to caloric. Such is the theory of combustion of Lavoisier, mo-

Such is the theory of combustion of Lavoisier, modified by Gren, Leonardi, and Richter.

Thomson's Theory of Combustion.

Though the preceding theory of combustion is simple and beautiful, it appears, from what we are now going to state, to be by no means completely satisfactors.

It has misled chemists, by confining the term combustion to the act of oxygenation, and considering that all bodies, during their combustion, combine with oxygen, without at the same time recollecting that this

latter effect may take place without any of the phenomena usually attendant on combustion; and that, though certainly all combustion presupposes the combination of oxygen with a base, yet this combination may be, and repeatedly is, effected where no combusmay be, and repeatedly is, effected where no computation can possibly take place. Nothing can be more evident than the difference which, in numberless instances, prevails between the act of oxygenation in bodies and that of combustion, inasmuch as neither the phenomena attending on, nor the results arising from them, are the same. That a distinction therefrom them, are the same. That a distinction there-fore should be made between these processes is obvious; and it is on this account that Dr. Thomson has offered a theory, which considers this subject in a new point of view, and which bids fair to enable us to estimate the phenomena of combustion much better than has hitherto been done.

According to Dr. Thomson's theory, all the bodies concerned in combustion are either, 1. Combustibles.

-2. Supporters of combustion.-3. Incombustibles.

I. COMBUSTIBLE BODIES are those substances which are said, in common language, to burn. During the combustion, they appear to emit light and heat, and, at the same time, gradually waste away. When this change has reached its maximum, the process of com-

bustion is at an end.

The class of combustibles is very numerous; but all the bodies belonging to it may be subdivided into

three sets, namely:
1. Simple combustibles.

2. Compound combustibles. 3. Combustible oxides, &c. Simple Combustibles.

 Hydrogen gas.
 All the metals. 1. Sulphur. Phosphorus.

2. Proopnorus.
3. Diamond, or Carbon.
6. Boron.
Compound Combastibles.
The compound combastibles uniting together, and are of course much more numerous than the simple combustibles. They may be arranged under the five following heads:

3. Carburets. 1. Sulphurets.

2. Phosphurets. 4. Alloys.
5. Sulphuretted, phosphuretted, and carburetted hydrogen.

The combustible oxides are either simple, having a single base, or compound, having more than one base. All the simple combustible oxides are by combustion converted into acids.

The compound combustible oxides are by far the

most numerous.

The supporters of combustion are bodies which are not of themselves, strictly speaking, capa-ble of undergoing combustion, but which are abso-lutely necessary for the process; for no combustible body can burn unless some one or other of them be prebody can ourn unless some one of other of them be pre-sent. Whenever they are excluded, combustion ceases. All the supporters of combustion known at present are oxygen, chlorine, iodine, and the com-pounds which these form with each other, and with

There are indeed certain substances besides these which possess nearly the same properties; these shall be afterward enumerated under the title of partial

III. The INCOMBUSTIBLE BODIES are neither capable of undergoing combustion themselves, nor of supporting the combustion of those bodies that are; they are therefore not immediately connected with combustion though most of them appear to be the results of that process. Azot, the alkalies, earths, &c. come under this division.

Some of the alkalies and earths possess certain properties in common with combustibles, and are capable of exhibiting phenomena somewhat analogous to combustion; which will be described afterward under

the title of semi-combustion.

In every case of combustion, there must therefore In every case of combustion, there must therefore he present a combustible body, and a supporter of combustion. During combustion, the combustiole always unites with the supporter. It is this combination of the combustible. The new compound thus formed is a product of combustion. Every product of combustion is either, 1. an acid, or, 2. an acide, &c. It is true, indeed, that other bodies sometimes make their supersuppersuppersupport of the supersupersuppersu appearance during combustion, but these will be found,

upon examination, not to be products, nor to have un-

dergone combustion.

Thus one of the two characteristic marks which distinguish combustion, namely, the apparent waste and alteration of the combustible body, has been fully explained. For the explanation of it we are indebted to Lavoisier, as stated before.

But though the combination of the combustible But though the combination of the combustions with oxygen, or other supporter, be a constant part of combustion, yet the facinty with which combustibles burn is not proportional to their apparent affinity for

Phosphorus, for instance, burns more readily than charcoal; yet charcoal is capable of abstracting oxygen from phosphorus, and of course has a greater affinity for it. Some of the combustible oxides take fire more for it. Some of the combustione oxides take are more readily than some of the simple combustibles; alkohol, ather, and oils, are exceedingly combustible, whereas all the metals require very high temperature when the supporter is air.

This greater combustibility of combustible oxides is probably owing to the weaker affinity by which their particles are united. Hence they are more easily separated than homogeneous particles, and of course combine more readily with oxygen; those simple combustibles which melt easily, or which are in the state of lastic fluids, are also very combustible, because the cohesion between their particles is easily overcome.

It is owing to the same inferiority in the cohesion of heterogeneous particles, that some of the compound supporters occasion combustion in circumstances when the combustibles would not be acted on by

simple supporters.

Thus phosphorus burns in air at the common temperature; but it does not burn in oxygen gas, unless its temperature be raised. Thus also oils burn rapidly when mixed with uitric acid. Nitrous gas and nitrous oxide constitute exceptions to this rule.

None of the products of combustion are combustible, according to the definition of combustion here This want of combustibility is not owing to given. This want of combustibility is not owing their being saturated with oxygen; for several of them are capable of combining with an additional dose of it. But, during this combination, no caloric or light is ever emitted; and the compound formed differs essenever emitted; and the compound formed differs essentially from a product of combustion; for by this additional dose of oxygen, the product is converted into a supporter. Hence we see that combustion ought not to be confounded with the combination of a body with oxygen, as was done formerly.

Combustion, indeed, cannot take place without the combination of oxygen or other supporter; but oxygen may combine with budies in different proportions.

may combine with bodies in different proportions without the phenomena of combustion; and the product obtained by combustion is capable of becoming converted into a supporter of combustion; for instance, if lead be melted, and kept so for some time, it becomes covered with a gray pellicle, or oxide of lead, a product consisting of oxygen and lead; but if this oxide is suffered to be heated longer, it absorbs an adoxide is suffered to be neared longer, it absorbs an additional quantity of oxygen, and becomes converted into a yellow powder, called *yellow oxide* of lead. If this yellow oxide be again exposed to heat, it absorbs still more oxygen, and becomes converted into red oxide of lead. When the supporters thus formed by the combination of oxygen with products, are made to support combustion, they do not lose all their oxygen, but only the additional dose which constituted them our only the additional dose which constituted them supporters. Of course they are again reduced to their original state of products of combustion. Hence it follows, that they owe their properties as supporters, not to the whole of the oxygen which they contain, but to the additional dose which constituted them supporters. Whenever therefore, and them provided supporters. porters. We may therefore call them partial sup-porters; indicating by the term, that part only of their oxygen is capable of supporting combustion, and not

the whole.

All the partial supporters with which we are acquainted, contain a metallic basis; for metallic oxides quainted, contain a metallic basis; for metallic oxides are the only products at present known, capable of combining with an additional dose of oxygen. It is a circumstance highly deserving attention, that when metalls are capable of combining with several doses of oxygen, the product, or oxide formed by combustion, is solidon or never that which contains a myringing of oxygen, the pattern which contains a maximum of

Oxygen.
Thus it is evident that several of the products of

combustion are capable of combining with oxygen. The incombustibility of products, therefore, is not owing to their want of affinity for oxygen, but to some other cause

No product of combustion is capable of supporting combustion. This is not occasioned by any want of affinity to combustible bodies; for several of them are capable of combining with an additional dose of their basis. But by this combination, they lose their probasis. But by this combination, they loss their fur-perties as products, and are converted into combusti-bles. The process, therefore, differs essentially from combustion. Thus phosphoric acid, a product of combustion, is capable of combining with an addi-tional doss of phosphorus, and forming phosphorous acid, a combustible body. When this last acid is heated in contact with a supporter, it undergoes com-bustions had it is another the additional doss of the combustion; but it is only the additional dose of the com-bustible which burns, and the whole is converted into phosphoric acid. Hence we see that it is not the whole basis of these compounds which is combustible, but merely the additional dose. The compounds, therefore, formed by the union of a product and combustile, may be termed partial combustibles; indi-cating by the name, that a part only of the base is capable of undergoing combustion. Since the pro-ducts of combustion are capable of combining with oucts of combustion are capable of combining with oxygen, but never exhibit the phenomena of combustion, except when they are in the state of partial combustibles, combustible bodies must contain a substance which they lose in burning, and to which they owe their combustibility; for, after they have lost it, they unite to oxygen without exhibiting the phenomenature of the state o

mena of combustion.

Though the products of combustion are not capable of supporting combustion, they not unfrequently part with their oxygen just as supporters do, give it out to combustibles, and convert them into products; but during this process, no heat or light is ever evolved. Water, for instance, gives out its oxygen to iron, and converts it into the black oxide, a product. Thus we see that the oxygen of products just as the oxygen of supporters; but during the combination of the last only, are heat and light emitted. The oxygen of supporters then contain something which the oxygen of products wants.

Whenever the whole of the oxygen is abstracted mena of combustion.

the oxygen of products wants.

Whenever the whole of the oxygen is abstracted from products, the combustibility of their base is restored as completely as before combustion; but no substance is capable of abstracting the whole of the oxygen, except a combustible, or a partial combustible. Water, for instance, is a product of combustion, whose base is hydrogen. To restore the combustibility of the nydrogen, we have only to mix water with iron or zinc filings, and an acid; the metal is oxidized, and the hydrogen gas is evolved as combustible as ever. the hydrogen gas is evolved as combustible as ever. But no substance, except a combustible, is capable of separating hydrogen gas from water, by combining with its oxygen. Thus we see that combustibles are capable of restoring the combustibility of the bases of products: but they themselves lose their combustibility by the process, and are converted into products. Combustibility, therefore, may be thrown at pleasure from one body to another.

From these facts it is obvious that the products of

one body to another.

From these facts it is obvious, that the products of combustion may be formed without combustion; but in these cases a new combustible is always evolved. The process is merely an interchange of combustibility; for the combustible is converted into a product nelly by means of a product. Both the oxygen and the base of the product having undergone combustion, have lost something which is essential to combustion. The process is merely a double decomposition. The product yields its oxygen to the combustible, while at the same time the combustible; while I me product yields in oxygen to the combustible, while at the same time the combustible gives out something to the base of the product; the combustibility of that base then is restored by the loss of its oxygen, and by the restoration of something which it receives from the other combustible thus converted into a product.

There is indeed another method of forming the products of combustion without actual combustion in certain cases; but the phenomena are much more complicated. This method is to expose them to the action of some of the supporters dissolved in water; especially nitric acid. Thus most of the metallic oxides may be formed without combustion by the action of that acid on the metals. But, in that case, a new

supporter is always evolved, namely, nitrous gas: ammonia, a new combustible, is also usually formed; and, not unfrequently, the product is converted into a partial supporter.

No supporter can be produced by combustion, or No supporter can be process. As several of the supporters consist of oxygen combined with a base, it follows as a consequence, that oxygen may combine with a base without losing that ingredient, which occasions combustion. The act of combination of oxygen with combustion. The act of combination of oxygen with a base, therefore, is by no means the same with combustion. If we take a view of the different supporters, we shall find that all of them which can be obtained artificially, are procured either from other supporters, or by the agency of electricity.

Oxygen gas may be procured from nitric acid, and from several of the partial supporters, as the black oxide of manganese, the red oxides of lead and of mercury. The action of heat is always necessary; but the process is very different from combustion.

II. Als, as far as is known at present, cannot be formed artificially. The gas, indeed, which comes over during part of the usual distillation of nitrate of potassa and sulphuric acid, to obtain nitric acid, resembles air very closely. But it is obtained from a

supporter.

III. Nitracus oxide has hitherto been only pro-cured from nitrous gas and nitric acid, (in nitrate of ammonia,) both of which are supporters.

, NITROUS GAS can only be procured by the de-

IV, Nitraus gas can only be procured by the decomposition of nitric acid, a supporter.

V. Oxymuriatric acid, a supporter.

V. Oxymuriatric acid, or Chlorine, can be formed by the action of muriatic acid on the black oxide of manganese, the red oxides of lead, iron, or mercury; all of which are partial supporters.

VI. Nitrac acro is formed spontaneously upon the surface of the earth, by processes with which we are but imperfectly acquainted; but which certainly have no resemblance to combustion. Its oxygen is probably furnished by the air, which is a supporter; at least, it has been observed, that introgen and oxygen, at high temperatures, are capable of forming nitric acid.

This formation of nitric acid by means of electricity, has been considered as a combustion, but for what reason it is not easy to say: the substance acted upon is not a combustible with a supporter, but a supporter alone. Electricity is so far from being equivalent to combustion, that it sometimes acts in a manner

porter alone. Electricity is so far from being equiva-lent to combustion, that it sometimes acts in a manner diametrically opposite; unburning, if we may use the expression, a substance which has already undergone combustion, and converting a product into a combus-tible and a supporter. Thus it decomposes water, and converts it into oxygen and hydrogen gas; there-fore it must be capable of supplying the substances which the oxygen and combustible lose when they combine by combustion and form a product combine by combustion, and form a product.

Several of the supporters and partial supporters are capable of combining with combustibles, without undergoing decomposition, or exhibiting the phenomena of combustion. In this manner, the yellow oxide of gold combines with ammonia; the red oxide of mercury with oxalic acid; and oxymuriatic acid with ammonia. Thus also nitrate of potassa may be commonia. Thus also nitrate of potassa may be com-bined, or at least intimately mixed, with several combined, or at least intimately mixed, with several combustible bodies, as in gunpowder, fulminating powder, to all these compounds, the oxygen of the supsee. In all these compounds, the oxygen of the sup-porter and the combustible relain the ingredients which render them susceptible of combustion; hence the compound is still combustible. And in conse-quence of the intimate combination of the component parts, the least alteration is apt to destroy the equiliparts, the least aiteration is apt to destroy the equilibrium which subsists between them; the consequence is, combustion and the formation of a new compound. Hence these compounds burn with amazing facility, not only when heated, but when triturated, or struck smartly with a hammer. They have therefore received the name of detonating or fulminating bodies. Thus we have fulminating gold, fulminating increases, fulminating nowder. &c. fulminating powder, &cc.

Such are the properties of the combustibles, the supporters, and the products; and such the phenomena which they exhibit when made to act upon each

If we compare together the supporters and the products, we shall find that they resemble each other in many respects. Both of them contain oxygen, or other supporter, as an essential constituent part; both are

capable of converting combustibles into products; and Capable of converting combustibles into products; and several of both combine with combustibles and with additional doses of oxygen. But they driler from each other in their effects on combustibles. The former only produce combustion; whereas the products convert combustibles into products without combustion. Now, as the ultimate change produced upon combustibles by both these sets of bodies is the same, and as this substance which combining with the combustibles. Now, as the ultimate change produced upon combustibles by both these sets of bodies is the same, and as the substance which combines with the combustibles is in both cases the same, oxygen, for instance, we must conclude that this oxygen in the supporters contains something which the oxygen of the products wants, something which separates during the passage of the oxygen from the product to the combustible, and occasions the combustion, or emission of fire, which accompanies this passage. The oxygen of supporters then contains some ingredient which the oxygen of products wants. Many circumstances concur to render it probable that this ingredient is caloric. The combustibles and the products also resemble each other. Both of them contain the same or a similar base; both frequently combine with combustibles, and likewise with oxygen; but they differ essentially in the phenomena which accompany their combination with oxygen. In the one case, fire is emitted; in the other, not. If we, recollect that no substance but a combustibile is capable of restoring combustibility to the base of a product, and that at its

combustibility to the base of a product, and that at its doing so it always loses its own combustibility; and if we recollect farther, that the base of a product does not we reconcer tartner, that the base of a product does not exhibit the phenomena of combustion even when it combines with oxygen, we cannot avoid concluding, that all combustibles contain an ingredient which they lose when converted into products, and that this loss contributes to the fire which makes its appearance during the conversion. Many circumstances contribute to render it probable that this ingredient is light.

bute to render it probable that this ingredient is light. If we suppose that the oxygen of supporters contains caloric as an essential ingredient, and that light is a component part of all combustibles, the phenomen of combustion above enumerated, numerous and intricate as they are, admit of an easy and obvious explanation. The component parts of the oxygen of supporters are two; namely, 1. a base, 2. caloric. The component parts of combustibles are likewise two; namely, 1. a base, 2. light. During combustion, the base of the oxygen combines with the base of the combustible and forms the product; while, at the same bustible, and forms the product; while, at the same time, the caloric of the oxygen combines with the light of the combustible, and the compound files off in the form of fire. Thus combustion is a double decomposition: the oxygen and combustible divide themselves each into two portions, which combine in pairs; the one compound is the product, and the other the fire, which escapes.

Minco escapes.

Hence the reason that the oxygen of products is unfit for combustion. It wants its caloric. Hence the reason that combustion does not take place when oxygen combines with products, or with the base of supporters. These bodies contain no light. The caloric of the oxygen of course is not separated, and no fire appears. And this oxygen still retaining its caloric, is capable of producing combustion whenever a body is presented which contains light, and whose base has an affinity for oxygen. Hence also the reason why a combustible alone can restore combustibility to the base of a product. In all such cases, a double decomposition takes place. The oxygen of the product combines with the base of the combustible, while the light of the combustible combines with the base of the product.

But the application of this theory to all the different phenomena described above, is so obvious, that it is needless to give any more examples. Let us rather inquire, with the author, into the evidences which can be brought forward in its support.

be brought forward in its support.

As caloric and light are always emitted during combustion, it follows that they must have previously existed in the combustible, the supporter, or in both.

That the oxygen of the supporters contains either one or both of these substances, follows incontrovertibly from a fact already mentioned, namely, that the oxygen of products will not support combustion, while that of supporters will. Hence the oxygen of supporters must contain something which the oxygen of the products wants, and this something must be caloric, or light, or both. or light, or both.

That the oxygen of some of the supporter at least contains caloric, as an ingredient, has been proved, in a attifactory manner, by the experiments of Craw-ford, Lavoister, and La Piace. Thus the temperature of hot-blooded animals is maintained by the decompoof introduced authors is manufactured by the accomp-sition of air. Now, if the oxygen of one supporter contains caloric, the same ingredient must exist in the oxygen of every supporter, because all of them are obviously in the same state. Hence we conclude that the oxygen of every supporter contains caloric as an essential ingredient.

essential ingretient:

The light emitted during combustion must either proceed from the combustible or the supporter. That it proceeds from the combustible, must appear pretty obvious, if we recollect that the colour of the light emitted during combustion varies, and that this variation usually depends, not upon the supporter, but upon the combustible. Thus charcoal burns with a red flame, sulphur with a blue or violet, zinc with a greenish white, &c

The formation of combustibles in plants, obviously requires the presence and agency of light. The leaves of plants emit oxygen gas, when exposed to the sun's rays, but never in the shade, or in the dark.

Besides vegetation, we are acquainted with two Besides vegetation, we are acquainted with two other methods of unburning products, or of converting them into products and combustibles, by exposing them, in certain circumstances, to the agency of fire, or of electricity. The oxides of gold, mercury, &c. when heated to redness, are decomposed, oxygen gas is emitted, and the pure metal remains behind. In this case, the necessary caloric and light must be furnished by the fire; a circumstance which explains why such reductions always require a red heat. When carbonic acid is made to pass repeatedly over red hot charcoal, it combines with a portion of charcoal, and is con-It combines with a portion of charcoal, and is converted into gaseous oxide of carbon. If this gas be a combustible oxide, the base of the carbonic acid and its oxygen must have been supplied with light and caloric from the fire; but if it be a partial combustible, it is merely a compound of carbonic acid and charcoal: which of the two it is, remains still to be ascertained.

Electricity decomposes water, and converts it into oxygen gas and hydrogen gas; it must, therefore, supply the heat and the light which these bodies lost when converted into a product.

These facts, together with the exact correspondence of the theory given above with the phenomena of combustion, render it so probable, that Dr. Thompson has ventured to propose it as an additional step towards a full explanation of the theory of combustion. Every additional experiment has served to confirm it more and more. It even throws light upon the curious experiments of the accension of metals with sulphur, which succeed in vacuo, under mercury, in nitrogen

gas, &c.

Dr. Thompson has noticed, that the same emission of caloric and light, or of fire, takes place when melted sulphur is made to combine with potasea, or with lime, in a crucible or glass tube, and likewise when melted phosphorus is made to combine with lime heated to redness. He supposes that, in all probability, baytes and strontia exhibit the same phenomenon when combined with melted sulphur or phosphorus; and perhaps some of the metals when combined with phosphorus and perhaps some of the metals when combined with phosphorus.

The phenomena Dr. Thompson explains thus:—The sulphur and phosphorus are in the melted state, and therefore contain caloric as an ingredient; the alkalies, earths, and metals which produce the phenomenon nes, earths, and metals which produce the phenomenon in question, contain light as an essential ingredient. The sulphur, or phosphorus, combines with the base of the metal, earth, or alkali; while at the same time, the caloric, to which the sulphur or phosphorus owed its fluidity, combines with the light of the metal, earth, or alkali; and the compound flies off under the form

of fire.
Thus the process is exactly the same with combus-Thus the process is exactly the same with combustion, excepting as far as regards the product. The melted sulphur, or phosphorus, acts the part of the supporter, while the metal, earth, or alkali, occupies the place of the combustible. The first furnishes caloric, the second light, while the base of each combines together. Hence we see that the base of sulphurets and phosphurets resembles the base of products in being destitute of light; the formation of these bodies of the second support of these bodies. exhibiting the separation of fire like combustion, but exhibiting the beparation of the first combination, our the product differing from a product of combination in being destitute of oxygen, Dr. Thompson distinguishes the process by the title of semi-combination; indicating by the term, that it possesses one half of the charac-teristic marks of combustion, but is destitute of the other half.

The only part of this theory which requires proof is, that light is a component part of the earths and alkalies. But as potassa and lime are the only bodies of that nature, which we are certain to be capable of exhibiting the phenomena of semi-combustion, the proofs must of necessity be confined to them. That lime contains light as a component part, has been long known. Meyer and Polletier observed long ago, that when water is poured upon time, not only heat but light is emitted. Light is emitted also abundantly, when sulphuric acid is poured upon magnesia, or upon lime, potassa, or soda, freed from the water of crystallization. In all these cases, a semi-combustion takes The water and the acid being solidified, give

out caloric, while the lime or potassa gives out light.

That lime, during its burning, combines with light, and that light is a component part of lime, is demonstrated. strated by the following experiment, for which we are

indebted to Scheele

Fluor spar (fluate of lime) has the property of phosphorescing strongly when heated, but the experiment it has been once heated sufficiently, no subsequent heat will cause it to phosphorese. Now phosphores-cence is merely the emission of light; light of course is a component part of those merely the does not succeed twice with the same specimen. cence is merely the emission of light, right of course is a component part of fluor spar, and heat has the property of separating it. But the phosphorescing quality of the spar may be again recovered to it, or, which is the same thing, the light which the spar had lost may be restored by the following process:—

Decompose the fluate of lime by sulphuric acid, and preserve the fluoric acid separate. Boil the sulphate of lime thus formed, with a sufficient quantity of carbonate of soda; a double decomposition takes place Sulphate of soda remains in solution, and carbonate of lime precipitates. Ignite this precipitate in a crucible, till it is reduced to lime, and combine it with the fluoric acid to which it was formerly united. The fluor spar thus regenerated, phosphoresces as at first. Hence the lime, during its ignition, must have combined with

That potassa contains light, may be proved in the same manner as the existence of that body in lime Now, as potassa is deprived of its carbonic acid by lime, the Doctor supposes that the process must be a double decomposition; namely, that the base of the lime combines with carbonic acid, while its light com-

bines with the potassa.

These remarks on semi-combustion might easily be much enlarged upon: for it is obvious, that whenever a liquid combines with a solid containing light, and the product is a solid body, something analogous to

cemi-combustion-must take place.

COMEDO. (From comedo, a glutton.) The comedones of old writers are a sort of worm which eats into the skin and devours the flesh.

not use skin and devours the flesh.

COMFREY. See Nymphytum.

CoM str. The quin-arabic.

CoM str. The epilepsy. This name arose from the frequency of persons being seized with this disorder, while in the assemblies called Comitia.

Comitissa. A countess. Some preparations are distinguished by this name; as Pulvis Comitissa de Cantia, the Countess of Kent's powder. Also the Cinchona was called Pulvis Comitissa.

COMMAGE NUM. (From Commagene, a place in Syria, whence it was brought.) Syrian ointment, mentioned

by Galer COMMANDUCA'TIO. (From commanduco, to eat.) The act of mastication, or chewing.

COMMA'NSUM. (From commando, to eat.) A medicine put into the mouth and chewed,

to promote a discharge of phlegm, or saliva.

Commendato Ruis. (From commendo, to recommend.) An epithet of the traumatic balsam. tinctura Benzoes composita, from its singular virtues and use-

Co'Mm. Gum. When alone it signifies gumarabic. The κομμι λευκού, mentioned by Hippocrates in his De Morb. Mulieb., is gum-arabic.

COMMISSU'RA. (From committe, to join together.) A suture, juncture, or joint. A term applied in anatomy to the corners of the lips, where they meet together; and also to certain parts of the brain which

go across and join one hemisphere to the other.

COMMISSURA ANTERIOR CEREBRI. The white nervelike substance which crosses the anterior part of the third ventricle of the brain, immediately above the infundibulum, and between the anterior crura of the formix; uniting one hemisphere of the brain with the

COMMISSURA MAGNA CEREBRI. The corpus callo-sum of the brain is so termed by some writers.

Commission Posterior Cereari. A white nerve-like substance, which passes from one hemisphere of the brain across to the other, immediately over the opening of the aqueduct of Sylvius, in the posterior part of the third ventricle of the brain, and above the corpora quadrigemina.

(From communico, to make par-COMMUNICASE. (From communico, to make par-take.) A term applied by Bellini, to fevers of two kinds afflicting the same person, wherein as one goes off the other immediately succeeds. COMPA'GES. (From compingo, to put together.) A suture, or joint. A commissure. COMPA'RATIVE. That which illustrates by com-

paring with the human body: applied to anatomy and

physiology. See Anatomy. Сомрева. See Piper Cu See Piper Cubeba.

Complete Flower. See Flos.
Completion. A term used by the ancient writers

in various acceptations; but latterly it signifies only the same as Plethora.

COMPLE'XUS. (From complector, to comprise.)
Complexus seu biventer cervicus of Albimus. Dorso
trachelon occipital of Dumas. A muscle situated on the back part of the neck, that draws the head backwards, and to one side: and when both act, they draw wards, and to one side: and when both act, they draw the head directly backward. It arises from the trans-verse processes of the seven superior vertebra of the back, and four inferior of the neck, by as many dis-tinct tendinous origins, in its ascent, it receives a fleshy slip from the spinous process of the first verte-bra of the back. from these different origins it runs upwards, and is every where intermixed with tendinous fibres. It is inserted, tendinous and fleshy, into the inferior edge of the protuberance in the middle of the os occipitis, and into a part of the curved line that runs forwards from that protuberance. It draws the

need backwards.

COMPOSITUS. Compound. The result or effect of a composition of different things; or that which arises from them. It stands opposed to simple. In botany, applied to leaves and flowers. See Flas, and

COMPOUND. See Compositus.

Compound affinity. COMPRE'SSION. See Attraction. Compound againty. See Attraction.

COMPRESSION. (Compressio; from comprime, to press together.) A discased state of the body, or of a part, the effect of something pressing upon it. The term is generally applied to the brain. Compression of the brain should be distinguished from concussion and inflammation. When the brain is compressed either by bone, extravasated, blood, or any other fluid, there is a concept invanishing. etther by bone, extravassateu mood, or any other natural there is a general insensibility, the eyes are half open, the pupils dilated and motionless, even when a candle is brought near the eye; the retina is insensibile; the limbs relaxed; the breathing stertorous; the pulse slow, and, according to Abernethy, less subject to internission than in cases of concussion. Nor is the patient ever sick, when the pressure on the brain, and the general insensibility, are considerable; for the very action of vomiting betrays an irritability in the

very action of vointifing between an irricasiny in one stomatch and oscophagus.

COMPRE SSOR. (Compressor; from comprime, to press together.) A name applied to those muscles which press together the parts on which they act. Costrensson varies. Renews yel nasalis of Doug. las. Transversalis vel myretiformic of Winslow. Di-

las. Transversatis vel injectjorans of Winslow. Di-intures alurum nass of Cowpier; and Maxillo narenal of Dumas. A inuscle of the nose, that compresses the ake towards the septium nass, particularly when we want to smell acutely. It also corrugates the nose, and assists in expressing certain passions. It arises, by a narrow beginning, from the root of the ala nasi exter-nally, and spreads into a number of thin, separate

abres, which run up along the cartilage in an oblique manner towards the back of the nose, where it joins with its fellow, and is inserted into the narrow extremity of the os nasi, and nasal process of the superior maxillary bone. COMPRESSUS.

Compressed; flattened laterally;

applied to leaves. See Leaf.

COMPTONITE. A new mineral first brought into this country by Lord Compton, and found in drusy cavities, in ejected masses, on Mount Vesuvius.

Compu'nectio. (From compango, to prick.) A punc-

Lure

CONA'RIUM. (From κωνος: so named from its conical shape.) A cone. See Pineal gland.
Concau'aa. (From con, with, and causa, a cause.) A cause which co-operates with another in the pro-

duction of a disease.

CONCAVUS. Hollow; depressed in the middle.
Applied to leaves, petals, &c. depressed in their centre, owing, as it were, to a tightness in some part of the circumference; as in Cyamus nelumbo, and the petals of the Galanthus nivalus.

CONCENTRATION. (Concentratio; from con, and centrum, a centre.) The volatilizing of part of and centrum, a centre.) The volatilizing of part of the water of fluids, in order to improve their strength. The matter to be concentrated, therefore, must be of superior fixity to water. This operation is performed on some acuts, particularly the sulphuric and phosphoric. It is also employed in solutions of alkalies and neutral salts

CONCENTRIO. Bulbus concentricus. tric bulb, is one of the laminated kind, well illustrated

the bulb, is one of the laminated kind, well industrated in the common onion, Mlum repa.

CONCEPTACULUM. A former name for what is now ealled in botany receptaculum.

CONCE PTION. (Conceptio; from concipio, to conceive.) The impregnation of the ovulum in the female ovarium, by the subtile prolific aura of the zemen virile. In order to have a fruitful coition, it is necessary that the semen be propelled into the uterus, or vagina, so that its fecundating vapour shall be conveved through the Fallopian tube to the ovarium: it is also necessary that there be a certain state of the ovarium of the female in order to impregnate it; which is, that the ovum shall be mature, and embraced by the fimbrize of the Fallopian tube, to convey that vivi-fying principle to the ovum. See Generation. CONCHA. (Concha, κογχη, a liquid measure

CONCHA. (Concha, royzy), a liquid measure among the Athenians.) A term applied by anatomists to several parts of the body; as the hollow of the ear, the spongy bones of the nose, &c. CONCHA ACRICULE. See Auricula.

CONCHA ACRICULE. See Auricula.
CONCHA AURIS. The hollow part of the cartilage of

the outer ear. The shell from which

CONCHA MARGARITIFERA.

pearls are obtained. See Margarita.
Concie narium. The turbinated portion of the ethnicid bone, and the inferior spongy bones of the nose, which are covered by the Schneiderian mem-

brane, are so termed. CO'NCHUS. (From  $\kappa \sigma \gamma \chi \eta$ , a shell; so named from their likeness to a shell.). The cranium, and the cavity

[CONCHOLITE. See Organic relics.]
CONCIDENS. (From concide, to decay.) 1. A decrease of bulk in the whole or any part of the body.

A diminution of a tumour.

CONCOAGULA'TIO. (From con, and coagulo, to coagulate together.) The coagulation or crystallization of different salts, first dissolved together in the same fluid.

CONCO'CTIO. (From concoquo, to digest.) 1. Concoction; digestion. This term was formerly very generally used to express that operation of nature upon norbid matter which renders it fit to be separated 2. The alteration which the food undergoes in the

prime viæ.

CONCREMA'TIO. (From con, and cremo, to burn together.) Calcination. CONCRE'TION. (Concretio; from concresco, to

grow together.)

1. The condensation of any fluid substance into a more solid consistence.

2. The growing together of parts which, in a natu-

ral state, are separate.

CONCU'RSUS. (From concurro, to meet together.)

CONCURSUS. (From concurro, to meet together.) The congeries or collection of symptoms which constitute and distinguish the particular disease.

CONCUESTON. (From concutro, to shake together.) Concussion of the brain. Various alarming symptoms, followed sometimes by the most fatal consequences, are found to attend great violence offered to the head; and upon the strictest examination, both of the living and the dead, neither fissure, fracture, nor extravasation of any kind can be discovered. The same symptoms and the same events are met with, when the head has received no injury at all ab externo, when the head has received its injury at all the com-but has only been violently shaken; nay, when only the body, or general frame, has seemed to have sus-tained the violence. The symptoms attending a contamed the violence. The symptoms attending a con-cussion, are generally in proportion to the degree of violence which the brain itself has sustained, and which indeed, is comizable only by the symptoms. If the concussion be very great, all sense and power of motion are immediately abolished, and death follows soon; but between this degree and that slight confusion (or stunning, as it is called,) which attends most violences done to the head, there are many shades. The following is Abernethy's description of the symptoms of concussion, which he is of opinion, may be divided into three stages

The first is that state of insensibility and derangement of the bodily powers which immediately succeeds the accident. While it lasts, the patient scarcely feels any injury that may be inflicted on himbreathing is difficult, but in general without stertor; breating is difficult, but in general without sterior; his pulse intermitting, and his extremities cold. But such a state cannot last long; it goes off gradually, and is succeeded by another, which is considered as the second stage of concussion. In this, the pulse and respiration become better, and, though not regularly performed, are sufficient to maintain life, and to diffuse warmth over the extreme parts of the hady. The feeling of the patient is now so far restored, that he is exercible of his skirt have remedied, but he is stand sensible of his skin being pinched; but he lies stupid and inattentive to slight external impressions. As the and inattentive to sight extends impressions. As the effects of concussion diminish, he becomes capable of replying to questions put to him in a loud tone of voice/especially when they refer to his chief suffering at the time, as pain in the head, &c.; otherwise he answers incoherently, and as if his attention was occupied by something else. As long as the stupor remains, the inflammation of the brain seems to be moderate, but as the former abates, the later subjects. moderate; but as the former abates, the latter seldom fails to increase; and this constitutes the third stage, which is the most important of the series of effects proceeding from a concussion.

These several stages vary considerably in their de-gree and duration; but more or less of each will be found to take place in every instance where the brain has been violently shaken. Whether they bear any certain proportion to each other or not, is not known; indeed, this will depend upon such a variety of circumstances in the constitution, the injury, and the after treatment, that it must be difficult to determine.

treatment, that it must be difficult to determine.

To distinguish between an extravasation and a concussion by the symptoms only, Mr. Potts says, is frequently a very difficult matter; sometimes an impossible one. The similarity of the effects, in some cases, and the very small space of time which may intervene between the going off of the one and accession of the other, render this a very nice exercise of the judgment. The first stunning or deprivation of sense, whether total or partial, may be from either, and no man can which the which the when these first symptoms have tell from which; but when these first symptoms have been removed, or have spontaneously disappeared, if such patient is again oppressed with drowsiness, or stupidity, or total or partial loss of sense, it then be-comes probable that the first complaints were from comes probable that the mai companies were from concussion, and that the latter are from extravasation; and the greater the distance of time between the two, the greater is the probability not only that an extrava-sation is the cause, but that the extravasation is of the limpid kind, made gradatim, and within the beginning the control of the contro

Whoever seriously reflects on the nature of these two causes of evil within the cranium, and considers them as liable to frequent combination in the same subject, and at the same time considers that, in many instances, no degree of information can be obtained from the only person capable of giving it, (the patient) from the only person capable of giving it, (the patient) will immediately be sensible how very difficult a part

a practitioner has to act in many of these cases, and how very unjust it must be to call that ignorance which is only a just diffidence arising from the obscu-rity of the subject, and the impossibility of attaining

rity of the subject, and the impossibility of attaining materials to form a clear judgment.

Abernethy observes, that in cases of simple concussion, the insensibility is not so great, as where compression exists, the pupils are more contracted, the muscles less relaxed, little or no sterfor attends, but the pulse is very intermitting, and in slight cases there is often considerable sickness.

is often considerable sirkness.

Very different modes of treating these accidents have been practised, and no doubt the same means should not be pursued indiscriminately. Much must depend on the state of the patient, when he received the injury, the degree of this, the time which has elapsed since, and other circumstances. Abernethy considers, that in the first stage little should be done; that the stimulants often employed may be even injurious; but more especially so in the second stage, increasing the tendency to inflammation; and where this has come on, that the antiphlogistic plan must be actively pursued. However, a moderate abstraction of blood, general or topical, will be commonly proper at first, where the habit will allow it, as congestion may be suspected, and to obviate inflammation, especially where the person was intoxicated at the time of cially where the person was intoxicated at the time of the accident; and the effect of this measure may influ-ence the subsequent treatment. If the pulse rose after It, and the patient became more sensible, we should be ence the subsequent treatment. If the pluse rose after It, and the patient became more sensible, we should be led to pursue the evacuating plan, taking perhaps more blood, exhibiting active catharties, as the bowels will be found very torpid, applying cold lotions to the head, &c. These means, however, will be especially called for, when marks of inflammation appear. Sometimes brisk emerics have been very beneficial, as sulphate of zinc, &c.: they are particularly recommended, where the person was under the influence of anger; or the stomach full, when the accident happened; but they are liable to objection, where there are marks of congestion, or increased action in the vessels of the head. If bleeding should lower the pulse, and render the patient worse, evacuations must not be pursued; it may be better generally to wait the gradual return of sensibility, unless the torpor be alarming, like a state of syncope: in which case, or if it continue very long, stimulants appear justified, as ammonia, or others of transient operation, with a blister to the head, to restore some degree of sensibility. If, in the sequel, marks of irritation appear, as spassins or convulsions, opium joined with antimouy, or in the form of Dover's nowder, will probably be useful, the or convulsions, opium joined with antimony, or in the form of Dover's powder, will probably be useful, the necessary evacuations being premised, and the warm bath. In all cases the head should be kept quiet; as the patient is convalescent, tonics, and the shower-bath may be employed with advantage; and it will be particularly necessary to avoid great hodily exertion, stimulating liquors, &c. Should paralytic symptoms remain, stimulants, general or local, may be required. Where ataming symptoms follow an injury to the head, extravasation may be suspected and the operation of trepanning, skilfully performed, will do no harm to the patient, but may materially relieve, even by the loss of blood attending.

CONDENSATION. (Condensatio; from condenso, to make thick.) A thickening of any fluid.

CONDINE'NTUM. (From conduce, to preserve, or session.) A condiment, preserve, or sweetmeat.

Conductions, it is as a spasm, or convulsion, drawing the muscles out of their proper positions.

CONDIC'CTIOR. (From conduce, to lead, or guide, a surgical instrument, the use of which is to direct the knife in certain operations. It is more commonly called a director.

CONDUCTATUS. Folded. Applied to Jeaves, when the magnificent and choused data to make the surpose. necessary evacuations being premised, and the warm bath. In all cases the head should be kept quiet; as

called a director.

CONDUPLICATUS. Folded. Applied to Jeaves, when the margins are clapped flatly together: as in Roscaa purpurca, and the bases of sword-shaped leaves. See Leaft.

CONDYLE. (Condylus; from κονέυ, an aucient cup, shaped like a joint.) be from minence of bone in any of the joint.

CONDYLO'MA. (Condyluma, atis. n.: from κονέυλος, a tubercle, or knot.) A soft, wart-like excrescence, that appears about the anus and pudendum of both sexes. There are several species of condylomata, which have received names from their appearator.

ances; as ficus, crysta, thymus, from their resemblance to a fig. &c.
CONE. See Strainlus.

CONE. See Nevantus.

CONETON. (From xoway, to turn round.) In Hippocrates it imports hemiock. It is said to be thus named, because it produces a vertigo in those who take it inwardly. See Conium.

CONE'SSI CORTEX. See Nerium antidysenteri-

CONFECTION. (Confectio, onto. f.; from conficio, to make up.) A confection. In general, it means any thing made up with sugar. The term, in the new London Pharmacoporia, includes those articles which were formerly called electuaries and conserves, between which there do not appear to be suffi-

serves, between which there do not appear to be sufficient grounds to make a distinction.

"Confections are soft solids, in the composition of which sugar forms a principal article. The term includes what have been called conserves, made from recent vegetable substances, beaten with sugar as a preservative; and electuaries, which were formed of dry powders, &c. brought to a proper consistence with syrup, either to tacilitate their deglution, or to conceal their taste."—Big. Mat. Med.

The Pharmacopara of the United States has the following: "Confectio aromatica, Confectio arrantis cortices, Confectio cassias, Confectio rosa, Confectio scammonic, Confecto seema.

Confectio Anno Dallarum. Confection of almonds.

Take of svect almonds, an ounce; Acacia gum pow-

CONFECTIO ANGEDATATUM. COINCECIDED amongs. Take of sweet almonds, an ounce; Acacia gum powdered, a drachm; refined sugar, half an ounce. The almonds having been previously macerated in water and their external coat removed, beat the whole to gether, until they are thoroughly incorporated. If has been objected to the almond mixture, which is an article of very general use, that it requires considerable time for its extemporaneous preparation, and that it spoils, and cannot be kept when it is made. This will be obviated by the present form, which does keep for a sufficient length of time, and rubs down into the mixture immediately.

CONFECTIO AROMATICA. This preparation was formerly called Confectio cardiaca. Confectio Raleighana. Take of cinnamon bark, nutmegs, of each two ana. Take of emmanon bark, nulmers, of each two ounces; cloves, an onnee; cardamon seeds, half an ounce; saffron dried, two ounces; prepared shells, sixteen ounces; refined sugar powdered, two pounds; water, a pint. Reduce the dry substances, mixed together, to very fine powder; then add the water gradually, and mix the whole, until it is incorporated. This preparation is now much samplified by the London college. It is an excellent medicine, possessing stimulant, antispasmodic, and adstringent virtues: and is exhibited with these views to children and adults, in a vast variety of diseases, mixed with other medi-cines. It may be given in doses of 10 gr. to a

drachin.

Conserva corticis exterioris auranti hispatensis. Conserva favedinus corticum auranti hispatensis. Conserva favedinus corticum aurantiorum. Take of fresh external rind of oranges, separated by rasping, a pound; refined sugar, three pounds. Bruise the rind with a wooden pestle, in commentar, thou after additud the sugar bention. three pounds. Brilse the rind with a wooden pestle, in a stone nortar; then, after adding the sugar, bruise it again, until the whole is thoroughly incorporated. This is well calculated to form the basis of a tonic and stomachic confection, and may be given alone in doses of from two to five drachms, twice or three times a day.

Confectio cardiaca. See Confectio aromatica. Confectio cassix. Electuarum cassix. Electurium e cassia. Confection of cassia. Take of fresh arium e cassin. arrium c cassin. Confection of cassia. Take of fresh cassia pulp, half a pound; manna, two ounces; tamarind pulp, an ounce; syrup of roses, half a pint. Bruise the manna; melt it in the syrup by a waterbath; then mix in the pulps, and ewaporate down to a proper consistence. This is a very elegant, pleasant, and mild apecient for the feeble, and for children. Dose from two diachurs to an ounce.

Dose from two drachms to an ounce.

CONFECTIO ONL. Confectio opiata. Philonium
Londinense. Philonium Romanum. Confection of
opium. Take of hard opium powdered, six drachms;
long pepper, an ounce: ginger root, two onness: caraway-seeds, three ounces; syrup, a pint. Rubtogether
the opium and the syrup previously heated; then add
the remaining articles reduced to powder, and mix.
To the credit of modern pharmacy, this is the only one
that remains of all those complicated and confused

preparations called mithridate, theriaca, &cc.; it more nearly approximates, in its composition, the philonium than any other, and may be considered as an effectual than any other, and may be considered as an encoura-substitute for them in practice. This very warm and atimulating confection is admirably calculated to re-lieve diarrhea, or spasms of the stomach and bowels, and is frequently ordered in doses of from 10 grs. to half a drachin. About 36 grains contain one of

opium.

Confection fiperis night. Confection of black pepper. Take of black pepper; elecampane, of each a pound; femnel seeds, three pounds; honey; refined sugar, of each two pounds. Rub the dry ingredients together, so as to reduce them to a very fine powder; then, having added the honey, rub them gain, so that the whole may incorporate. This confection is given the whole may incorporate. This confection is giver internally against a relaxed condition of the extremity of the rectum, producing partial prolapse, and against that piley state which results from weakness. A similar compound has been long celebrated and sold

under the name of Ward's paste.

similar compound under the name of Ward's paste.

Confectio Rosæ Caninæ. Conserva cynasbati.

Conserva fructus cynasbati. Conserva of hips. Confection of dog-rose. Take of dog-rose pubp, a pound;

action of dog-rose. Take of dog-rose pubp, a pound;

multiple paste. fection of dog-rose. Take of dog-rose pulp, a pound; refined sugar powdered, twenty ounces. Expose the pulp in a water bath to a gentle heat; then add the sugar gradually, and rub them together until they are thoroughly incorporated. This preparation is cooling and adstringent: it is seldom given alone, but mostly joined to some other medicine, in the form of linctus, or electuary.

or electuary.

Conserva rosarum rubrarum. Conserva rosa. Conserva rosarum rubrarum. Conserve of red rose.

Take of the petals of the redrose, before it is expanded, and without the claws, a pound; refined sugar, three pounds. Bruise the petals in a stone mortar; then, having added the sugar, beat them again together, until they are thoroughly incorporated. This is an excellent sub-astringent composition. Rubbed down with rester is former an excellent drink with some laware. water, it forms an excellent drink, with some lemon juice, in hæmorrhagic complaints; it may also be given with vitriolated zinc, in the form of an electuary.

CONFECTIORUTM. Electuarium chaccis lauri. Confection of rue. Take of rue leaves dried, caraway seeds, bay-berries, of each an ounce and a half; saga-Seeds, bay-betrie, or each an ounce and a harr, sagar penum, half an ounce; black pepper, two drachins; clarified honey, sixteen ounces. Rub the dry articles together, into a very fine powder; then add the honey, and mix the whole. Its use is confined to clysters.

CONFECTIO SCAMMONE E. Electuarium scammonii. Electuarium e scammonio. Electuarium caryocosti-Electuarium e scammonio. Electuarium e scammonio. Electuarium cargocosti-num. Confection of scammony. Take of scammony gum resin powdered, an ounce and a half; cloves bruised, ginger root powdered, of each, six drachms; oil of caraway, half a drachm: syrup of roses, as much as is sufficient. Rub the dry articles together, into very fine powder; next rub them again while the syrup is gradually added; then add the oil of caraway, and mix the whole well together. This is a strong stimulating cathartic, and calculated to remove worms from the primæ viæ, with which view it is mostly exhibited. Dose from 3 se. to 3 j.

CONFECTIO SENNE. Electuarium senne. Electuarium lenitivum. Confection of senna. Take of senna drium tentituum. Confection of senna. Take of senna leaves, eight ounces; figs, a pound; tamarind pulp, pulp of prunes, cassia pulp, of each half a pound; coriander seeds, four ounces; liquorice root, three ounces; refined sugar, two pounds and a half. Powder the senna leaves with the coriander seeds, and separate, by sifting ten ounces of the mixed powder. Boil the remainder with the figs and the liquorice-root, in four pints of water, until it be reduced to half; then press out and strain the liquor. Evaporate the liquor, until a pint and a half only remains of the whole; then add the sugar, to make syrup. Lastly, mix the pulps gradually with the syrup, and, having added the eitted powder, mix the whole together. This is a mild and elegant aperient, well adapted for pregnant women, and those whose bowels are easily moved. ose, 3 ss. 3 ss. CONFERTUS.

Clustered, or crowded together:

applied to leaves. See Leaf.
CONFERVA. (From confervea, to knit together.)
The name of a genus of plants in the Linnwan system. Class, Cryptog amia; Order, Alga.
2. A kind of moss named from its use formerly in basing better bears.

healing broken bones.

CONFERVA HELMINTHOCORTOS. See Corallina cor

CONFERVA RIVALIS. This plant, Conferva; fila-mentis simplicissimus oqualibus longussimus, of Lin-nuus, has been recommended in cases of spasmodic

naus, has been recommended in cases of spasmodic asthma, phthisis, &c. on account of the great quantity of vital air it contains.

CONFIRMANTIA. (From con, and firmo, to strengthen.) I. Restoratives.

2. Medicines which fasten the teeth in their sockets. CONFILUENT. Running together. Applied to eruptions. See Variota.

CONFLUENT Much used by Hippocrates, and his interpreter Galen, from a notion that parts at a distance have mutual consent with one another, and that they are all perspirable by many subject streams. that they are all perspirable by many subtle streams.

Paracelsus, according to his way, expressed the former

by confederation.

CONFORMA'TIO. (From conformo, to shape or fashion.) Conformation. The natural shape and

form of any part.

CONFORTA NTIA (From conforto, to strengthen.

CONFORTA NYLL. (From tongorto, to strengthen. Cordial and strengthening medicines.

Confortativa. The same.

Confortativa. (From confoundo, to mix together.) A confusion, or disorder in the eyes, proceeding from a rupture of the membranes, which include the humours, by which means they are all confounded to-

CONGELA'TI. (From congelo, to freeze.) Congelatici. Persons afflicted with a catalepsy are so called, by which all sensation seems to be taken away.

CONGELATION. (Congelatic; from congelo, to freeze.) That change of liquid bodies which takes place when they pass to a solid state, by losing the caloric which kept them in a state of fluidity.

Congelati'va. (From congelo, to congeal.) Medicines that inspissate humours, and stop fluxions and

rheums.

CO'NGENER. (From con, and genus, kind.) Of
the same kind; concurring in the same action. It is
usually said of the muscles.

CONGE'STION. (From congero, to amass.) A
collection of blood or other fluid; thus we say a congestion of blood in the vessels, when they are over dis-

gestion of blood in the vessels, when they are over dis-tended, and the motion is slow.

CONGLOBATE. Conglobatus; from congloba, to gather into a ball.) I. A term applied to a gland, Glandula conglobata, which is formed of a contortion of lymphatic vessels, connected together by cellular structure, having neither a cavity nor any excretory duct: such are the mesenteric, inguinal, axillary glands, &c. See Gland. glands, &cc.

gianus, &c. See Gland.
2. A conglobate flower, is a compound one growing in the form of a sphere or globe.
CONGLOMERATE. (Conglomeratus; from conglomero, to heap upon one.) I. Applied to a gland, Gland.ida conglomerata, which consists of a number of smaller showers a gland, the expectant district. of smaller glomerate glands, the excretory ducts of which all unite into one common duct: such are the salival, parotid glands, &c.

2. Conglomerate flowers, are such as are heaped to-

gether on a footstalk, to which they are irregularly, but closely connected. See Panicula.

CONGLOMERITE. A compound mineral mass, in which angular fragments of rocks are imbedded. The Italian term breachin, has the same meaning. In pudding stone, the imbedded fragments are round, bearing the marks of having been polished by attrition. CONGLUTIN 4'NTIA. (From conglutino, to glue together.) Heating medicines; and such as unite parts

disjoined by accident.

Applied to leaves, nectaries, CONICUS. Conical. receptacles, &c .- Nectarium conicum, in the Utricularia foliosa, and the receptacle of the daisy, Anthemis

arcensis, cotala, and Alutricaria chamomilla.
CONIFERE. Cone-bearing plants. The name of an order in Linnaus's Fragments of a Natural Me-

CO'NIS. Kovis. Dust; fine powder; ashes; a nit in the hair; scuri from the head; and sometimes it

in the hair, signifies lime.

Signifies lime.

1. An ash or greenish-gray coloured minor and are likely as a supposure to air. It is neral, which becomes brown on exposure to air. It is

found in Saxony and Iceland.

Dr. Maccullock has given this name to a pulverulent mineral, as fusible as glass into a transparent bead, which he found in the trap hills of Kilpatrick, and the

[3. The petrifaction of a conus. See Organic re-

CONTUM. ' (From Kovia, dust, according to Linnæus; or from kovaa, dust, according to Lineaus; or from kovaa, circumage, on account of its inebriating and poisonous quality.) Hempek.

1. The name of a genus of plants in the Linnæan system. Class, Pentandria; Order, Digynia.

2. The pharmacopecial name of the officinal hem-

2. The pharmacopetar mans of the continuous case Conium maculatum.

Conium Maculatum. The systematic name for the conium Maculatum. cicuta of the pharmacopeias. It is called by some camaran; by others abiotos; and, according to Brotian, cambeion is an old Sicilian word for cicuta. Cicuta major fætida. Conium-seminibus striatis, of

Hemlock is found in every part of England, and is distinguished from those plants which bear some resemblance to it, by the spotted stem. It is generally believed to be a very active poison. In a very mode rate dose it is apt to occasion sickness and vertigo; in a larger quantity it produces anxiety, cardialgia, vomiting, convulsions, coma, and death. Baron Stoerk was ing, convulsions, coma, and death. Baron Stoerk was the first who brought hemlock into repute as a medicine of extraordinary efficacy: and although we have not in this country any direct facts, like those mentioned by Stoerk, proving that invoterate scirrhuses, cancers, ulcers, and many other diseases hitherto deemed irremediable, are to be completely cured by the cicuia; we have however the testimonies of several eminent physicians, showing that some complaints which had resisted other powerful remedies, yielded to hemlock; and that even some disorders, which if not really cancerous, were at least suspected to be of that ing, convulsions, coma, and death. really cancerous, were at least suspected to be of that tendency, were greatly benefited by this remedy. In chronic rheumatisms, some glandular swellings, and in various fixed and periodical pains, the cicuta is now very generally employed; and from daily experience, it appears in such cases to be a very efficacious remedy. It has also been of singular use in the hooping-cough. Nor is it less efficacious when applied externally; a poultice made of oatmeal and the expressed juice, (or a decoction of the extract, when the other cannot be obtained,) allays the most excruciating torturing pains of a cancer, and thus gives rest to the distracted patient

The proper method of administering conium inter-nally, is to begin with a few grams of the powder or inspissated juice, and gradually to increase the dose until a giddiness affects the head, a motion is felt in the eyes as if pressed outwards, with a slight sickness and trembling agitation of the body. One or more of these symptoms are the evidence of a full dose, which should be continued until they have ceased, and then after a few days the dose may be increased; for little advantage can be expected but by a continuance of the greatest quantity the patient can bear. In some constitutions even small doses greatly offend, occasioning spasms, heat and thirst; in such instances it will be of no service. As the powder of the dried leaves has been thought to act, and may be depended upon with more certainty than the extract, the following direction more certainty than the extract, the following direction should be observed in the preparation:—Gather the plant about the end of June, when it is in flower; piek off the little leaves, and throw away the leaf-stakes: dry the small selected leaves in a hot sun, or in a tin or pewter dish before the fire. Preserve them in bags made of strong brown paper, or powder them and keep the powder in glass phials where the light is excluded; for hight dissipates the beautiful green colour very soon, and thus the medicine loses its appearance if not interficacy: this mode is recommended by lour very soon, and thus the medicine loses its appearance, if not its efficacy: this mode is recommended by Dr. Withering. The extract should also be made of the plant gathered at this period. From 2 to 30 grains of the powder may be taken twice or thrice a day. CONJUGATUS. Conjugate or yoked: applied to leaves, which are said to be conjugate or binate. They consist of one pair of leaflets; as in the Mimosa. CONJUNCTIVA. Membrana conjunctiva. The

conjunctive membrane of the eye; a thin, transparent, delicate membrane, that lines the internal superficies of one eyelid, and is reflected from thence over the anterior part of the bull, then reflected again to the edge of the other eyelid. That portion which covers the transparent cornea cannot, without much difficulty, be separated from it. Inflammation of this membrane is called ophthalmis.

CONJUNCTUS. Conjoined. A botanical term applied to a tuber which is said to be conjoined when in immediate contact with another, as in many of the

CONNA'TUS. (From con, and nascor, to grow together.) 1. Born with a person; the same with con-

2. In botany it is applied to leaves, which are said to be connate when united at their base; as in Chlora perfoliata.
CONNEXION. See Articulation.

CONNIVENS. (From consistent to make as if he did not see.) In botany applied to petals of flowers, as in those of the Rumer, and to the receptacle of the fig, which the fruit really is, being a fleshy counivent. receptacle, enclosing and hiding the florets.

Connutrat'Tus. (From con, and nutrior, to be

CONNUTRITUS. (From con, and nutrior, to be nourished with.) It is what becomes habitual to a person from his particular nourishment, or what breaks out into a disease in process of time, which gradually had its foundation in the first aliments, as from sucking a distempered nurse, or the like.

From sucking a distempered nurse, or the like.
Conquassation. In pharmacy it is a species of comminution, or an operation by which moist concrete substances, as recent vegetables, fruits, the softer parts of animals, &c. are agitated and bruised, till, partly by their proper succulence, or by the affusion of some liquor, they are reduced to a soft

pulp. CONRI'NGIUS, HERMAN, was born at Norden, in East Friesland, 1606, and graduated in medicine at Helmstat, where he soon after became professor in Helmstat, where he soon after became professor in that science, and subsequently in physics, law, and politics. He was also made physician and aulic counsellor to the Queen of Sweden, the King of Denmark, and several of the German princes. He wrote numerous works in philosophy, medicine, and history, displaying great learning, and long highly esteemed. In one treatise he refers the degeneracy of the modern Germans to their altered mode of living, the use of stoves, tobacco, &c. He published also an "Introduction to the whole Art of Medicine, and its several Parts," containing a History of Bibliotheca Medica, with numerous Dissertations on particular Diseases. He died in 1681. He died in 1681.

CONSENT Consent of parts. See Sympathy. CONSENT. Consent of parts. See Sympathy. CONSE'RVA. (From conservo, to keep.) A control. A composition of some recent vegetable and CONSERVA. (From conservo, to Keep.) A conserve. A composition of some recent vegetable and sugar, beat together into a uniform mass of the consistence of honey; as conserve of hips, orange peel, &c. Conserves are called confections in the last edition of the Lundon Pharmacoposia. See Confectio.

CONSERVA ABSINYHHI MARTIMI. See Artemisia

maritima.

CONSERVA ARI. This is occasionally exhibited as a stimulant and diuretic. See Arum maculatum

CONSERVA AURANTII HISPALENSIS. See Confectio aurantiorum.

CONSERVA CYNOSBATI. See Confectio rosa canina. CONSERVA LUJULA. A preparation of woodsorrel, possessing acid, cooling, and antiseptic qualities. See Ozalis acetosetta.

Oxalis acctosella.

CONSERVA MENTHE. This preparation of mint is given occasionally as a stomachic, in sickness and weakness of the stomach. See Mentha viridis.

CONSERVA PRUNI SYLVEETRIS. Astringent virtues are ascribed to this medicine, which is now seldom

used but in private formulæ.

Conserva Ross. This conserve, rubbed down with water, to which is added some lemon-juice, forms an excellent drink in hæmorrhagic complaints. See Confectio rosæ gallicæ.
Conserva scillæ.

A preparation of squills, which

CONSERVA SCILLE. A preparation of squills, which affords an excellent basis for an electuary, possessing expectorant and diuretic qualities.

[CONSERVATIVES. See Organic relics. A.]

CONSERVATIVES. (From consiste, to abide.) The state or acme of a disease. The appearance or state

of the humours and excrements.

of the humburs and extensions.

CONSO'LIDA. (So called, quia consolidandi et
conglutinandi vi pollet; from its power in agglutinating and joining together things broken.) See Symphytum.

CONSOLIDA AUREA. See Solidago virga aurea. CONSOLIDA MAJOR. See Symphytum. CONSOLIDA MEDIA. See Ajuga pyramidalis CONSOLIDA MINOR. See Pruncila.

Consolida Regalis. See Delphinium consolida. Consolida saracenica. See Solidago virga aurea. Consoundo. See Symphytum. Consound middle. See Jiyaga pyramidalis. Constantinus, see Jiyaga pyramidalis. Constantinus, and tarthage, towards the middle of the 11th century. He lived near forty years at Babylon, and was celebrated for his knowledge of the Eastern languages. Among the sciences, medicine appears to have principally the sciences, medicine appears to have principally occupied his attention; and two of his works were thought deserving of being printed at Bâle, about 4 1-2 centuries after his death, which occurred in 1087. They are thought however to have been chiefly translated from Arabian writers.

CONSTIPATION. (Constipatio: from constipo, to crowd together.) Obstipatio. Costiveness. A person is said to be costive when the alvine excrements are not expelled daily, and when the fæces are so hardened as not to receive their form from the im-

pression of the rectum upon them.

CONSTITUTION. Constitutio. The general condition of the body, as evinced by the peculiarities in the performance of its functions: such are, the pecu-liar predisposition to certain diseases, or liability of particular organs to disease; the varieties in digestion, in muscular power and motion, in sleep, in the appetite, &c. Some marked peculiarities of constitution are observed to be accompanied with certain external characters, such as a particular colour and texture of the skin, and of the hair, and also with a peculiarity of form and disposition of mind; all of which have been observed from the earliest time, and divided into classes: and which received names during the prevalence of the humeral pathology which they still retain. See Temperament.

CONSTRICTI'VA. (From constringo, to bind toge-

CONSTRICTOR. (From constringo, to bind together.) A name given to those muscles which conther.) A name given to these tract any opening of the body.

tract any opening of the body.

See Depressor labit su-

perioris alaque nasi.

CONSTRICTOR ANI. See Sphincter ani.

CONSTRUCTOR ANI. See Spainceer an.

CONSTRUCTOR ISTHMI FAUCIUM. Glosso-staphilinus.
of Winslow, Douglas, and Cowper; and Glosso staphilin of Dumas. A muscle situated at the side of the entry of the fauces, that draws the volum pendulum pelati towards the root of the tongue, which it raises at the same time, and with its fellow contracts the passage between the two arches, by which it shuts the opening of the fauces.

CONSTRICTOR LABIORUM. See Orbicularis oris.

CONSTRICTOR ORIS. See Orbicularis oris

CONSTRICTOR PALPEBRARUM. See Orbicularis pal-CONSTRICTORES PHARYNGEL. The muscles of the

œsophagus.

ryngeus; Thyro-pharyngeus of Douglas and Win-elow. Cricothyropharyngien of Dumas. A nuscle situated on the mostoriosituated on the posterior part of the pharynx. It arises from the side of the thyroid cartilage, near the attachment of the sterno-hyoidens and thyro-hyoidens muscles; and from the cricoid cartilage, near the crico-thyroideus; it is inserted into the white line, joins with its fellow, the superior fibres running obliquely upwards, covering nearly one-half of the middle constrictor, and terminating in a point; the inferior fibres run more transversely, and cover the beginning of the esophagus. Its use is to compress that part of the pharynx which it covers, and to raise it with the larynx a little upwards.

that part of the pharying that it with the larynx a little upwards.

Constructor firstnings medius. Hyppharyingens and cephalo-pharyingens of Douglas and Winslow. Chondro-pharyingens of Douglas. Syndesmondoryingens of Winslow. Cephalo-pharyingens of Winslow and Douglas. Hyp-glosso basi-pharyingen of Dimas. A muscle situated on the posterior part of the pharyinx. It arises from the appendix of the os hyoides, from the corne of that bone, and from the ligament which connects it to the thyroid cartilage: the fibres of the superior part running obliquely upwards, and covering a considerable part of the superior constrictor, terminate in a point; and it is inserted into the middle of the cunerform process of theoso occipitis, before the formen magnum, and joined to its fellow at a white line in the middle part of the pharyia. R. 2

This muscle compresses that part of the pharynx which it covers, and draws it and the os hyoides up-

CONSTRICTOR PHARYNGIS SUPERIOR. CONSTRICTOR PHARNNESS SUPERIOR. Glosso-phoryngeus; Mylo-pharyngeus; Pterugo-pharyngeus of Douglas and Winslow, and Pterigo syndesma staphist pharyngien of Dumas. A muscle situated on the posterior part of the pharynx. It arises above, from the cuneiform process of the os occipitis, before the foramen magnum, from the pterygoid process of the sphenoid bone, from the upper and under jaw, near the roots of the last deutes motiares, and between the jaws. It is inserted in the middle of the pharynx. Its lasses is to compress the upper part of the pharynx. Glosso-phor use is to compress the upper part of the pharynx, and to draw it forwards and upwards.

CONSTRICTOR VESICE URINARIE. See Detrusor

CONSTRICTO'RIUS. A disease attended with constriction, or spasm.

CONSTRINGEN'TIA. (From constringo, to bind together.) Astringent medicines. See Astringent.

CONSUMPTION. (From consumo, to waste away.)

See Phthisis.

See Phthasis.

Contabesse'ntia. (From contabesco, to pine or waste away.) An atrophy, or nervous consumption.

CONTAGION. (Contagio; from contango, to meet or touch each other.) This word properly imports the application of any poisonous matter to the body through the medium of touch. It is applied to those very subtile particles arising from putrid substances, or from person labouring under certain dis-eases, which communicate the disease to others; as the contagion of putrid fever, the effluvia of dead ani-mal or vegetable substances, the missm of bogs and fens, the virus of smallpox, lues wenerea, &c. &c.

The principal diseases excited by poisonous mias-The principal diseases excited by poisonous mas-mata are, intermittent, remittent, and yellow fevers, dysentery, and typhus. That of the last is generated in the human body itself, and is sometimes called the typhoid fomes. The other miasmata are produced from moist vegetable matter, in some unknown state of decomposition. The contagious virus of the plague, smallpox, measles, chincough, eynanche maligna, and scarlet fever, as well as of typhus and the jail fever, operates to a much more limited distance through the intermedium of the atmosphere, than the marsh miasmuta. Contact of a diseased person is said to be ne-cessary for the communication of plague; and ap-proach within 2 or 3 yards of him, for that of typhus. The Walcheren miasuata extended their pestilential influence to vessels riding at anchor, fully a quarter of a mile from the shore.

a mite from the shore.

The chemical nature of all these poisonous effluvia is little understood. They undoubtedly consist, however, of hydrogen, united with sulphur, phosphorus, carbon, and azot, in unknown proportions, and unknown states of combination. The proper neutralizers or destroyers of these gasiform poisons, are nitricated vapour, muriatic acid gas, and chlorine. The last two are the most efficacious; but require to be used in situations from which the patients can be removed at the time of the application. Nitric acid vapour may, however, he diffused in the apartments of the siek, without much inconvenience. Bed-clothes, particularly blankets, can retain the contagious fourse, in ticularly blankets, can retain the contagious fomes, in an active state, for almost any length of time. an active state, for almost any tength of time. Hence, they ought to be furnigated with peculiar care. The vapour of burning sulphur or sulphurous acid is used in the East, against the plague. It is much infectior in power to the other antiloimic reagents.

There does not appear to be any distinction complete the burners containing and infectious dis-

monly made between contagious and infectious dis-

[The very evident distinction has long since been made and employed in this country. Contagion is applied to those diseases which are propagated from one to another by contact or close approach, and which produces a like disease; as the venereal disease, itch, smallpox, measies, &c. Diseases produced by infection, are those contracted from a vitiated atmosphere, as intermittent, remittent, bilious, and yellow fovers. In 1819 and 1820, we had the yellow fover in New-York, and the board of health shut up that part of the city where the disease prevailed, by running fences across the streets leading to it. This was called the official district, from the local causes contaminating the atmosphere and producing the infection [The very evident distinction has long since been made nating the atmosphere and producing the infection

Beyond this district the city was not unhealthy, and those who were taken sick in the infected district, when removed to other parts not infected, recovered, and did not communicate the disease to others.

and do not communicate the continue, to restrain.) It is sometimes used to express a tension or stricture. Continues used to express a tension or stricture. Continues februs. A continent fever, which proceeds regularly in the same tenor, without either exacerbation or remission. This rarely, if ever, happens. Continue, to persevere.)

CONTINUA FERRIS. (From continuo, to persevere.)
A continued fever. See Febris continua.
CONTINUED. Continuus; from continuo, to persevere.) A term applied in pathology to diseases which go on with a regular tenor of symptoms, but moetly to fevers, the symptoms of which continue, without intermission, until the disease terminates: hence continual fevers in distinction to intermittent

CONTINUUS. See Continued.

CONTO RSIO. (From contorqueo, to twist about.)

A contortion, or twisting. In medicine this word has various significations, and is applied to the iliac pas-

sion, to luxation of the vertebre, head, &c.
CONTOKTÆ. Twisted plants. The name of an order in Linneau's Fragments of a Natural Method, consisting of plants which have a single petal that is twisted or bent toward the side, as Nerium Vinca, &c.
CONTORTUS. (From con, and torqueo, to twist.)
Twisted. A plied to the seed-vessel of plants; as the

Twisted. Applied to the seed-vessel of plants; as the fegumen controlum of the Medicago sating. CONTRA-APERTURA. (From contra, against, and aperio, to open.) A counter-opening. An opening made opposite to the one that already exists. CONTRACTILITY. Contractilitas. A property in bodies, the effect of the cohesive power, by which

their particles resume their former propinquity when the force ceases which was applied to separate them. It also denotes the power which muscular fibres pos-

Sess of shortening themselves.

CONTRACTION. (From contrado, to draw together.) Contractura; Beriberia. A rigid contraction of the joints. It is a genus of disease in the class Locales, and order Dyscinesia of Cullen. The species

are,

1. Contractura primaria, from a rigid contraction of the muscles, called also obstipitas; a word that, with any other annexed, distinguishes the variety of the contraction. Of this species he forms four varieties. 1. Contractura ab inflammatione, when it arises from inflammation. 2. Contractura à spasmo, called also tonic spasm and cramp, when it depends upon spasm. 3. Contractura ob antagonistas paraliticos, from the antagonist muscles losing their action. 4. Contractura ab acrimonia irritante, which is induced by some irritating cause.

2. Contractura articularis, originating from a disase of the joint.

CONTRAFISSU'RA. (From contra, against, and

findo, to cleave.) Contro-coup of French writers. A fracture in a part opposite to that in which the blow is received; as when the frontal bone is broken by a fall on the occiput, where the bone remains sound.

fall on the occiput, where the bone remains sound.

CONTRAENTIA. (From contract.)

Medicines which shorten and strengthen the fibres.

Astringents are the only medicines of this nature.

CONTRA-INDICATION. (Contra-indicatio; from contra, against, and indice, to show.) A symptom attending a disease, which forbids the exhibition of a remedy which would otherwise be employed; for instance, bark and acids are usually given in putrid fewers; but if there be difficulty of breathing, or inference to the contractions of any viscus, they are contra-indications. flammation of any viscus, they are contra-indications to their use.

CONTRA-LUNA RIS. (From contra, and luna, the moon.) An epithet given by Dietericus to a woman

who conceives during the menstrual discharge.
CONTRA-SEMEN. See Artemisia Santonica.
CONTRAYERVA. (From contra, against, and
yeroe, poison, Span.; i. e. an herb good against poison.) See Dorstenia.

CONTRAYERVA ALBA. Cantrayerva Germanorum.

A name for a species of asclepias.

CONTRAYERVA NOVA. Mexican contrayerva. See

Psoralea pentaphylla. CONTRAYERVA VIRGINIANA. See Aristolochia ser-

Contre-coup. See Contragesura.

CONTRITIO. The act of grinding, or reducing to

CONTUSION. (Contusio; from contundo, to knock

CONTUSION. (Contusso; from contunto, to knock together.) A bruise, or contused wound.
CONVA. A cone. See Strobilus.
CONVALESCENCE. (Convalescentia; from convalesce, to grow well.) The recovery of health after valesco, to grow well.) The recovery of health after the cure of a disease. The period of convalescence is that space from the departure of a disease, to the recovery of the strength lost by it.

CONVALESCENT. Recovering or returning to a

CONVALESCENT: Recovering or returning to a state of health after the cure of a disease.

CONVALLA'RIA. (From convallis, a valley; named from its abounding in valleys and marshes.)

The name of a genus of plants in the Linnean system. Class, Hexandria; Order, Monogynia.

CONVALLARIA MAJALIS. The systematic name of the

lily of the valley. Lillium convallium; Convallaria; Maianthemum. May-lily. The flowers of this plant, Convallaria—scapo nudo of Linnæus, have a penetraing bitter taste, and are given in nervous and catarrhal disorders. When dried and powdered, they prove strongly purgative. Watery or spirituous extracts made from them, given in doses of a scruple, or drachm, act as some contents. act as gentle stimulating aperients and laxatives; and seem to partake of the purgative virtue, as well as the bitterness of aloes. The roots, in the form of tincture, or infusion, act as a sternutatory when snuffed up the nose, and as a laxative or purgative when taken inter-

nally.

Convallaria polygonatum. The systematic name of Solomon's seal. Sigillum Salomonis; Convallaria—folis alternis amplexicantibus, caute ancipit, pedunculis avillaribus subuniforis, of Linnavus. The roots are applied externally as adstringents, and are administered internally as corroborants.

CONVEXUS. Convex. A term in very general

use in anatomy, botany, &c.
CONVOLU'TA OSSA. See Spongiosa ossa.
CONVOLU'TUS. Rolled up or folded. Applied to bones, membranes, leaves, &c.
CONVO'LVULUS. (From convolvo, to roll toge-

ther, or entwine.)

A name for the iliac passion.

The name of a genus of plants in the Linnæan system, so called from their twisting round others, (Class, Pentandria, Torder, Monogynia,) which affords the Jalapa, mechoacanna, turbith, and seamnony. The whole genus consists of plants containing a milky juice strongly cathartic and caustic.

The jalap root. CONVOLVULUS AMERICANUS.

Convolvulus jalapa.

CONVOLVULUS BATATAS. Batatas. A native of the West Indies. Its root is firm and of a pale brown on the outside, and white within. When boiled it is sweet, like chesnuts, and is esteemed by some as an

[This is the sweet potato, extensively cultivated and eaten in all the southern parts of the United State

eaten in all the southern parts of the United States, even as far north as New-Jersey. It is commonly called the Carolina potato. See Batatas. A.]

Convolvulus cantabrica. A name for the cantabrica. Convolvulus minimus spica folia; Convolvulus linaria folio; Convolvulus Cantabrica of Linneus. Lavender-leaved bind-weed. Pliny says it was discovered in the time of Augustus, in the counterparts of the converse of was discovered in the time of Adgastas, in the country of the Cantabri in Spain; whence its name. It is anthelmintic and actively cathartic.

Convolvulus colubrinus. The pariera brava.

See Cissampelos pareira.

See Cissampelos pareira.

Convolvulus Jalapa. The systematic name of the jalap plant. Jalapium mechoacanna nigra. Convolulus jalap plant. Jalapium mechoacanna nigra. Convolulus, caule volubli; foliis ovatis, subcordatis, obsolete repandis, subtus villosis; pedunculis unifloris of Linasus. It is a native of South America. In the shops, the root is feund both cut into slices and whole, of an oval shape, solid, ponderous, blackish on the outside, but gray within, and marked with several dark veins, by the number of which, and by its hardness, heaviness, and dark colour, the goodness of the root is to be estimated. It has scarcely any smell, and very little taste, but to the tongue, and to the throat, manifests a slight degree of pungency. The medicinal activity of jalap resides principally, if not wholly, in the resin, which, though given in small doses, occasions violent tormina. The root powdered is a very common, efficacious, and safe purgative, as is a very common, efficacious, and safe purgative, as

daily experience evinces; but, according as it contains more or less resin, its effects must of course vary. large doses, or when joined with calomel, it is recommended as an anthelminitic and hydragogue. In the pharmacopeias, this root is ordered in the form of tincture and extract; and the Edinburgh College directs it also in powder, with twice its weight of crystale of texters.

CONVOLVULUS MAJOR ALBUS. See Convolvulus

sepium.
Convolvulus maritimus. The brassica maritima, or sea colewort.

CONVOLVULUS MECHOACAN. Mechoacanna; Jalapa alba; or Bryonia alba Peruviana; Ratapa alba or Bryonia alba Peruviana; Ratapa album. Mechoacan. The root of this species of convolutus is brought from Mexico. It possesses aperient properties, and was long used as the common purge of this country, but is now wholly superseded by

jalap.

["CONVOLVULUS PANDURATUS. Wild potato. The affinity of this plant to jalap, in its botanical character, has caused a medicinal quality to be ascribed to it which it does not possess. It is one of the weakest of the medicinal quality to be ascribed to a which it does not possess. our indigenous cathartics, and requires too large a dose to be of much use in that character. It is said to mitigate strangury and gravel, and to operate as a diuretic."

-Big. Mat. Med. A.]

"Big. Mat. Med. A.]

Convolvolus scammonia. The systematic name of the scammony plant. See Scammonium; Convolvolus syriacus; Scammonium syriacum; Diagrydium. This plant, Convolvolus—folis sagitatis posicie truncatis, pedunculis teretibus subtifioris of Linnaus, affords the concrete gummi-resinous juice termed scammony. It grows plentifully about Maraash, Antioch, Ealib, and towards Tripoh, in Syria. No part of the dried plant possesses any medicinal quality, but the root, which Dr. Russel administered in decoction, and found it to be a pleasant and mild cathartic. It is and found it to be a pleasant and mild cathartic. It is from the milky juice of the root that we obtain the officinal scammony, which is procured in the following manner by the peasants, who collect it in the be-ginning of June. Having cleared away the earth from about the root, they cut off the top in an oblique di-rection, about two inches below where the stalks spring from it. Under the most depending part of spring from it. Under the most depending part of the slope, they fix a shell, or some other convenient receptacle, into which the milky juice gradually flows. It is left there about twelve hours, which time is sufficient for draining off the whole juice; this, however, is in small quantity, each root affording but a very few drachms. This juice from the several roots is put together, often into the leg of an old boot, for want of some more proper vessel, where, in a little time, it grows hard and is the centuries exampony. The small grows hard, and is the genuine seammony. The smell of seammony is rather unpleasant, and the taste bitteriah and slightly acrid. The different proportions of gum and resin, of which it consists, have been variously stated; but, as proof spirit is the best menstrum for it, these substances are supposed to be nearly in equal parts. It is brought from Aleppo and Smyrna in masses expensibly of a light shining gray colour, and equal paris. It is brought from Aleppo and sinyria in masses, generally of a light shining gray colour, and friable texture; of rather an unpleasant smell, and bitterish and slightly acrid taste. The scammony of Aleppo is by far the purest. That of Smyrna is ponderous, black, and mixed with extraneous matters. Scammony appears to have been well known to the Greek and Arabian physicians, and was exhibited internally as a purgative, and externally for the itch, tinea, fixed pains, &cc. It is seldom given alone, but enters several compounds, which are administered as purgatives.

Convolvulus major albus. CONVOLVULUS SEPIUM. The juice of this plant, Convoluulus major abus. The juice of this plant, Convoluulus—folis sagittatis postice truncatis pedunculis tetragonis, uniforis, of Linnaus, is violently purgative, and given in dropsical affections. A poultice of the herb, made with oil, is recommended in white swellings of the knee

CONVOLVULUS SOLDANELLA. The systematic name Convolutious soldankella. The systematic name of the sea convolutions. Kopufo Jaharota. Brassica marina; Convolutius maritimus; Soldanella. Soldanella. This plant, Convolutius—Johis reniformibus, pedaneuls uniforis, of Linneus, is a native of our coasts. The leaves are said to be a drastic purge. It is only used by the common people, the pharmacoponias having now substituted more safe and valuable remedies in its place.

Convolvulus syriacus. The scammony plant. See Convolvulus scammonia.

See Convolvalus reammonia.

Convolvatus turpethum. The systematic name of the turbith plant. Turpethum. The cortical part of the root of a species of convolvalus, brought from the East indies, in oblong pieces: it is of a brown or ash colour on the outside, and whitish within. The best is ponderous, not wrinkled, easy to break, and discovers to the eye a large quantity of resinous matter. When chewed, it at first imparts a sweetish tastes, which is followed by a mansacous aerimons. It is considered.

ter. When chewed, it at first imparts a sweetish taste, which is followed by a nauseous acrimony. It is considered as a purgative hable to much irregularity of action. CONVULSION. (Convulsto; from convello; to pull together.) Hieranosos; Distentio nervoyem; Syspecia convulsio of Good. Clonic spasm. A diseased action of muscular fibres, known by alternate relaxations, with violent and involuntary contractions of the muscular parts, without sleep. Culien arranges convulsion in the class Neuroses, and order Spasmi. Convulsions are universal or partial, and have obtained, different names, according to the parts affected, or Convuisions are universal to partial and nave out.

ed different names, according to the parts affected, or
the symptoms; as the risas sardonicus, when the
muscles of the face are affected; St. Vitue's dance,
when the muscles of the arm are thrown into involuntary motions, with lameness and rotations. The hysterical epilepsy, or other epilepsies, arising from different causes, are convulsive diseases of the universal kind: the muscles of the globe of the eye, throwing the eye into involuntary distortions in defiance of the direction of the will, are instances of partial convulsion. The muscles principally affected in all species of convulsions, are those immediately under the direction of the will; as those of the eyelids, eye, the direction of the will; as those of the eyelids, eye, face, jaws, neck, superior and inferior extremities. The muscles of respiration, acting both voluntarily and involuntarily, are not unfrequently convulsed; as the diaphragm, intercostals, &c. The more immediate causes of convulsions are, 1. Either mental affection, or any irritating cause exciting a greater action in the arterial system of the brain and nerves. 2. An interconcer. arterial system of the brain and nerves. 2. An increase of nervous energy, which seems to hold pace or be equipotent with the increased arterial energy excited in the brain. 3. This increased energy, conveying its augmented effects, without the direction of the will, to any muscles destined to voluntary motion, over-irritates them. 4. The muscles, irritated by the increased nervous energy and arterial influx, contract more forcibly and involuntarily by their excited visinsita, conjointly with other causes, as long as the increased nervous energy continues. 5. This increased energy in the nervous system may be excited either by the mind, or by any actimony in the blood, or other the mind, or by any acrimony in the blood, or other stimuli sufficiently irritating to increase the arterial action, nervous influence, and the vires insite of muscles. 6. After muscles have been once accustomed to act involuntarily, and with increased action, the same causes can readily produce the same effects on those organs. 7. All parts that have muscular fibres may be convulsed. 8. The sensations in the mind

may be convulsed. 8. The sensations in the mind most capable of producing convulsions, are timidity, horror, anger, great sensibility of the soul, &c. Convulsio Cannal. A wry mouth. Convulsio Cannal. A wry mouth. Convulsio Cannal. Cereal Convulsion is a singular disorder of the spasmodic convulsive kind, not common to this country, but mentioned by Cartheuser under this title, from the peculiar tingling and formication perceived in the arms and legs. Motus spasinders of Hotfman. It is endemial in some places in Germany; but more a rural than urbanical disorder, said to arise from the use of spoiled corn. Convulsio Bartualis. Saint Vitus's dance. See Chorea Sancti Vett.

Chorea Sancti Viti.

Chorea Sancti Viti.

CONY'A. (From κοιμς, dust; because its powder is sprinkled to kill fleas in places where they are troublesome.) The name of a genus of plants in the Linmann system. Class Syngenesia; Order, Polygamia superflua. There is some difficulty in ascertaining the plants called conyzas by the older practitioners: they are either of the genus conyza, inula, gnaphalium, erfgeron, or chrysocoma.

geron, or entropeonia.

CONVEA STHEOPICA. The plant so called is most probably the Chrissacoma comaurea of Willdenow, a shrub which grows wild about the Cape of Good

Hope, and is cultivated in our green-houses, because it flowers the greater part of the year.

CONYZA CHRULEA. The Erigeron acre of Linneus answers to the description of this plant.

CONYZA MAJOR. Supposed to be the Inula viscosa | of Linneus.

CUNYZA MAJOR VULGARIS. See Inula dysenterica.

CONYZA MAJOR VEDARIS. See Insua agreementation CONYZA MEDIA. See Insua applicaries of Linneus enswers to the description given of this plant in most books. Its chief use is to destroy fiers and

COOPERTO'RIA. ()
The thyroid cartilage (From co-operio, to cover over.)

The inyroid cartiage.

Coo'stream. The centre of the diaphragm.

COPA'IBA. (Copaiba, &. fem.; from copal, the
American name for any odoriferous gum, and iba, or
iva, a tree.) The name given by the College of Physicians of London to the balsam of copaiva. See Co-

COPAL FERA. (From Copaina, the Indian name, and foro, to bear.) The name of a genus of plants in the Linnaan system. Class, Decandria; Order, Mo-

nogynia.

COPAIPERA OFFICINALIS. The systematic name of the plant from which the Copaiba balsam, Halsamum Braziliense; Balsamum copaiba; Balsamum de co-paiba; Balsamum capevi; Copaiba; Capevi; is ob-tained.

Copaiba is a yellow resinous juice, of a moderately Copaiba is a yellow resinous juice, of a moderately agreeable smell, and a bitterish biting tastet, very permanent on the tongue. The tree which affords it grows in Brazil, New-Spain. It is obtained by making deep incisions near its trunk, when the balsam immediately issues, and, at the proper season, flows in such abundance, that sometimes, in three hours, twelve pounds have been procured. The older trees afford the best balsam, and yield it two or three times in the same year. The balsam supplied by the young and vigorous trees, which abound with the most juice, is crude and watery, and is, therefore, accounted less vigorous trees, which about with the most pilet, or crude and watery, and is, therefore, accounted less valuable. While flowing from the tree, this balsam is a colourless fluid; in time, however, it acquires a yellowish tinge, and the consistence of oil; but, though by age it has been found thick, like honey, yet it never becomes solid, like other resinous fluids. By distillabecomes solid, like other resinous fluids. By distilla-tion in water, the oil is separated from the resin; and, in the former, the taste and smell of the balsam are concentrated. If the operation is carefully performed, concentrated. If the operation is carefully performed, about one-half of the balsam rises into the receiver, in the form of oil. The balsam unites with fixed and volatile oils, and with spirit of wine. It is given in all diseases of the urinary organs, when no inflammation is present. In gleets, and in gonorrhea, it was once a favourite remedy, but is now disused. In diseases of the kidneys it is still employed, though less frequently than usual; and in hæmorrhoids it is occasionally trusted. The dose is from 20 to 30 drops, twice or the times above mised with water, by nears of an three times a day, mixed with water, by means of an egg, or any mucilage. The balsam of copaiva is occasionally adulterated with turpentine, but its virtues

sionally adulterated with turpentine, but its virtues are not greatly injured by the fraud.

Copalva. See Copaiba.

COPAL. (The American name of all clear odoriferous guns.) Gum copal. This resinous substance is imported from Guinea, where it is found in the sand on the shore. It is a hard, shining, transparent, citron-coloured, odoriferous, concrete juice of an American tree, but which has neither the solubility in water common to gums, nor the solubility in alkohel common to resins, at least in any considerable degree. By these properties it resembles amber. It may be dissolved by digestion in linseed oil, rendered driving by these properties it resembles amber. It may be dissolved by digestion in linseed oil, rendered drying by quicklime, with a heat very little less than sufficient to boil or decompose the oil. This solution, diluted with oil of turpentine, forms a beautiful transparent varnish, which, when properly applied, and slowly dried, is very hard, and very durable. This varnish is applied to snuff-boxes, tea-boards, and other utensils. It preserves and gives lustre to paintings, and greatly restores the decayed colours of old pictures, by filling up the cracks, and rendering the surfaces capable of reflecting light more uniformly.

Cope LLA. See Cupel.

reflecting light more umorumy.

COP'LLA. See Cupel.

CO'PHER. A name for camphor.

CO'PHOS. (Kωφος, dumb.) Deaf or dumb. Also
a dulness in any of the senses.

COPHO'SIS. (From κωφος, deaf.) A difficulty of
hearing. It is often symptomatic of some disease.

COPPER. (Cuprum, i. neut. quasi æs Cyprium;

so named from the island of Cyprus, whence it was so named from the island of Cyprus, whence it was formerly brought.) "A metal of a peculiar reddishbrown colour: hard, somorous, very milleable and ductile; of considerable tenacity, and of a specific gravity from 8.6 to 89. At a degree of heat far below ignition, the surface of a piece of polished copper becomes covered with various ranges of prismatic colours, the red of each order being nearest the end dulich has been most heated; an effect which must doubtless be attributed to oxidation, the stratum of cytic being thickest, where the heat is greatest and oxide being thickest where the heat is greatest, and growing gradually thinner and thinner towards the growing gradualy similar toolder part. A greater degree of heat oxidizes it more rapidly, so that it contracts thin powdery scales on its surface, which may easily be rubbed off; the frame of the fuel becoming at the same time of a beau-tifs' bluish-green colour. In a heat, nearly the same as L. necessary to melt gold or silver, it melts, and ex-hibits a bluish-green flame; by a violent heat it bolls, and is voiatilized partly in the metallic state.

Copper rusts in the air; but the corroded part is

very thin, and preserves the metal beneath from far-

ther corrosion.

ther corrosion.

There are two oxides of copper:

1st, The black, procurable by heat, or by drying the
hydratic oxide precipitated by potassa from the nitrate. It consists of 8 copper +2 oxygen. It is a deu-

toxide.

2dly, The protoxide is obtained by digesting a solution of muriate of copper with copper turnings, in a close phial. The colour passes from green to dark brown, and gray crystalline grains are deposited. The solution of these yields, by potassa, a precipitate of an orange colour, which is the protoxide. It consists of 8 copper +1 oxygen. Protoxyde of copper has been lately found by Mushet, in a mass of copper, which had been exposed to heat for a considerable time, in one of the melting furnaces of the mint under his superintendence. his superintendence.

Copper, in filings, or thin lamina, introduced into chlorine, unites with flame into the chloride, of which there are two varieties; the protochloride, a fixed yellow substance, and the deutochloride, a yellowish-

brown pulverulent sublimate.

The crystalline grains deposited from the above atic solution, are protochloride. The protochlo-1. The crystainine grains deposited from the above muriatic solution, are protochloride. The protochloride is conveniently made by heating together two parts of corrosive sublimate, and one of copper filings. An amber-coloured translucent substance, first discovered by Boyle, who called it resin of copper, is obtained. It is fusible at a heat just below redness; and in a close vessel, or a vessel with a narrow orifice, is not decomposed or sublimed by a strong red heat.

But if air be admitted, it is dissipated in dense white
fumes. It is insoluble in water. It effervesces in
nitric acid. It dissolves silently in muriatic acid, from which it may be precipitated by water. By slow cooling of the fused mass, Dr. John, Davy obtained it crystallized, apparently in small plates, semi-transparent, and of a light yellow colour. It consists, by the same ingenious chemist, of Chlorine, 36 or 1 prime =4.45 35.8 Copper, 64 or 1 prime 8.00 64.2

12.45 100.0

2. Deutochloride is best made by slowly evaporating to dryness, at a temperature not much above 400° Fahr. the deliquescent nuriate of copper. It is a yellow powder. By absorption of moisture from the air, it passes from yellow to white, and then green, repro-It passes from yellow to white, and then given, reproducing common muriate. Heat converts it into protochloride, with the disengagement of chlorine. Dr. Davy ascertained the chemical constitution of both these compounds, by separating the copper with iron, and the chlorine by nitrate of silver. The deutochloride consists of

Chlorine, 53 2 primes 8.9 Copper, do. 8.0 47.3

> 5005 16.9 100.0

The iodide of copper is formed by dropping aqueous hydriodate of potassa into a solution of any supreous salt. It is an insoluble dark brown powder.

Phosphuret of copper is made by projecting phospheret of the company of the company of the copper is made by projecting phospheret of the copper is made by projecting phospheret

phorus into red-hot copper.

4. .. .

Sulphuret of copper is formed by mixing together adding alkohol to the solution of the preceding salt, eight parts of copper filings, and two of sulphur, and which precipitates the subsulphate. It is the cuprum exposing the mixture to a gentle heat.

The sulphuric acid, when concentrated and boiling,

dissolves copper.

Nitric acid dissolves copper with great rapidity, and Notice acid dissolves capper with great rapidly, and desengages a large quantity of nitrous gas. Part of the mesal falls down in the form of an oxide; and the filterated or decented solution, which is of a much deeper blue colour than the sulphuric solution; affords crystals by slow evaporation. This sait is deliquescent, ery soluble in water, but most plentifully when the fluid is heated.

The saline combinations of copper were formerly called sales veneres, because Venus was the mythological name of copper. They have the following

general characters

They are mostly soluble in water, and their solutions have a green or blue colour, or acquire one of these colours on exposure to air.
 Ammonia added to the solutions, produces a

deep blue colour.
3. Ferroprussiate of potassa gives a reddish-brown precipitate, with cupreous salts.

4. Gallic scid gives a brown precipitate

5. Hydrosulphuret of potassa gives a black precipi-

A plate of iron immersed in these solutions throws down metallic copper, and very rapidly if there he a slight excess of acid. The protoxide of copper can be combined with the acids only by very particular management. All the ordinary salts of copper have the peroxide for a base.

The joint agency of air and acetic acid, is necessary to the production of the cupreous acetates.

sary to the production of the cupreous accetaes. By exposing copper plates to the vapours of vinegar, the bluish-green verdigris is formed, which, by solution in vinegar, constitutes accetae of copper.

Arseniate of copper presents us with many subspecies which are found native. The arseniate may be formed artificially by digesting arsenic acid on copperate the adding agencies of varieties of accessed as a currents. per, or by adding arseniate of potassa to a cupreous saline solution.

Carbonate of copper. Of this compound there are three native varieties, the green, the blue, and the anhydrous.

Chlorate of copper is a deflagrating deliquescent green sait

Fluate of copper is in small blue-coloured crystals. Hydriodate of copper is a grayish-white powder. Protomuriate of copper has already been described

in treating of the chlorides.

Deutomuriate of copper, formed by dissolving the deutoxide in muriatic acid, or by heating muriatic acid on copper filings, yields by evaporation crystals

of a grass-green colour.

The ammonio-nitrate evaporated, yields a fulminating copper. Crystals of nitrate, mixed with phos-

phorus, and struck with a hammer, detonate.

Subnitrate of copper is the blue precipitate, occasioned by adding a little potassa to the neutral nitric

Nitrate of copper is formed by mixing nitrate of lead with sulphate of copper.

The sulphate, or blue vitriol of commerce, is a bisulphate.

A mixed solution of this sulphate and salammoniac, forms an ink, whose traces are invisible in the cold, but become yellow when heated; and vanish again

as the paper cools.

as the paper coons.

Protosulphite of copper is formed by passing a current of sulphurous acid gas through the deutoxide of copper diffused in water. It is deprived of a part of its oxygen, and combines with the acid. The sulphate, simultaneously produced, dissolves in the water; while the sulphite forms small red crystals, from which merely long ebullition in water expels the acid.

Sulphite of potassa and copper is made by adding the sulphite of potassa to nitrate of copper. A yellow flocculent precipitate, consisting of minute crystals,

Ammonia-sulphate of copper is the salt formed by adding water of ammonia to solution of the bisulphate. It consists, according to Berzelius, of 1 prime of the capreous, and 1 of the ammoniacal sulphate, combined together; or 20.0+7.13+14.625 of water.

Subsulphate of ammonia and coppor is formed by

ammontaeum of the pharmacoperia.

Sulphate of potassa and copper is formed by digesting bisulphate of potassa on the deutoxide or car-

bonate of copper.

bonale of copper.

The following acids, antimonic, antimonious, boracic, chronic, molybdic, phosphoric, tungstic, form insoluble salts with deutoxide of copper. The first two are green, the third is brown, the fourth and fifth green, and the sixth white. The benzonte is in green crystals, sparingly soluble. The exalate is also green. The binoxalates of potassa and soda, with oxide of copper, give triple salts, in green needle-form crystals. Copper give typic sause in green neutre form trystals. There are also ammonia oxalates in different varieties. Tartrate of copper forms dark bluish-green crystals. Cream-tartrate of copper is a bluish-green powder, commonly called Brunswick green.

To obtain pure copper for experiments, we precipi-

tate it in the metallic state, by immersing a plate of iron in a solution of the deutomuriate. The pulverulent copper must be washed with dilute muriatic

acid.

This metal combines very readily with gold, silver, and mercury. It unites imperfectly with iron in the way of fusion. Tin combines with copper, at a temperature much lower than is necessary to fuse the perature much lower than is necessary to fuse the copper alone. On this is grounded the method of timing copper vessels. For this purpose, they are first scraped or scoured; after which they are rubbed with sal-ammoniac. They are then heated, and sprinkled with powdered resin, which defends the clean surface of the copper from acquiring the slight film of oxide that would prevent the adhesion of the tin to its surface. The metted tin is then poured in, and spread about. An extremely small quantity adheres to the copper, which may perhaps be supposed insufficient to prevent the noxious effects of the copper as perfectly as might be wished. per as perfectly as might be wished.

When tin is melted with copper, it composes the

compound called bronze.

Copper unites with bismuth, and forms a reddishwhite alloy. With arsenic it forms a white brittle compound, called tombac. With zine it forms the compound called brass, and distinguished by various other names, according to the proportions of the two interediactics. ingredients.

Copper unites readily with antimony, and affords a compound of a beautiful violet colour. It does not readily unite with manganese. With tungsten it forms a dark brown spongy alloy, which is somewhat

ductile

Verdigris, and other preparations of copper, act as virulent poisons, when introduced in very small quantities into the stomachs of animals. A few grains are sufficient for this effect. Death is commonly preceded by very decided nervous disorders, such as convulsive movements, tetanus, general insensibility, or a palsy of the lower extremities. This event happens frequently so soon, that it could not be occasioned by inquently so soon, that it could not be occasioned by in-flammation or erosion of the prima via; and indeed, where these parts are apparently sound. It is proba-ble that the poison is absorbed, and, through the circu-lation, acts on the brain and nerves. The cupreous preparations are no doubt very acrid, and if death do not follow their immediate impression on the sentient system, they will certainly inflame the intestinal canal. The symptoms produced by a dangerous dose of cop per are exactly similar to those which are enumerated under arsenie, only the taste of copper is strongly felt. The only chemical antidote to cupreous solutions, whose operation is well understood, is water strongly impregnated with sulphuretted hydrogen. The alkaline hydrosulphurets are acrid, and ought not to be prescribed.

But we possess, in sugar, an antidote to this poison, of undoubted efficacy, though its mode of action be obscure. Duval introduced into the stomach of a dog, obscure. Duval introduced into the stomach of a dog, by means of a caoutchouc tube, a solution in acetic acid, of four French drachms of oxide of copper. Some minutes afterward he injected into it four ounces of strong syrup. He repeated this injection every half-hour, and employed altogether 12 ounces of syrup. The animal experienced some tremblings and convulsive movements. But the last injection was followed by a perfect calm. The animal fell saleen, and overlayed free from any aliment. and awakened free from any ailment.

Orfila relates several cases of individuals who had ! by accident or intention swallowed poisonous doses of by accident or intention awaiiowed poisonous cost, or acciate of copper, and who recovered by getting large doses of sugar. He uniformly found, that a dose of werdigris which would kill a dog in the course of an hour or two, might be swallowed with inpunity, provided it was mixed with a considerable quantity

As alkohol has the power of completely neutraliz-ing, in the æthers, the strongest muriatic and hydriodic acids, so it would appear that sugar can neutralize the oxides of copper and lead. The neutral saccharite of lead, indeed, was employed by Berzelius in his experilead, indeed, was employed by Berzelius in his experi-ments, to determine the prime equivalent of sugar. If we boil for half an hour, in a flask, an onuce of white sugar, ar onuce of water, and 10 grains of verdigris, we obtain a green liquid, which is not affected by the nicest tests of copper, such as ferroprussiate of potassa, ammonia, and the hydrosulphurets. An insoluble green carbonate of copper remains at the bottom of the flask."—Ure's Chem. Dict.

Copper, ammoniated solution of. See Cupri ammo-

iati liquor. CO'PPERAS. A name given to blue, green, and

(From κοπρος, dung, and αγω, to COPRAGO'GA. COPRAGO'GA. (From κοπρος, dung, and αγω, to bring away.) Purgatives. Copragogum is the name of a gently-purging electuary, mentioned by Rulandus. COPRIE MESIS. (From κοπρος, excrement, and αμες, to vomit.) A vomiting of faces.

COPROCRITICA. (From κοπρος, excrement, and with any large productions).

cates, to vomit.) A vomiting of faces.
Coprockities. (From κσπρος, excrement, and κρινω, to separate.) Mild cathartic medicines.
Coprophorias. (From κσπρος, excrement, and φορω, to bring away.) A purging.
COPROS. Κοπρος. The faces, or excrements from

the bowels.

COPROSTA'SIA. (From κοπρος, fæces, and ιςημι, remain.) Costiveness, or a constriction of the to remain.)

COPTA'RIOM. (Kon7n, a small cake.) Coptarium.

A lozenge. CO'PTE.

COPTE.  $(Ko\pi/\eta_{\eta}, a \text{ small cake.})$  1. The form of a medicine used by the ancients. 2. A cataplasm generally made of vegetable substances, and applied externally to the stomach, and on

many occasions given internally.

["COPTIS TRIFOLIA. Gold thread. The coptis tri-folia, which was arranged among the Hellebores by Linnæus, is a beautiful native, evergreen plant, of the Linnæus, is a beautiful native, evergreen plant, of the northern States. Its roots are creeping, thread-shaped, and of a bright yellow colour. They have an intensely bitter taste, without warmth or astringency. Alkoholis is the best solvent of this article, forming a bright yellow tincture. Water also extracts the bitterness, but less perfectly. Gold thread is a pleasant tonic, and promotes appetite and digestion. It is a popular remedy in apthous mouths and ulcers of the throat, though tides not appear to he very powerful in these core. dy in apthous mouths and ulcers of the throat, though it does not appear to be very powerful in these complaints. As a tonic it may be given in the dose of ten or twenty grains of the powder. It is, however, somewhat difficult to pulverize, owing to the tenacity of the fibres. A tincture, formed by an ounce of the root in a pint of diluted alkohol, may be given in doses of a drachm."—Big. Mat. Med. A.]

COPULA. (Quasi compula; from compello, to restrain.) A name for a ligament.

COQUE'NTIA. (From coque, to digest.) Medicines which promote concoction.

COR. (Cor, dis. neut.)

1. The heart See Heart.

2. Gold.

An intense fire.

Coract me. (From κοραξ, a crow; so named from its black colour.) A name for a lozenge, quoted by Galen from Asclepiades. CORACO. The first part of the name of some muscles which are attached to the coracoid process of

the blade-bone.

CORACO-BRACHIALIS. Coraco-humeral of Dumas. Coraco-brachieus. A muscle, so called from its origin and insertion. It is situated on the humerus, before Coraco-brackaeus. A museue, so caned from its origin and insertion. It is situated on the humerus, before the scapula. It arises, tendinous and fieshy, from the forepart of the coracoid process of the scapula, adhering, in its descent, to the short head of the biceps; inserted, tendinous and fieshy, about the middle of the internal part of the origin of the firety, called the challe extension. third head of the triceps, called brachialis externus,

where it sends down a thin tendinous expansion to the internal condyle of the os humeri. Its use is to raise the arm upwards and forwards.

CORACOID. (Coracoideus; from ropat, a crow, and stdos, resemblance: shaped like the beak of a crow.) Some processes of the bones are so named which were supposed to resemble the beak of a crow. CORACOID PROCESS. Processus coracoides.

Scapula. See Corallium.

CORAL. See Corallium.
CORALLI'NA. (Diminuity of corallium.) Muscus maritimus; Corallina officinalis; Corallina alba.
Sea coralline; Sea moss; White wormseed. A marine production, or fucus, resembling a small plant without leaves, consisting of numerous brittle cretaceous substances, friable betwirt the fingers, and crackling between the teeth. Powdered, it is adminited to children as an anthelminthic, in the dose istered to children as an anthelminthic, in the dose of half a drachm to a drachm once or twice a day.

of half a drachm to a drachm once or twice a day. CoralLina considera. Helimintho-croton; Conferva helimintho-croton; Corallina rubra; Corallina melito-corton; Lemitho-corton; Mouse de Corse. Corsican wormweed. Fucus helimintho-corton of De la Tourrette. This plant has gained great requie in destroying all species of intestinal worms. Its virtues are extolled by many; but impartial experimentalists have frequently been disappointed of its efficacy. The Geneva Pharmacopæia directs a syrup to be made of it.

CORALLINA MELITO-CORTON. See Corallina corsi-

CORALLINA RUBRA. See Corallina corsicana.

CORALLINE. See Corallina corsicana. CORALLINE. See Corallina. Coraline, Corsicam. See Coralina corsicana. [CoralLinte. See Organic relics.] CORA'LLIUM. (Corallium, i. n.; from  $\kappa \rho \rho \eta$ , a daughter, and  $\alpha \lambda \varsigma$ , the sea, because it is the production of the sea.) Coral.

CORALIDIM ALBUM. A hard, white, calcareous brit-tle substance; the nidus of the Madrepora oculata. Class, Fermes; Order, Lithophyta. It is sometimes exhibited as an absorbent earth.

exhibited as an absorbent earth.

Corallum rubrum. Acmo. Azur. The red coral is mostly employed medicinally. It is a hard, brittle, calcareous substance, resembling the stalk of a plant, and is the habitation of the Isis nobilis. Class. Vermes; Order, Zoophyta. When powdered, it is exhibited as an absorbent earth to children; but does not appear to claim any preference to common chalk. CORALLODE NDRON. (From kopallov, coral, and δευδρου, a tree, resembling in hardness and colour a piece of coral.) The coral-tree of America; anti-venergal.

CORALLOI'DES. (From κοραλλιον, coral, and δος, likeness.) Coral-like. See Clavaria coralειδος, likeness.)

CORCHORON. (From  $\kappa o \rho \eta$ , the pupil of the eye, and  $\kappa o \rho \epsilon \omega_{\gamma}$  to purge; so called because it was thought to purge away rheum from the eyes.) The herb pimpernel, or chickweed.

pernel, or chickweed. CORCULUM. (Corculum, a little heart; diminutive of cor, a heart.) An essential part of a germinating seed, called also the embryo, or germ. It lies between the cotyledons. It is the point from which the life and organization of the future plant originate. In some seeds it is much more conspicuous than in others. The walnut, bean, pea, and lupine show it in perfection. Its internal structure, before it begins to vegetate, is observed to be very simple, consisting of a uniformly medullary substance, enclosed in its appropriate bark or skin. Vessels are formed in it as soon as the vital principle is actited to action, and parts are then developed which seemed not previously to

soon as the vital principle is excited to action, and parts are then developed which seemed not previously to exist. There are observed in it,

1. The rostclium, or little beak, which penetrates into the earth and becomes the root.

2. The plumula, which shoots above the ground, and becomes a turk of young leaves, with which the young stem, if there be any, ascends. See Cotyledon.

CONDA. See Chorda.

CORDA TYMPANI. See Chorda tympani.
CORDA WILLISH. See Dura mater.
CORDATUS. Heart-shaped. Applied to leaves,
petals, &c. which are ovate, hollowed out at the base,
according to the vulgar idea of a heart: a form very frequent in leaves; as in those of Arctium lappa, and

A leaf is called obcordate, when the apex of the heart-shaped leat is fixed to the petiole.

GORDIA. (So called by Plumer in honour of Euricius Cordius and his son Valerius, two eminent German botanists.) The name of a gonus of plants. Class, Pentandria; Order, Monogynia.

CORDIA MYXA. The systematic name of the Sebesten plant. Sebesten; Sebestina; Cordia—foliis evalution and plants. Sebesten; consumble lateralityse; calacing a consumble lateralityse; calacing.

tis, supra glabris; corymbis lateralibus; calquibus decemstriatis of Linnaus. The dark black fruit possesses glutinous and aperient qualities, and is exhibited in form of decoction in various diseases of the

chest, hoarseness, cough, difficult respiration, &c. CORDIAL. Cardiacus. Medicines are generally so termed, which possess warm and stimulating pro-

perties, and that are given to raise the spirits.

Cording Ma. (From kapa, the head, and diven, to
move about.) A headache attended with a vertigo.

Cordinate. (From cor, the heart, and dolor.

A name formerly applied to cardialgia, or

CORDUS, VALERIUS, was born in 1515, of a Hessian family. After studying in some of the German universities, he travelled through Italy, chiefly engaged universities, netravelled lirough Italy, chiefly engaged in botanical researches. He died at the early age of 29, leaving several works; a "History of Flants," many of them never before described; "Annotations on Dioscorides;" a Nuremberg Dispensatory, &c. CORE Kopp. The pupil of the eye.

GORE MATA. (From KOpse, to cleanse.) Medicines

for cleansing the skin.
CORIACEUS. Leathery.

for cleansing the skin.

CORLACEUS. Leathery. Applied to leaves and pods that are thick and tough without being pulpy, or succulent; as in the leaves of Magnotia grandiflora, Aucuba, &c. and the pods of the Lupin.

CORLANDER. See Cariandrum.

CORLANDER. See Cariandrum, i. n.; from κορη, a pupil, and ανηρ, a man: because of its roundness, like the pupil of a man's eye; or probably so called from κορες, cimez, a bug, because the green herb, seed and all, stinks intolerably of bugs.) Coriander.

1. The name of a genus of plants in the Linnean system. Class, Pentandria; Order, Dygynia.

2. The pharmacopeial name of the officinal coriander. See Coriandrum sativum.

4. The pharmacopeial name of the officinal coriander. See Coriandrum sativum.

CORIANDRUM SATIVUM. The systematic name of the plant called coriandrum in the pharmacopeias. Cassibor; Corianon. The Coriandrum—fructibus globasis, of Linneus. This plant is a native of the South of Europe, where, in some places, it is said to grow in such abundance as frequently to choke the growth of wheat and other grain. From being cultivated here as a medicinal plant, it has for expecting vated here as a medicinal plant, it has for some time become naturalized to this country, where it is usually found in corn fields, the sides of roads, and about dungfound in corn fields, the sides of roads, and about dunghills. Every part of the plant, when fresh, has a very offensive odour, but, upon being dried, the seeds have a tolerably grateful smell, and their taste is moderately warm and slightly pungent. They give out their virtue totally to rectified spirit, but only partially to water. In distillation with water, they yield a small quantity of a yellowish essential oil, which smells strongly and pretty agreeably of the coriander.

Dioscorides asserts, that the seeds, when taken in a considerable quantity, produce deleterious effects; and, in some parts of Spain and Egypt, where the fresh herb is eaten as a cordial, instances of fatuity, lethargy, &cc. are observed to occur very frequently; but

nerb is eaten as a cordial, instances of fatuity, lethar-gy, &c. are observed to occur very frequently; but these qualities seem to have been unjustly ascribed to the coriander; and Dr. Withering informs us, that he has known six drachms of the seeds taken at once, without any remarkable effect. These seeds, and inhas known six dracings of the control without any remarkable effect. These seeds, and indeed most of those of the umbelliferous plants, possess deed most of the carminative power. They are discovered the control of t a stomachic and carminative power. They are directed in the infusum amarum, the infusum seame tartarizatum, and some other compositions of the pharmacopeias; and according to Dr. Gullen, the principal use of these seeds is, "tuat infused along with seans, they more powerfully correct the odour and taste of this than any other aromatic that I have employed, and are, I believe, equally powerful in obviating the griping that senna is very ready to produce."

Considerate Section of the contraction of the c

CORIA'NON. See Coriandrum.

OO'RIS. (From κειρω, to cleave, or cut; so called

Pamus communis, and the petals of the Sium Selinum.

A leaf is called obcordate, when the apex of the heart-shaped leaf is fixed to the petiole.

CORDIA. (So called by Plumer in honour of Euricius Cordius and his son Valerius, two eminent German botanists.) The name of a genus of plants.

apparently, an active influence, and employed, a lassaid, with success in syphilis.

CORK. Suber. The bark of the Quercus suber of Linnaus, formerly employed as an astringent, but now disused. By the action of mtric acid it is acidified. See

Cork has been recently analyzed by Chevreuil by digestion, first in water and then in alkohol. By distildigestion, first in water and then in alkohol. By distillation there came over an aromatic principle, and a little acetic acid. The watery extract contained a yellow and a red colouring matter, an undetermined acid, gallic acid, an astringent substance, a substance containing azot, a substance soluble in water and insoluble in alkohol, gallate of iron, time, and traces of magnesia. 20 parts of cork treated in this way, left 17.15 of insoluble matter. The undissolved residue being treated a sufficient number of times with alkohol, yielded a variety of bodies, but which seem reducible to three; namely, cerin, resin, and an oil. The ligneous portion of the cork still weighed 14 parts, which ous portion of the cork still weighed 14 parts, which are called suber

[CORK, when burnt and reduced to a black coal, may [CORK, when burth; and reduces to a black coal, may be pulverized and given as a medicine. It produces a light and delicate carbon, which may be given by the tea-spoonful, in a little syrup or milk, to children with cholera infantum or sour stomach. It is an excelent corrector of acidity, and is a useful domestic remedy for complaints of the bowels in children during warm

for complaints of the bowels in children during warm weather. A.]

Cork, fossil. See Asbestos.

CORN. Clavus. A hardened portion of cuticle, produced by pressure: so called because a piece can be picked out like a corn of barley.

Corn salad. See Valeriana locusta.

CORNACHINI PULVIS. Scammony, antimony, and cream of tarlar.

cream of tartar.
CORNARIUS, John, was born in Upper Saxony, in CURNARIUS, John, was born in Upper Saxony, in the year 1500. According to Haller his real namewas Haguenbot, or Hanbut. He is said to have been led to the study of medicine from the delicacy of his own constitution. He graduated at Padua, after attending several other universities. Besides translating Hippocrates, and some other Greek writers into Latia, he was author of several works on medicine; and is said to have had an extensive practice. He died in 1558, leaving a son, Drowkers, who succeeded him, and was afterward professor of medicine at Vienna, and

physician to Maximitian II.

CORNARO, Lewis, of a noble Venetian family, was born in 1467. Having impaired his constitution by a debauched and voluptuous life, and brought on at last a severe illness, on recovering from this, at the age of more than 40, he adopted a strict, absternious regimen, limiting himself to twelve ounces of solid food, and fourteen of wine, daily; which quantity he rather diminished in the latter part of his life. He carefully avoided also the extremes of heat or cold, with all vioavoided also the extremes of heat or cold, with all violent exercise; and took care to live in a pure dry air. He thus preserved a considerable share of health and activity to the great age of 98. His wife, by whom he had an only child, a daughter, when they were both advanced in years, survived him, and attained nearly the same period. When he was 83, he published a short treatise in commendation of temperance, which has been repeatedly translated, and printed in every country of Europe. He then states himself to have been able to mount his horse, without assistance, from any rising ground. He wrote three other discourses on similar subjects at subsequent periods, the last only three years before his death. The best English translation is said to be that of 1779.

CORNEA. The sclerotic membrane of the eye is ocalled, because it is of a horny consistence. See

so called, because it is of a horny consistence.

Sclerotic coat.

CORNEA OPACA. See Sclerotic coat.

CORNEA TRANSPARENS. Sclerotica ceratoides. The transparent portion of the sclerotic membrane, through which the rays of light pass, is so called, to distinguish it from that which is opaque. See Sclerotic

CORNEA TUNICA. (From cornu, a horn.) The an.

terior transparent convex part of the eye, which, in species of dogwood is a native shrub, distinguished terior transparent convex part of the eye, which, in rexture, is tough like horn. It has a structure peculiar to itself, being composed of a number of concentric cellular lamelles, in the cells of which is deposited a particular sort of fluid. It is covered externally by a continuation of the conjunctiva, which belongs to the class of mucous membranes; and it is lined by a mem-brane the tunica humines. brane, the tunica humoris aquei, which seems to belong to the serous class."—Cooper's Surg. Dict. A.]

CORNE STA. A chemical retort.

CORNFLOWER. See Centaurea cyanus.

CORNI CULA. (From cornu, a horn.) - A cupping instrument, made of horn.

CORNICULA'RIS. (From cornu, a horn.) Shaped like a horn; the coracoid process of the scapula.

CORNIFORMIS. (From cornu, a horn, and forma

resemblance.) Horn-shaped: applied to the nectary of plants:—nectarium corniforme, in the orchis tribe. CO'RNU. A horn. This term is used both in anatomy, surgery, and materia medica. 1. A wart. See Verruca.

2. A corn or horny induration of the cuticle. See

3. The horn of the stag.

4. The cavities of the brain.

Cornu ametics. When the pes hippocampi of the human brain is cut transversely through, the cortical substance is so disposed as to resemble a ram's horn. This is the true cornu ammonis, though the name is often applied to the pes hippocamic.

Campi.

This name is also applied to the chambered shells This name is also applied to the Chamberet state, found in a petrified state, and designated among the organic relics of another world as Ammonites. The are very abundant in Yorkshire, England, and have been found in some places in this country. A.]
CORNU ARIETIS. See Cornu ammonis.
CORNU CREVI. Hartshorn. The horns of several

species of stag, as the Cervus alces, Cervus dama, Cervus elaphus, and Cervus taranda, are used neditinally. Boiled, they impart to the water a nutritious jelly, which is frequently served at table. Hartshorn jelly is made thus:—Boil half a pound of the shavings of hartshorn, in six pints of water, to a quart; to the strained liquor add one ounce of the juice of lemon, or of Seville orange, four ounces of mountain wine and half a pound of sugar, then hold the whole to serve half a pound of sugar; then boil the whole to a pro-per consistence. The chief use of the horns is for calcination, and to afford the liquor volations cornu cervi and subcarbonate of ammonia.

CORNU CERVI CALCINATUM. See Cornu ustum CORNU CERVI CALCINATUM. See Cornu ustum.

CORNU USTUM. Cornu cervi calcinatum. Burn
pieces of hartshorn in an open fire, till they become
thoroughly white; then powder, and prepare them in
the same manner as is directed for chalk. Burnt
hartshorn shavings possess absorbent, auticid, and adstringent properties, and are given in the form of
decoction, as a common drink in diarrheas, pyrosis, &c.

CORNUA UTERI. Pleetenæ. In comparative anatomy, the horns of the womb; the womb being in some

aminals triangular, and its angles resembling horns.

Cornum'sa. A retort.

CO'RNUS. 1. The name of a genus of plants in the

Linnean system. Class, Tetrandria; Order, Mono-

2. The pharmacopæial name of the cornel-tree. See

Cornus sanguinea.

["CORNUS FLORIDA. Dogwood. This is a small native tree, well known for its ornamental flowers in most parts of the country, but more particularly in the middle and southern states. The bark of the trunk is rough externally, and of a brownish colour within. Its taste is a strong bitter, with some astringent and aromatic flavour. It appears to contain a bitter extractive substance, tannin, gallic acid, and a small portion of resin. This bark has been much employed as a tonic in various parts of the interior country. It is particularly used in intermittent fevers, and is applied to various other cases of debility, in which tonics are When fresh, it is sometimes liable to disindicated. When fresh, it is sometimes liable to discrete the stomach and bowels, which tendency it is thought to lose by age. It may be given in powder in doses of one or two scruptes. Although this species has been most attended to, there are several others of the same genus, which, from their bitterness, promise quite as much efficacy."—Big. Mat. Med. A.]

["CORNUS CIRCINATA. Round-leafed dogwood. This 366

from others of its genus by its round leaves and beau-tifully spotted twigs. The back is not exceeded by any other in bitterness, and unites with this property the chemical and sensible evidences of astringency. It is highly valuable as a tonic and stomachic, and appears to be largely in use in some parts of the United States, particularly in Connecticut, where it is employed as a substitute for cinchona, and has become an officinal article. It is exhibited in the same way as

an officinal article. It is eminited in the sealer to get Cornus forida."—Big. Mat. Med. A.]

["Cornus sericea. Swamp dogwood. This is another of the bitter cornels, native in the United States. Its properties resemble the preceding so much, that it is unnecessary to repeat them. Indeed, the genus Cornus in the northern hemisphere, like Cinchona in the southern, appears to have the same medical character pervading all its species, differing only in degree."—Big. Mat. Med. A.]

CORNUS SANGUINEA. The fruit is moderately cooling and astringent.

(From cornu: from its resemblance to CORNU'TA.

A retort COROLLA. (From coronula, a little crown.) The leaves of a flower which consist of those more delicate and dilated, generally more coloured leaves, which are always internal with respect to the calyx, between it and the internal organs of the flower, and which conand the internal organs of the nower, and which constitute its chief beauty. It always consists of one or more coloured leaves, which are termed petals. A coloured calyx is to be distinguished from a corolla, which may be readily done in the Allyssum alpestre, and Lamium orvala.

There are four general divisions of corols.

1. Monopetalous, which consists of one petal, as in Nicotiana tabacum. 2. Polypetalous, having many; as in Lillium candi-

3. Compound, consisting of many corolla, which are not calyculated, and are on a common receptacle, and calyx; as in Helianthus annuus.

4. Aggregate, consisting of many calyculated corolla placed on a common calyx; as in Scabiosa arven.

sis, and Echinops sparocephalus.

A. Corolla monopetala, formed of one petal, which, for the nost part, forms a cavity, and is divided into, a. Limbus, the limb, which is the margin, or horizontal spreading portion.

b. Tubus, the tube, which is the cylindrical and in-

ferior part, and is enclosed in the calyx.

Fauces, or the orifice of the tube

From the figure of a regular or uniform limb are derived the following terms 1. Corolla campanulata, bell-shaped; as in Campa.

nula and Atropa.

2. C. globosa, globular; as in Hyacynthus botryoides and Erica ramentacca.
3. C. Tubulosa, tubular, as in Primula and Erica

Massoni.

4. C. claviculata; as in Erica tubiflora.
5. C. cyathiformis, cup-shaped; as in Sympathum officinale.

6. C. infundibuliformis, funnel-shaped; as in Ni-cotiana tabacum, and Datura stramonium. 7. C. hypocrateriformis, salver-shaped, a flat limb upon a long tube; as in Vinca rosea. 8. C. rotata: wheel-shaped, that is, salver-shaped,

with scarcely any tube; as in Borago-officinalis, and Physalis alkekengi.

9. C. urceolata, saucer-like; as in Evolvulus alci-

C. contorta, obliquely bent; as in Vinca minor and Nerium oleander.

11. C. ligulata, the tube very short, and ending sud dealy in an oblong petal; as in the corolla of the radius of the Helianthus annuus.

From the figure of an unequal limb:

1. Corolla ringens, irregular and gaping like the mouth of an animal; as in Lamium album, and Salvia sclarea.

2. C. personata, irregular and closed by a kind of palate; as in Antirrhinum majus.

In the ringent and personate corollæ are to be no ticed the following parts:

a. Tubus, the inferior part.

b. Rictus, the space between the two lips.

Faux, the orifice of the tube in the rectus.

d. Galea, the helmet or superior arched lip.

e. Labellum or barba, the interior lip.
f. Palatum, the palate, an eminence in the inferior lip which shuts the rietus of a personate corollage. Calcar, the spur which forms an obtuse or acute

bag at the side of the receptacle.

3. C. bilabiata, two-lipped, the tube divided into two irregular lips opposite each other, without any visible rictus; as in Aristolochia bilabiata.

In the bilabiate corolla are to be noticed,

a. The tubus. b. The faux.

 b. The faux.
 c. The superior lip, formed of one or two lobes.
 d. The injector lip, mostly three-lobed.
 e. One-lipped, the upper or lower wanting, as in Aristolockia elematities, and Teverium.
 Corolla infera, means that it is below the germen, corolla infera, means that it is below the germen. which is the most common place of the corolla; and

Corolla supera, above the germen, as in roses.

B. Corolla polypetala, formed of many petals.

In the petal of this division are noticed,

a. The unguis, the claw, the thin inferior part.
b. The lamina or border, the broader and superior

part ; example, Dianthus caryophyllis. From the number of uniform petals, the corol of

this division is named,

- Dipetalous; as in Euphorbia graminea.
  Tripetalous: as in Tradescantia virginica.
  Tetrapetalous; as in Chicranthus incanus.
- 4. Pentapetalous; as in Cateranthus incar 4. Pentapetalous; as in Lilium candidum. 5. Hexapetalous; as in Lilium candidum. 6. Polypetalous; as in Rosa centifolia.

From the figure,

1. Matvaceous; pentapetalous, with its claws united laterally, so that it appears monopetalous; as in Matva sylvestris, and Aleca.

2. Rosaceous, spreading like a rose, pentapetalous,

almost destitute of claws; as in Rosa canina, and

Paonia officinalis.

- 3. Liliaceous; six-petalled, sometimes three without a calyx; as in Lilium candidum.
  4. Caryophyllaceous: five-petalled, with a long claw, spreading border, and a monophyllous tubular calyx; as in Dianthus caryophyllus, and Saponaria officinalis.
- 5. Cruciform; three-petalled, like a cross; as in Sinapis alba, and Lunaria alba.
  6. Manifold, many corols lying one on another; as

6. Manifold, many corols lying one on another; as in Cactus Angelliformis.

From the figure of unequal petals:

1. Orchideal, five petals, three of which are bent backward, and two are lateral and in the middle of these: the labellum is bent back on the nectary.

2. Papilionacious, four petals, irregular and spreading, somewhat like a butterfly; as in Lathyrus latifo-

lius, and Robinii pseudacacia.
In a papilionaceous corolla, observe,
a. The vexillum, the standard or large concave one at the bark.

b. Ale, the wings or two side-petals, placed in the middle

c. The carina, or keel, consisting of two petals, united or separate, embracing the internal organs.

3. Calcarate or spurred, pentapetalous, one petal formed into a spur-like tube.

C. Compound corolla; consisting of numerous florets, not calyculate, and within a common perianthium.

It affords,

a. The discus, disk, or middle.

b. The radius, which forms the circumference. The marginal white florets of the daisy exemplify the rays, and the central yellow ones the disk.

From the difference in the florets of a compound

flower it is said to be,

a. Tubulate, when all the florets are cylindrical.

b. Ligulate or semiflosculose, shaped like a strap or

c. Radiate, if the florets in the radius are ligulate, and those in the disk tubular.
d. Semiradiate, the radius consisting of only a few ligulate florets on one side; as in Bidens. See also

COROLLULA. (A diminutive of corolla, a little wreath or crown.) The partial petal, or floret of a compound flower.

CORO'NA. A crown. This term is used in ana-

tomy to designate the basis of some parts; and in botany, to parts of plants, from their resemblance. In the writings of some botanists, it is synonymous with

CORONA CILIARIS. The ciliar ligament.
CORONA GLANDIS. The margin of the glans penis.
CORONA IMPERIALIS. A name for crown-imperial.
The Turks use it as an emetic. The whole plant is poisonous.

CORONA REGIA. The melilotus.
CORONA SOLIS. See Helianthus annuus.
CORONA VENERIS. Venereal blotches on the forehead are so termed.

CORONAL. (Coronalis; from corona, a crown or garland.) Belonging to a crown or garland; so named because the ancients wore their garlands in its

direction.

CORONAL SUTURE. Sutura coronalis; Sutura arcualis. The suture of the head, that extends from one temple across to the other, uniting the two parietal bones with the frontal.

CORONATRUS. See Coronary.

CORONARIE. The name of an order of plants in Linnaus's Fragments of a Natural Method, consisting of such as have beautiful flowers, thus forming a floral cray.

CORONARY. (Coronarius; from corona, a rown.) This term is applied to vessels and nerves, crown.) which supply the corona or basis of parts, or because

they spread round the part like a gariand or crown.
Coronary Ligaments. (From corona, a crown.)
Ligaments uniting the radius and ulna. The term
ligamentum coronarium is also applied to a ligament of the liver

CORONARY VESSELS. Vasa coronaria. The arte-

ries and veins of the heart and stomach.

CORONATUS. Little crown-like eminences on

the surface of the petal; or in Nerium oleander.
CORONATI. Coronaticus. The name of a class of plants in Linnæus's Fragments of a Natural Method, consisting of plants which have the seed-bud placed under the flower-cup which serves it for a crown.

CORO NE. (Κορωνη, a crow: so named from its supposed likeness to a crow's bill.) The acute process

of the lower jaw-hone.

CORONOID. (Coronoideus; from κορωνη, a crow, and ειδος, likeness. Processes of hones are so called, and ειδος, likeness. Processes of bones are so called, that have any resemblance to a crow's beak; as coronoid process of the ulna, jaw, &c..

CORONO'PUS. (From κορωνη, a carrion crow, and που, a foot; the plant being said to resemble a crow's foot.) See Plantago.

CORONILA. The hemor border which surrounds

the seeds of some flowers in the form of a crown.
CORPUS. 1. The body. See Body.

2. Many parts and substances are also distinguished by this name: as corpus callosum, corpus luteum, &c.,
CORPUS ALBICANS. Two white eminences in the
basis of the brain, discovered by Willis, and called corpora albicantia Willisii.

A synonyme of the pons Va-CORPUS ANNULARE.

rolli. See Pons Varolii.

rolii. See Pons Varotn.

Corpus callosum. Commissura magna cerebri.

The white medullary part joining the two hemispheres of the brain, and coming into view under the talx of the dura mater when the hemispheres are drawn from each other. On the surface of the corpus callosum two lines are conspicuous, called the raphe.

Corpus cavernosus curroridis. See Clitoris.

CORPUS CAVERNOSUS CLITGRIDIS.

Corpus cavernosus penis. See Penis. Corpus fimbriatum. The flattened terminations of the posterior crura of the fornix of the brain, which turn round into the inferior cavity of the lateral ventricle, and end in the pedes hippocampi.
Corpus Glandulosem. The prostate gland.
Corpus Lobosum. Part of the cortical part of the

CORPUS LUTEUM. A yellow spot found in that part of the ovarious of females, from whence an ovum has of the ovarium of females, from whence an ovum has proceeded; hence their presence determines that the female has been impregnated. The number of the corpora futae corresponds with the number of impregnations. It is, however, asserted by a modern writer, that corpora latea have been detected in young virgins, where no impregnations could possibly have taken place.

CORPUS MUCOSUM. See Rete mucosum.

Corpus MERVEO-SPONGIOSUM. The cavernous substance of the penis.

CORPUS NERVOSUM. The cavernous substance of

the clitoris.

Corpus olivare. Two external prominences of the medulla oblongata, shaped somewhat like an olive, are called corpora olivaria.

CORPUS PAMPINIFORME. Applied to the spermatic chord and thoracic duct; also to the plexus of veins surrounding the spermatic artery in the cavity of the

CORPUS PYRAMIDALE. Two internal prominences of the medulla oblongata, which are of a pyramidal shape, are called corpora pyramidalia.

CORPUS QUADRIGEMINUM. See Tubercula quadrigemina.

CORPUS RETICULARE. See Rete mucosum.
Corpus sesamoideum. A little prominence at the entry of the pulmonary artery.

CORPUS SPONGIOSUM URETHRÆ. Substantia spon giosa urethra. Corpus spongiosum penis. This sub-stance originates before the prostate gland, surrounds the urethra, and forms the bulb; then proceeds to the end of the corpora cavernosa, and terminates in the glans penis, which it forms.

Corpus STRIATUM. So named from its appearance.

CORPUS VARICOSUM. The spermatic chord.
CORRA'GO. (From cor, the heart; it being supposed to have a good effect in comforting the heart.) See
Borago officinalis.
Co'RES. (From respo.) to shave.) The temples.
That part of the jaws where the beard grows, and

That part of the jaws where the beard grows, and which it is usual to shave.

CORROBORANT. (Corroborans.) Whatever gives strength to the body; as bark, wine, beef, coldbath, &c. See Tonic.

CORROSIVE. (Corrosivus; from corrodo, to eat

away.) See Escharotic.

Corrosive sublimate. The oxymuriate of mercury.

See Hydrargyri ozymurias.
CORRUGA'TOR. (From corrugo, to wrinkle.)
The name of muscles, the office of which is to wrin-

The name of muscles, the office of which is to wrinkle or corrugate the parts they act on.

Corrugators supercettl. A small muscle situated on the forehead. Musculus supercitie of Winslow;

Musculus frontalis verus, seu corrugator contenti of Douglas; and Catamio sounciliter of Dunass. When one muscle acts, it is drawn towards the other, and projects over the inner canthus of the eye. When both muscles act, they pull down the skin of the forehead, and make it wrinkle, particularly between the eye-

CORTEX. (Cortex, icis. m. or f.) This term is generally, though improperly, given to the Peruvian bark. It applies to any rind, or bark. CORTEX ANGELINE. The bark of a tree growing in Grenada. A decoction of it is recommended as a vertical content of the commended of the commen It excites tormina, similar to jalap, and operates by purging.

CORTEX ANGUSTURE. See Cusparia.

CORTEX ANTISCORBUTICUS. The canella alba. See Winteria aromatica.

CORTEX AROMATICUS. See Winteria aromatica. CORTEX BELA-AYE. See Nerium antidysenteri-

CORTEX CANELLE MALABARICE. See Laurus

CORTEX CARDINALIS DE LUGO. The Peruvian bark: so called, because the Cardinal Lugo had testimonials of above a thousand cures performed by it in the year

CORTEX CEREBRI. The cortical substance of the brain. See Cerebrum.

CORTEX CHINE REGIUS. See Cinchona.
CORTEX CHINE SURINAMENSIS. This bark is remarkably bitter, and preferable to the other species in intermittent fevers.

CORTEX CHINCHINE. See Cinchona. CORTEX ELUTHERIE. See Croton cascarilla. CORTEX GEOFFROYE JAMAICENSIS. See Geoffroya

iamaicensis.

CORTEX JAMAICENSIS. See Acras sapota.
CORTEX LAVOLA. The bark bearing this name is supposed to be the produce of the tree which affords the Anisum stellatum Its virtues are similar

CORTEX MAGRILLANICUS. See Winteria aromatica

CORTEX MASSOY. The produce of New Guines, where it is beaten into a pultaceous mass with water, and rubbed upon the abdomen to allay pain of the It has the smell and flavour of cinnamon.

CORTEX PATRUM. See Conchona. CORTEX PERUVIANUS. See Cinchona

CORTEX PERCVIANUS. See Cinciona.
CORTEX PERCVIANUS FLAVUS. See Cinchona.
CORTEX POGGEREDE. A bark sent from America;
said to be serviceable in diarrhomas, and dysenteries.

CORTEX QUASSIX. See Quassia amara. CORTEX WINTERIANUS. See Winteria aromatica.

CO'RTICAL. Corticalis. 1. Belonging to the bark of a plant or tree.

2. Embracing or surrounding any part like the bark a tree; as the cortical substance of the brain, kid

ney, &c. CORTICO'SUS. CORTICO SUS. Like bark or rind. Applied to the hard pod of the Cassia fistularis.

CORTU'SA. See Sanicula europea.

CORU CANARICA. A quince-like tree of Malabar;

it is antidysenteric.

CORUNDUM. A genus of minerals, which, according to Jameson, contains three species; the octohedral, rhomboidal, and prismatic.

nedral, rhomboloat, and prismatic.
CORYDALES. (From kopps, a helmet.) The
name of an order of plants in Linnaeus's Fragments
of a Natural Method, consisting of plants which have
flowers somewhat resembling a helmet or hood.
CORYLUS. (Derivation uncertain: according to

some, from xapua, a walnut.) 1. The name of a genus of plants in the Linnman system. Class, Monacia; Order, Polyandria.

2. The pharmacopœial name of the hazel-tree. See

Corylus avellana.

CORYLUS AVELLANA. The hazel-nut tree. The nuts of this tree are much eaten in this country; they are hard of digestion, and often pass the bowels very little attered; if, however, they are well chewed, they give out a nutritious oil. An oil is also obtained from the wood of this tree, Corylus avellana stipulis ovatis, obtusis, of Linnæus; which is efficacious against the toothache, and is said to kill worms.

CORYMBIFERÆ. (From corymbus; a species of florescence, and fero, to bear.) Plants which bear

corymbal flowers.

CORYMBUS. (Κορυμβον, οτ κορυμβος, a branch or cluster crowning the summit of a plant; from κορυς, a helmet.) A corymb. That species of inflorescence formed by many-flowers, the partial flower-stalks of which are gradually longer, as they stand lower on the common stalk, so that all the flowers are nearly on a level; as in the Crystathemum corymbosum. It is said to be simple, when not divided into branches; as in Thiaspi arvenue, and Granahalium dentaum: and in Thispi arvense, and Gnaphalium dentatum: and compound, when it has branches; as in Gnaphalium stæchas.

Co'ryphe. Корифл. The vertex of the head.-

CORY'ZA. (Kopuga; from kapa, the head, and gao, to boil.) An increased discharge of mucus from the nose. See Catarrh. Dr. Good makes this a genus of disease; running at the nose. It has two species,

Corya entonica, and atomica.
Coscu'lla. The grains of kermes.
COSME'TIC. Cosmeticus. A term applied to remedies against blotches and freckles.

Co'smos. A regular series. In Hippocrates it is the order and series of critical days.

Co'ssis. A little tubercle in the face, like the head of a worm. Co'ssum. A malignant ulcer of the nose, men-

tioned by Paracelsus.
COSTA. A rib. 1. The rib of an animal. See Ribs.

2. The thick middle nerve-like cord of a leaf, which proceeds from its base to the apex. See Leaf.

proceeds from its base to the apex. See Loaf.
COSTALIS. (From costa, a rib.) Belonging to a
rib: applied to muscles, arteries, nerves, &c.
COSTAPUMONARIA. Very probably the Hypockeris
radicata, or long-tooted hawk-weed, which was used in pulmonary affectiona, and pains of the side.
COSTATUS. Ribbed. Applied to leaves, and is
synonymous with nervous: the leaf having simple
lines extended from the base to the point. See Leaf.
COSTO-HYOIDEUS. A muscle, so named from isa
origin and insertion. See Omehyoideus.

CO'STUS. (From kasta, Arabian.) The name of a genus of plants in the Linnaean system. Class, Monandria; Order, Monagynta.

COSTUS AMARUS. See Costus arabicus.

COSTUS ARABICUS. The systematic name of the Costus indicus; canarus; duties; orientalis. Sweet and bitter costus. The root of this tree possesses bitter and computer view. ter and aromatic virtues, and is considered as a good stomachic. Formerly there were two other species, the bitter and sweet, distinguished for use. At present, the Arabic only is known, and that is seldom employed It is, however, said to be stomachic, diaphoretic, and

COSTUS CORTICOSUS. The canella alba.
COSTUS HORTORUM MINOR. The Achillea ageratum.
COSTUS NIGRA. The artichoke.
COTARO'NIUM. A word coined by Paracelsus, im-

plying a liquor into which all bodies, and even their

elements, may be dissolved.

Co'Tis. (From  $\kappa\sigma\tau^{7}\eta$ , the head.) The back part of the head; sometimes the hollow of the neck.

COTULA. (Cotulo, diminutive of cos, a whet-stone, from the resemblance of its leaves to a whet-etone; or from κογυλη, a hollow.) Stinking chamo-

["COTULA. Mayweed. The anthemis cotula is an annual weed imported from Europe, and now very common by road sides throughout the United States. Its taste is strong, disagreeable, and bitter. In small

Its taste is strong, disagreeable, and bitter. In small quantities it is tonic, stimulating, and diaphoretic; in large once emetic and sudoritie. It is commonly given in infusion."—Big. Mat. Med. A.]
CO'TULE. (Korvλη, the name of an old measure.)
The socket of the hipbone. See Acctabulum.
COTTULA FŒTIDA. See Anthemis cotula.
COTYLEDON. (Cotyledon, onic. £.; from κοτυλη, a cavity.) Seed-lobe, or cotyledon. The cotyledones are the two halves of a seed, which, when germinating, become two pulpy leaves, called the seminal leaves. These leaves are often of a different form from those which are about to appear; as in the Raphanus sativus; and sometimes they are of another colour; as in Cannabis sativa, the seminal leaves of which are white.

Almost all the cotyledons wither and fall off, as the

Almost all the cotyledons wither and fall off, as the

plant grows up.

These bodies are spoken of in the plural, because it it is much doubted whether any plant can be said to have a solitary cotyledon, so that most plants are dicotyledonous. Plants without any, are called acoty-ledones. Those with more than two, polycotyledo-

Between the two cotyledons of the germinating seed, is seated the embryo, or germ of the plant, called by Linnaus, corculum, or little heart, in allusion to the heart of the walnut. Mr. Knight denominates it the germen: but that term is appropriated to a very dif-ferent part, the rudiment of the fruit. The expanding embryo, resembling a little feather, has, for that rea-son, been called by Linneus, planula: it soon becomes a tutt of young leaves, with which the young stem as-cends. See Corculum.

COTYLOID. (Cotyloides; from κοτυλη, the name of an old measure, and ειόες, resemblance.) Resembling the old measure, or cotute.

COTYLOID CAVITY. The acetabulum. See Innomi-

COTYLOI'DES .- See Cotyloid.

COUCHING. A surgical operation that consists in removing the opaque lens out of the axis of vision, by means of a needle constructed for the purpose.

Couch-grass. See Triticum repens. A sonorous concussion of the thorax, produced by the sudden expulsion of the air from the chest through the fances. See Catarrh.

from the chest through the fances. See Catarric. Co'un. The meadow-saftron.

COUNTER-OPENING. Contra-apertura. An opening made in any part of an abseess opposite to one already in it. This is often done in order to afford a readier egress to the collected pus.

Coup de soleil. The French for an crysipelas or apoplexy, or any affection produced instantaneously from a scorching sun.

Cou'nap. (Indian.) The provincial name of a disease of the skin common in Java, and other parts of the East Indies, accompanied by a perpetual itching and discharge of metter.

and discharge of matter.

Cou'RBARIL The tree which produces the gum anime. See Anime COURO'NDI.

An evergreen tree of India, said to be antidysenteric

COURDY MORLLI. A shrub of India, said to be antivenomous

Cou scous. An African food, much used about the river Senegal. It is a composition of the flour of millet, with some flesh, and what is there called lalo.

millet, with some flesh, and what is there called ialo.

Covolas M. See Crateva marmelos.

COWHAGE. See Doltchos pruriens.

COWHTCH. See Doltchos pruriens.

COWHTCH. See Doltchos pruriens.

COWPER, WILLIAM, was born about the middle of the 17th century, and became distinguished as a surgeon and ananomist in this metropolis. His first work, entitled "Myotomia Reformata," in 1694, far excelled any which preceded it on that subject in correctness, though since surpassed by Albinus. Three years after, he published at Oxford, "the Anatomy of Human Bodies," with splendid plates, chiefly from Bidloo; but forty of the figures were from drawings made by hinself; he added also some ingenious and Bidloo; but forty of the figures were from drawings made by himself; he added also some ingenious and useful anatomical and surgical observations. Having been accused of plagiarism by Bidloo, he wrote an apology, called "Eucharistia;" preceded by a description of some glands, near the neck of the bladder, which have been called by his name. He was also author of several communications to the Royal Society, and some observations inserted in the anthropologia of Drates. He died in 1710. Drake. He died in 1710.

Drake. He died in 1710.

Cowper's glandulæ; named from Cowper, who first described them.) Three large muciparous glands of the male, two of which are situated before the prostate gland under the accelerator nuscles of the urine, and the third more forward, before the bulb of the urethra. They excrete a fluid, similar to that of the prostate gland, during the veneral excess.

real orgasm.

COWPE'RI GLANDULE. See Cowper's glands. CO'XA. The ischium is sometimes so called, and sometimes the os coccygis.

COXE'NDIX. (From coza, the hip.) The ischium; the hip-joint. Crablouse. A

Crablouse. A species of pediculus which infests the axillæ and pudenda. [The crab-louse is not a pediculus, but belongs to the genus of acarus. If the parts infested by them be washed with an infusion of tobacco, it will soon kill

these vermin. A.]

Crab-yaws. A name in Jamaica for a kind of ulcer Crab-yaws.

Crab-yams. A name in Januaica for a kind of ulcer on the soles of the feet, with callous lips, so hard that it is difficult to cut them.

["CRAIK, Jamss, M.D. Dr. Craik was born in Scotland, where he received his education for the medical service of the British army. He came to the medical service of the British army. He came to the colony of Virginia in early life, and had the nonour to accompany the youthful Washington in his expedition against the French and Indians in 1754, and returned in safety after the hattle of the Meadows, and surrender of Fort Necessity. In 1755, he attended Braddock in his march through the wilderness, and on the 9th of July, assisted in dressing the wounds of that brave, but unfortunate commander. At the close of the French war, the subject of this article resumed and continued his professional labours till the commander. continued his professional labours till the commencement of the Revolution in 1775. By the aid of his By the aid of his ment of the Revolution in 1775. By the aid of his early and fast friend, General Washington, he was transferred to the Medical Department in the Continental army, and rose to the first rank and distinction. In 1777, he had an opportunity, which he gladly embraced, to show his fidelity to his General, and to his adopted country, by taking an active part in the developement of a nelarinus conspiracy, the object of which was the removal of the commander in chief. In 1780, he was deputed to visit Count de Rocham-In 1780, he was deputed to visit Count de Rocham-beau, then recently arrived at Riode-Island, and to make arrangements for the establishment of Hospitals to accommodate the French army. Having performed this difficult duty, he continued in the army to the end of the tors and sees response at the suggestion. of the war, and was present at the surrender of Corn-walls, on the memorable 19th October, 1781. After the cessation of hostifities, the Doctor settled as a physician in Charles County, in Maryland, but

as a physician in charms county, in analysian, but soon removed to the neighbourhood of his illustrious friend and companion, the farmer of Mount Vernou, at his particular, repeated, and urgent request. In 1798, when, like a guardian angel, the never to be for-

wrongs of his country; the venerable Craik was once more appointed to his former station in the medical staff. With the disbandment of the army, then called into service, ceased the public professional rabours of the subject of this memoir, whose life, for nearly half a century, has been devoted with zeal and high repu-tation to the cause of his country.

One trying duty yet remained to be performed; it was to witness the closing seene, and to receive the last sigh of his reversed commander, the most distinguished man of his age. Their youthful commissions had been signed on the same day; they had served together in the ranks of war, their friendship was considered. cemented by a social intercourse of lifty years' continuance, and they were greatly endeared to each other by common toils, privations, and honours. At length the moment of parting arrived; it was tender, affectionate, solemn, and impressive. In reference to that painful event, the Doctor is said to have expressed himself in this manner: "I, who was bred amid scenes of human calamity, who had so often witnessed death in its direst and most awful forms, believed that its terrors were too familiar to my eye to shake my fortitude; but when

too familiar to my eye to shake my fortitude; but when Lsaw this great man due, it seemed as if the bonds of my nature were rent asunder, and that the pillar of my country's happiness had failen to the ground." As a physician, Dr. Craik was greatly distinguished by his skill and success, and his professional merits were highly and justly appreciated. In the various relations of private life, his character was truly estimable, and his memory is precious to all who had the happiness and the honour of his acquaintance. He was one, and what a proud eulogy it is, of whom the immortal Washington was pleased to write, "my compation in arms, my old and intimate friend." He denated this life at the place of his residence in Fairdeparted this life at the place of his residence in Fair-fax county, on the 6th February, 1814, in the 8th year of his age."—Thach. Med. Biog. A.] CRA MBE. (Koanfin, the name given by Dioscori-

des, Galen, and others, to the cubbage; the derivation is uncertain.) The name of a genus of plants in the Linnman system. Class, Tetradynamia; Order, Siticulosa. Cabbage.

CRAMBE MARITIMA. The systematic name for the sea-cole, or sea-kale. A delicious vegetable when forced and blanched. It is brought to table about has a delicate flavour, and is much es-Christmas. teemed. Like to all oleraceous plants, it is flatulent and watery. CRAMP. (From krempen, to contract. Germ.)

See Spasm.
CRANESBILL. See Geranium.
Cranesbill, bloody. See Geranium sanguineum.
CRA'NIUM. (Kpaytov, quasi καραντον; from καρα,
the head.) The skull or superior part of the head.

(From κραινω, to perform.) A name

CRANTE RES. (From κραινω, to perform.) A name given to the dentes sapientite and other molares, from their office of masticating the food.

CRAPULA. (Κραιπυλα.) A surfeit; drunkenness. CRA'SIS. (From κεραννυμι, to mix.) Mixture. A team applied to the immours of the body, when there is such an admixture of their principles as to constitute a healthy state: hence, in dropsies, scurry, δcc. the crashs, or healthy mixture of the principles of the blood is said to be destroyed.

occ. the crass, or heatiny insture of the principles of the blood, is said to be diestroyed. CRA's PEDON. (Κρασπεδον, the hem of a garment; from κρεμαν, to hazg down, and πεδον, the ground.) A relaxation of the uvula, when it hangs down in a thin, hong membrane, like the hem of a garment. CRASSAME'NTUM. (From crassus, thick.) See

Blood. CRA'SSULA. (From crassus, thick: so named from the thickness of its leaves.) See Sedum tele-

(From κρα7ος, strength: so called CRATÆ'GUS. from the strength and hardness of its wood.) The wild service-tree, of which there are many, are all species of the genus *Prunus*. The fruits are most of them

(So called from Cratevas, a Greek CRATEVA. (So called from Cratevas, a Greek arthemodical of Dumas. A muscle of the clottis, that physician, celebrated by Hippocrates for his knowledge of plants. The name of a genus of plants. Class, Polyandria; Order, Monogymia. Crateva marmelos. The fruit is astringent while themointeen of Dumas. A muscle of the glottis, that unripe: but when ripe, of a delicious taste. The bark opens the rima glotted is a little, and by pulling back

gotten Washington again stepped forth to redress the lof the tree strengthens the stomach, and relieves hy-

pochondriac languors.

CRATI'CULA. (From crates, a hurdle.) The bars or grate which covers the ash-hole in a chemical fur-

CRATON, John, called also CRAFFTHEIM, was born at Breslaw in 1519. He was intended for the church, but preferring the study of medicine, went to graduate at Padua, and then settled at Breslaw. But after a few years he was called to Vienna, and made physician and autic coansellor to the Emperor Ferdinand I.: which offices also he held under the two succeeding emperors, and died in 1585. His works were nume-rous: the principal arc, "A Commentary on Syphilis;" "A Treatise on Contagious Fever;" another on "The-rapeutics;" and seven volumes of Epistles and Con-

Creum of tartar. See Potassæ supertartras.
CREMA'STER. (From κρεμαω, to suspend.) A
muscle of the testicle, by which it is suspended, and muscle of the testicle, by which it is suspended, and drawn up and compressed, in the act of cotion. It arises from Poupart's ligament, passes over the spermatic chord, and is lost in the cellular membrane of the scrotum, covering the testicles.

Cre'mnus. (From κρημνος, a precipice, or shelving place.) 1. The lip of an ulcer.

2. The labium pudendi.

CRE'MOR. 1. Cream. The oily part of milk which rises to the surface of that limit mixed with a surface of the surface of that limit mixed with a surface of the s

CRE'MOR. 1. Cream. The oily part of milk which rises to the surface of that liquid, mixed with a little curd and serum. When churned, butter is obtained. See Matk.

2. Any substance floating on the top, and skimmed

CRENATUS. Crenate or notched, applied to a leaf or petal, when the indentations are binnted or rounded, and not directed toward either end of the leaf; as in Glecoma hederacea. The two British spe-

rounded, and not directed toward either end of the leaf; as in Glecoma hederacea. The two British species of Sakvia are examples of doubly crenate leaves. The petals of the Linumus usitatissimum are crenate. CRE PITUS. (From creps, to make a noise.) A puff of little noise. The word is generally employed to express the pothognamonic symptoms of air being collected in the cellular membrane of the body; for when air is in these cavities, and the part is pressed, a little cracking noise, or crepitus, is heard.

CRESTITUS LUPI. See Lyagopulon bouista.

Crescent shoped. See Leaf.

CRESS. There are several kinds of cresses eaten at the table, and used nedicinally, as antiscorbutics.

at the table, and used medicinally, as antiscorbutics.

Cress, water. See Sisymbrium nasturtium aquati-

CRE'TA. Chalk. An impure carbonate of lime. See Creta præparata.

See Creta praparata.

Creta praparata.

Creta praparata.

Creta praparata.

Creta praparata.

Creta praparata.

Take of chalk a pound; add a little water, and rub it to a fine powder. Throw this into a large vessel full of water; then shake them, and after a little while pour the still turbid liquor into another vessel, and set it by that the powder may subside it lastly, pouring off the water, dry this powder. Prepared chalk is absorbent, and possesses antacid qualities: it is exhibited in form of electuary, mixture, or bolus, in pyrosis, cardialgia, diarrhæa, acidities of the primæ viæ, rachitis, crusta lactea, &c. and is said by some to be an antidote against white arsenic.

Cretaceous acid. See Carbonic acid.

Cretaceous acid. See Carbonic acid.

Cretaceous acid. See Carbonic acid.

Cretaceous del See Carbonic acid.

Cretaceous acid. See Cristonic acid.

Cretaceous acid. See Carbonic acid.

sis in Dr. Good's Nosology: a disease allecting energy the head and neck; countenance vacant and straid; mental faculties feeble, or idotic; sensibility obtuse, mostly with enlargement of the thyroid gland. CRIBRIFORM. (Cribriformis; from cribrum, a sieve, and forma, likeness; because it is perforated like a sieve.) Perforated like a sieve. See Ethmoid

CRICHTONITE. A mineral named after Dr. Crichton, which Jameson thinks is a new species of titaneum ore. It is of a splendent velvet black colour. CRICO. Names compounded of this word belong to muscles which are attached to the cricoid cartilage.

CRICO-ARYTENOIDEUS LATERALIS. Crico-lateri arithenoidien of Dumas. A muscle of the glottis, that

the arytemoid cartilage, stretches the ligament so as to | that their terminations, whether salutary or fatal, hap-

CRICO-PHARYNGRUS. See Constrictor pharungis

CRICO-THYPOIDEUS. Crico-thyroidien of Dumas. The last of the second layer of muscles between the os hyoides and trunk, that pulls forward and depresses CRICO-THYPOIDEUS. the thyroid cartilage, or elevates and draws backwards

the cricoid cartilage.

CRICOI'D. (Cricoides; from κρικος, a ring, and

CRICOL'D. (Cricoldes; from κρικος, a ring, and catos, resemblance.) A round ring-like cartilage of the larynx is called the cricoid. See Larynx.

CRIMNO'DES. (From κριμνον, brail.) A term applied to urine, which deposites a sediment like bran. CRIMA'TUS. (From κριμνον, the lily.) A term given to a suffumigation mentioned by P. Ægineta, composed

chiefly of the roots of lilies.

CRI'NIS. The hair. See Capillus.

CRINOMY'RON. (From κρινον, a lily, and μυρον, ointent.) An ointment composed chiefly of lilies.

ment. An ointment composed chiefly of times.

CRINONES. (From crinis, the hair.) Malis gordii of Good. Morbus pilaris of Horst. Malis a crinonibus of Elmuller and Sauvages. Collections of a sebaceous fluid in the cutaneous follicles upon the face and breast, which appear like black spots, and when pressed out, look like small worms, or, as they are commonly called, maggots.

CRIO'GENES. An epithet for certain troches, mentioned by P. Ægineta, and which he commends for cleansing ulcers.

CRIPSO'RCHIS. (From κρυπ]ω, to conceal, and φχις, a testicle.) Having the testicle concealed, or not yet descended from the abdomen into the scrotus.

CRI'SIS. (From κρινω, to judge.) The judgment. The change of symptoms in acute diseases, from which the recovery or death is prognosticated or judged of.

CRISPATU'RA. (From crispo, to curl.) A spas-modic contraction or curling of the membranes and

CRISPUS. Curied. Applied to a leaf, when the border is so much more dilated than the disk, that it necessarily becomes curled and twisted; as in Malva

crispa, &c. CRI STA. CRISTA. (Quasi cerista; from kepas, a horn, or carista; from kapa, the head, as being on the top of the head.) Any thing which has the appearance of a crest, or the comb upon the head of a cock. 1. In anatomy it is thus applied to a process of the ethmoid bone, christa galli, and to a part of the nympha;-crista clitoridis.

2. In surgery, to excrescences, like the comb of a

2. In surgery, to excrescences, the the comb of a cock, about the anus.

3. In botany, to several accessary parts or appendages, chiefly belonging to the anthera of plants; as the pod of the Hedysarum crista galli, &c.

Crista galli. An eminence of the ethnoid bone, so called from its resemblance to a cock's comb. See

Ethmoid bon

CRISTATUS. Crested. Applied to several parts

of plants. CRI'THAMUM. See Crithmum.

CRI'THE. ( $K\rho_l\theta_{ll}$ , barley.) A stye or tumour on the eyelid, in the shape and of the size of a barley-

CRITHE'RION. (From κρινω, to judge.) The same

CRI THMUM. (From κρινω, to secrete; so named from its supposed virtues in promoting a discharge of

from its supposed virtues in promoting a discharge of the urine and menses.) Samphire or sea-feinmel.

CRITHMUM MARITHMUM. The Linnean name of the samphire or sea-fennel. Crithmum of the pharmacopetas. It is a low perennial plant, and grows about the sea-coast in several parts of the island. It has a spicy aromatic flavour, which induces the common people to use it as a pot-herb. Pickled with vinegar and spice, it makes a wholesome and elegant condiment, which is in much esteem.

CRITHO DES. (From κρίθη, barley, and ειδος, re-cemblance.) Resembling a barley-corn. It is applied to small protuberances.

CRITICAL. (Criticus; from crisis; from κευνο,

CRUTICAL. (Criticus; from crisis; from keiro, to judge.) Determining the event of a disease. Many physicians have been of opinion, that there is something in the nature of fevers which generally determine the control of the critical crit mines them to be of a certain duration; and, therefore,

pen at certain periods of the disease, rather than at others. These periods, which were carefully marked by Hippocrates, are called critical days. The critical days, or those on which we suppose the termination of continued fevers especially to happen, are the third, fifth, seventh, ninth, eleventh, fourteenth, seventeenth, and twentieth

CROCIDEXIS. (From κροκιδιξω, to gather wool.) Floccilation. A fatal symptom in some diseases, where the patient gathers up the bed-clothes, and seems to pick up substances from them.

CRO'CINUM. (From κροκος, saffron.) oil, myrrh, and saffron. A mixture of

CROCO'DES. (From κροκος, saffron; so called from the quantity of saffron they contain.) A name of some old troches.

CROCOMA'OMA. (From κροκος, saffron, and μαγμα, the thick oil or dregs.) A troch made of oil of saffron

and spice

CROCUS. (Kporos of Theophrastus. The story of the young Crocus, turned into this flower, may be seen in the fourth book of Ovid's Metamorphoses. Some derive this name from kpoky or kpoky, a thread; whence the stamens of flowers are called kpokdes, others, again, derive it from Coriscus, a city and mountain of Chicia, and others from crokin, Chald.)

1. The name of a genus of plants in the Linnæan system. Class, Triandria: Order, Monogynia. Saffron.

2. The pharmacopæial name of the prepared stig-

mata of the saffon plant. See Crocus satious.

3. A term given by the older chemists to several preparations of metallic substances, from their resemblance: thus, Crocus martis, Crocus veneris.

CROCUS ANTIMONII. A sulphuretted oxide of antimony.

CROCUS GERMANICUS. See Carthamus. CROCUS INDICUS. See Curcuma. CROCUS MARTIS. Burnt green vitriol.

CROCUS METALLORUM. A sulphuretted oxide of antimony.

CROCUS OFFICINALIS. See Crocus sativus.
CROCUS SARACENICUS. See Carthamus.
CROCUS SATIVUS. The systematic name of the

corolla tubo longissimo, of Linneus. Saffron plant. Crocus:—spatha univablei radicali, corolla tubo longissimo, of Linneus. Saffron has a powerful, penetrating, diffusive smell, and a warm, pungent, bitterish taste. Many virtues were formerly attributed to this medicine, but little confidence is now should be a first the Estimated College direct as tinguary. placed in it. The Edinburgh College directs a tincture, and that of London a syrup of this drug.

CROCUS VENERIS. Copper calcined to a red powder.

CROMMYON. (Παρα το τας κορας κυευν, because it makes the eyes wink.) An onion.

CROMMYONNEGMA. (From κοραμυον, an onion, ofus, acid, and ρηγνυμι, to break out.) An acid eructation accompanied with a taste resembling onions.

CROONE, WILLIAM, was born in London, where he settled as a physician, after studying at Cambridge. In 1659, he was chosen rhetoric professor of Gresham In 1659, he was chosen thetoric professor of Gresham College, and soon after register of the Royal Society, which then assembled there. In 1662, he was created doctor in medicine by mandate of the king, and the same year elected fellow of the Royal Society, and of the College of Physicians. In 1670, he was appointed lecturer on anatomy to the Company of Surgeons. On his death, in 1684, he bequeathed them 1904; his books on Medicine to the College of Physicians, as also the profits of a house, for Lectures, to be read annually, on Muscular Motion; and donations to seven of the colleges at Cambridge, to found Mathematical Lectures. He left several papers on philosophical subjects but his only ombication was a small tract, "De jects, but his only publication was a small tract, "De Ratione Motus Musculorum."

CROSS-STONE. Harmotome; Pyramidal zeolite.

CROSS-STONE. Harmotome; Fyramidal Zeoule. A crystallized grayish-white mineral, harder than fluor-spar, but not so hard as apatite, found only in mineral veins and agate balls in the Hartz, Norway,

and Scotland.

CROTALUS. The name of a genus of reptiles CROTALUS HORRIDUS. The rattle-snake; the stone out of the head of which is erroneously said to be an antidote to the poison of venomous animals. A name

also of the Cobra de capella, the Coluber naje of Linnæus.

CROTA'PHICA ARTERIA. The tendon of the tempo-

CROTAPHI'TES. (From κρο7αθος, the temple.)

See Temporalis.

100

See Temporass.

Chota philum. (From κροζεω, to pulsate; so named from the pulsation which in the temples is eminently discernible.) Crotaphos. Crotaphus. A pain in the

CRO'TAPHOS. See Crotaphium.

CROTCHET.

See Crotaphiam.
A curved instrument with a sharp hook to extract the fœtus.

CROTON. (From κρο7εω, to beat.)

1. An insect called a tick, from the noise it makes by

beating its head against wood,
2. A name of the ricinus or castor-oil berry, from its likeness to a tick.

Inteness to a tick.

3. The name of a genus of plants in the Linnwan system. Class, Monwaia; Order, Monadelphia. Croton Benzoe. See Styrax benzoe. Croton Castarilla. The systematic name of the plant which atfords the Castarilla bark. Castarilla; Chocarilla; Eluthera; Fluteria. The bark comes to us in quills, covered upon the outside with a rough, whitsh matter, and brownish on the inner side, exwhitish matter, and brownish on the inner side, exhibiting, when broken, a smooth, close, blackish-brown surface. It has a light agreeable smell, and a moderatery bitter taste, accompanied with a considerable aromatic warmth. It is a very excellent tonic, adstringent, and stomachic, and is deserving of a more general use than it has hitherto met with.

CROTON LACCIFERUM. The systematic name of the plant upon which gum-lac is deposited. See

CROTON TIGLIUM. The systematic name of the tree which affords the pavana wood, and tiglia seeds. Croton-folius ovatus glabris acuminatis serratis, caule arboreo of Linnaus.

1. Pavana wood. Lignum pavanæ; Lignum pava-um; Lignum moluccense. The wood is of a light num; Lagaum moluccense. The wood is of a light spongy texture, white within, but covered with a grayish bark: and possesses a pungent, caustic taste, and a disagreeable smell. It is said to be useful as a

purgative in hydropical complaints.

Grana tilli. Grana tiglii. The Grana tiglia. grana tigha are seeds of a dark gray colour, in shape very like the seed of the recenus communis. They abound with an oil which is far more purgative than castor-oil, which has been lately imported from the East Indies, where it has been long used, and is now admitted into the London pharmacopæia. One drop proves a drastic purge, but it may be so managed as to become a valuable addition to the materia me-

[The oil of Croton is the produce of a shrub or arborescent plant well known to botanists, and the oil when taken into the stomach acts as a powerful ca-thartic. The shrub belongs to the Class Monweia, and

Order, Monadelphia, of Linnæus's sexual system.

Persoon enumerates 82 species of this genus of plants. The specific character of the Tilgium is, that plants. The specific character of the Engrands, "The leaves are ovate, smooth, acuminated, serrated, and the stem arborescent." It is a native of the East and the stem arborescent, and analysis shades. Ceylon, and the Moluccas are particularly quoted as affording tins species of Croton. It is also well known in Am-boyna and Batavia, and, indeed, generally through the distant east. Several parts of the plant possess medicinal virtue.

1. Radix, the root, or pulvis radicis croti. The powdered root of Croton is a drastic cathartic, when exhibited in the small quantity of even a few grams, on which account it has been considered by the Asiatics as a grand remedy for dropsy, upon the same principle by which the operation of scammony and gamboge is

2. The Wood of the Croton. Lignum croft tiglii. This is also efficacious, for in small doses it acts as a sudorific, by relaxing the pores of the skin; while in

large ones it purges severely.
3. The Leaves. Folia croti tiglii. Pulvis foliorum tiglii siccatorum. The dried leaves when powdered are reputed an antidote against the bite of that formidable and venomous serpent the Cobra de Capello.

4. The Seeds. Semina vel grana croti tiglii. They are the part of the plant most known and employed in They are of a date at least as old as the medicine.

age of Serapion, one of the earliest physicians of Araba who wrote on the Materia Medica, and he flourished about 1000 years ago, or probably in the 8th century. When they were introduced into Europe long since, they were known by the name or "Molucca grains or seeds, and as the grains or seeds of Tihum or Tiglium.

It appears that they were freely administered, not merely for the purpose as a cathartic, but for the ac-complishment of mischievous and deleterious ends. It batch physician and botanist, that a dose of four grams had been administered for the working of destruction by women who wished to kill their husbands. Though the seeds were freely administered at that age and after, the extreme violence of their operation seems to have induced a very unfavourable opinion of them. This no doubt arose from injudicious nion of them. This he doubt after the highest doses; as, under similar circumstances, the digitatis purpures, or purple fox-glove, had undergone a similar fate. It had been frequently administered, and was even popular, but from the bad consequences of injudictous prescription, was condemned as noxious, and dictions prescription, was conductanted as including was neglected as unfit for use. So, cubebs (amonum cubeba) were once in use, then discontinued from a supposed want of power, and latterly revived and rendered fashionable. It nevertheless appears, that molucca grains are still used in the East Indies as an

5. The baked Sceds. Semina tosta vel furno cocta. The baked or roasted seeds of the Croton Tiglium. By these operations the shell or hull was removed, the seed rendered capable of being powdered, and, according to Ainslie's Materia Medica of Hindostan, the acrimonious and vehement qualities very much mo-

derated.

The medicinal history of this plant seems to have rested a long time. At length, however, as the seeds were replete with oil, it occurred to somebody to exwere repiete with oil, it occurred to someology to ex-press it, and this oil was known to the celebrated pharmacians, Lemery and Geofficy. Yet it lay dor-mant, until a revival was made by Mr. E. Conwell, of the English East India Company's service on the Ma-dras Establishment. Having prescribed the Croton oil for many years with advantage, he sent a parcel of

it to London for experiment.

6. The Oil of Tiglium, or oil of Croton. Oleum, croti tiglii expressum. The oil has a yellowish hue, but a faint smell, and an acrimonious taste. these qualities have some variation, caused probably by the degree of heat, or torrefaction, employed in the

process for obtaining it.

7. Gustus oler tiglii. Touching the tongue with the oil. It is reported, that in some constitutions the mere application of a particle to the tongue, is sufficient to produce a cathartic effect, thereby evincing an extraordinary power of sympathy between the organ of taste and the alimentary canal. There are, how-ever, very striking analogies to illustrate its action. Tobacco, for example, in the form of a segar, applied Tobacco, for example, in the form of a segar, applied to the month of some persons, moves the intestines to evacuation. A drop of the Prussic acid applied to the mouth of a rat causes instant death. The poison of a rattlesnake, as witnessed by Dr. Mitchill, infused in a wound, destroys the life of a rat, or other small animal in an exceedingly short time. It is reported, that a man who had been in the habit of using enemas, had been haugher to, a stool by the sight of a clystee. had been brought to a stool by the sight of a clyster

8. Pills of the Oil of Tiglium. Pillulæ olei tiglii, A single drop, or at most two, is a sufficient dose. safe method is to take the pills, to contain each one drop, with a crumb of bread; or, for more expeditious practice, the prescriber may prepare them containing twodrops. He can thus administer with an assurance that the laxative effect will be produced without the fear of exciting any alarming commotion. In cases where there is an aversion to taking medicines, and where the public and continued to the describer. where the bulk and repetition of the doses are objecwhich lighly recommend it. The quantity of even haif a drop, or in other words half a grain, will frequently move the intestines to discharge; and the effect, which is generally speedy, more resembles that of the saline catharties than the other drastics, such as elaterium, gamboge, and scammony.

9. Tincture of the Oil of Tiglium. Solutio olei

tiglii ir alcohol. Chemistry has proved that this oil Is composed of two principal constituent parts: 1. A fixed vd. resembling that of the olive, destinute of cathartic qualities; and, 2. An aerul pargative practiple, in which its virtue resides. The proportions are 

The latter has been denominated Tiglin, in the modern nomenclature. Alkohol is capable of decomposing nomenclature. Alkohol is capable of decomposing this native oil; the tiglin being dissolved with a minute quantity only of the fixed oil, and the rest of it left un-combined. This discovery enables us to form a tincture upon a well-ascertained principle. It is accordingly proposed to form the tincture, by adding two drops of the oil (as it comes to us) to a fluid drawkin of rectified spirit. After digesting long enough to secure the union between the spirit and the tiglin, the tincture work he filtered. Vol. as a dwild on working as the must be filtered. Yet, as a fluid so volatile as the spirit will suffer some loss by evaporation, it is calculated that half a fluid drachm of the tincture is equal to a drop and an half of the oil. It is found that the alkohol does not impair the cathartic power of the tiglia. This solution may therefore be exactly apportioned to the nature of the disorder, and the wish of the physician, and thus be regulated with the greatest exact-If taken in quantity corresponding to the number of drops decomposed, experience has decided that the same effects were produced as by the same quantity of undecompounded and entire oil

of undecompounded and entire oil.

An article so expensive as this in comparison with other fixed oils, holds out a strong temptation for frand by adulteration. This has been predicted to a considerable extent by mixing it with the cheaper kinds. A method, however, has been proposed for detecting such vitiation by Dr. Nimmo, by means of alkotecting such vitiation by Dr. Ammin, by means of airo-hol, a phial, a balance, and an evaporating process, of which an abstract will be found in the Pharmacologia of Dr. Paris, vol. 2, p. 338. New-York edit by Dr. Ives. Tais writer's opinion is, on the whole matter, "that this oil does not appear to produce any effects which cannot be commanded by other drastic purgatives. Its value depends upon the facility with which it may be administered .- Notes from Dr. Mitchill's

Lectures on Mat. Med. A ]

CROTON TINCTORIUM. The systematic name of the lacmus plant. Croton—foliis rhombeis repandis, caproules pendulis, caule herbucco, of Linnens. Buetta carulea. This plant yields the Succus heliotropii; Lacmus seu torna; Laceu carulea; Litmus. It is much used by chemists as a test.

CROTO'NE. (From κρογον, the tick.) A fungus on trees produced by an insect like a tick; and by metaphor applied to tumours and small fungous excres-

cences on the periosteum.

CROTOPUS. (From KROTOS, pulsus.) Painful pulsa-

CROTOPHIUM. (From Kgoros, the pulse.) Painful

CROUP. See Synanche.

CROUSIS. (From κρουω, to beat, or pulsate.) Pul-

CROU'SMATA. (From κρουω, to pulsate.) Rheums

CROUSMAYA. (From reports of pursuity) functions from the head.
CROWFOOT. See Ranunculus.
Crousjoot-craneshil. See Georgian pratense.
CRUCIAL. (Crucialis; from cras, the leg.) I.
Cross-like. Some parts of the body are so called when they cross one another, as the crucial ligaments

2. A name of the mugweed or crosswort.
CRUCIA LIS. See Ornicial.
CRUCIBLE. (Cruciabulum; from crucio; to tormen: so named, because, in the language of old chemists, metals are tormented in it, and tortured, to yield up their powers and virtues.) A chemical vessel made mostly of earth to bear the greatest heat.

They are of various shapes and composition.
CRUCIFORMIS. Cross-like. Applied to leaves, flowers, &c., which have that Juape.
CRU DITAS. (From crudus, raw.) It is applied to modigested substances in the stomach, and formerly

to humours in the hody unprepared for concection.
CRUICKSHANK, WILLIAM, was born at Ediaburgh, in 1746. He was intended for the church, and

made great proficiency in classical learning; but, showing a partiality to incidence, he was placed with a surgeon at Glasgow. In 1771, he came to London, and was soon after made librarian to Dr. William Hunter; and, on the secession of Mr. Hewson, became assistant, and then joint becturer in anatomy, with the Doctor. He contributed largely to enrich the Museum, particularly by his currors injections of the lympathic Doctor. He contributed largely to enrich the Museum, particularly by his currons injections of the lympathic vessels. He published, in 17-6, a work on this subject, which is highly valued for its forrectness. In 17-6, he communicated to the Royal Society an Account of the Regeneration of the Nexues; and the same year published a parapidet on his mistic Perspiration; and in 17-97, an Account of Appearances in the Ovaria of Rabbits in different Stages of Pregnancy. He died in 1830. in 1800.

CRU'NION. (From kpouvos, a torrent.) A medicine mentioned by Aëtius, and named from the violence of

its operations as a directic.
CRU'OR. (From κρυος, frigus, it being that which appears like a coagulum as the blood coels.) The red part of the blood. See Blood.

CRU'RA. The planal of crus.

CRURA CLITORIDIS. See Clitoris.

The roots of the

CREA MEDITIES OFLORENTIES. The roots of the medulia obtongata.

CISTAZE U.S. (From erus, a leg; so named, because it covers almost the whole foreside of the upper part of the leg or thigh.) Creardis. A muscle of the feg, situated on the forepart of the thigh. It arises, fleshy, from between the two trochanters of the os femoris, but nearer the lesser, firmly adhering to most of the forepart of the os femoris; and is inserted, tendinous, into the upper part of the patella, belind the rectus. Its use is to assist the vasti and rectus muscles in the extension of the leg. in the extension of the leg.

in the extension of the leg. GRURAL. (Cruralis; from crus, the leg.) Belonging to the crus, leg, or lower extremity.
CRURALIS. See Cruraus.
CRURALIS. See Cruraus.
CRUS. 1. The leg.
2. The root or origin of some parts of the body. from their resemblance to a leg or root; as Crura cerebri, Crura cerebelli; Crura of the diaphragm, &c.

CRU'STA. 1: A shell.

A scab.
 The scum or surface of a fluid.

3. The seum or surface of a fluid.

CRUSTA LACTEA. A disease that mostly attacks some part of the face of infants at the breast. It is known by an eruption of broad pustules, full of a glutinous liquor, which form white scabs when they are ruptured. It is cured by mineral alteratives.

CRUSTA VILLOSA. The inner coat of the stomach and intestines has been so called.

CRUSTALLA. (Dim of crusta, a shell.) A discoloration of the flesh from a bruise, where the skin is en-

tire, and covers it over like a shell.

CRUSTUMINA TUN. (From Crustuminum, a town where they grew.) 1. A kind of Catherine pear.
2. A rob or electuary made of this pear and apples

boiled up with honey.

CRYNO'DES: (From κρυος, cold.) An epithet for a fever, wherein the external parts are cold. CRYOLITE. A white or yellowish brown mineral, composed of alumina, soda, and fluoric acid. It is curious and rare, and found hitherto only at West Creations. Greenland

Greenland.

CRYOPHORUS. (From κρυσς, cold, and φερω, to bear.) The frost-bearer, or carrier of cold; an elegant instrument invented by Dr. Wollaston, to demostrate the relation between evaporation at low temperatures, and the production of cold.

CRYPSO RCHIS. (From κρυπ')ω, to conceal, and ορχις, a testicle.) A term applied to a man whose testicles are hid in the belly, or have not descended into the scrotling.

the scrotum. (From κουπτω, to hide.) The little CRY PTA. (From κουπτω, to hide.) The little rounded appearances at the end of the small arteries of the cortical substance of the kidneys, that appear as if formed by the artery being convoluted upon it-

CRYPTOGAMIA. (From κουπτω, to conceal, and The twenty-fourth and last class CHYPTOSAMIA.

The twenty-fourth and last class of the sexual or Linear system of plants, containing several mancrons genera, in which the narts essential to their fructification have not been sufficiently ascertained to admit of their being referred to the other CRY CRY

cession of one of the testicles.

2. See Crypsorchis.
CRYSTAL. See Crystallins.
CRYSTALLINE. (Crystallinus; from its crystal-like appearance.) Crystal-like.
CRYSTALLINE LENS. A tentiform pellucid part of the eye, onclosed in a membranous capsule, called the capsule of the crystalline lens, and situated in a peculiar depression in the anterior part of the vitreous hu-Its use is to transmit and refract the rays of mour. Its use light. See Eue.

CRYSTALLIZATION. (Crystallizatio; from crystallus, a crystal.) A property by which crystallizable bodies tend to assume a regular form, when lizable bodies tend to assume a regular form, when placed in circumstances favourable to that particular disposition of their particles. Almost all immerals possess this property, but it is most entinent in saline substances. The circumstances which are favourable to the crystallization of salls, and without which it cannot take place, are two: 1. Their particles must be divided and separated by a fluid, in order that the corresponding faces of those particles may meet and unite. 2. In order that this unon may take place, the fluid which separates the integrant parts of the salt must be gradually carried off, so that it may no longer divide them.

[" Crystallization, in the most limited extent of the Programments on the most finited extent of the term, is that process by which the particles of bodies unite if such a manner as to produce determinate and regular solids. But it is equally true, that those minerals, which possess a foliated or fibrous structure, are the products of crystallization, under circumstances which have rendered the process more or less imperfect, and prevented the appearance of distinct and regular form.

regular forms.

The ancients believed crystallized quartz (rock rie ancients believed crystalized quarte (together congealed by exposure to intense code; and accordingly applied to it the term κρυγαλλος, which signified ice. Hence the etymology of the word crystal. Now, as a beautiful regularity of form is one of the most striking properties of crystallized quartz, the name crystal has been extended to all mineral and

the name crystal has been extended to all mineral and other inorganic substances, which exhibit themselves under the form of regular geometrical solids.

A crystal may therefore be defined an inorganic body, which, by the operation of affinity, has assumed the form of a regular solid, terminated by a number of plane and polished faces. The corresponding faces all crystals, which possess the same variety of form, of an crystals, when possess the same ratery of ratery of and belong to the same substance, are inclined to each other in angles of a constant quantity. This constancy of angles remains, even in those cases where the faces themselves, from some accidental causes, have changed their dimensions or number of sides. Transparency, though many crystals possess it in a greater or less degree, is not a necessary property. But plane surfaces, bounded by right lines, are so essential to the crystalline form, that their absence decidedly indicates imperfection in the process of crystallization. The lustre and smoothness of the faces tallization. The lustre and smoothness of the fa

Cleav. Min. A.]
CRYSTA'LLUS. (Crystallus, i. m.; from κρυος CRYSTA'LLUS. (Crystallus, i. m.; from kovos, cold, and 5ch\and sch\and sch\and to contract: i. a. contracted by cold into ice.) A crystal. "When fluid substances are suffered to pass with adequate slowness to the solid state, the attractive forces frequently arraage their ultimate particles, so as to form regular polyhedral figures or geometrical solids, to which the name of crystals has been given. Most of the solids which compose the mineral crust of the earth are found in the crystallized state. Thus grainte consists of crystals of quartz, felspar, and micn. Even mountain massee like clay-slate, have a regular tabulated form. Perfect mobility among the corpuscles is essential to crystallization. The chemist produces it either by the good of the solid substances are supported by the course fusion, or by solution in a liquid. When the neous fusion, or by solution in a liquid. When the temperature is slowly lowered in the former case, or the liquid slowly abstracted by exporation in the lat-ter, the attractive forces resume the ascendency, and arrange the particles in symmetrical forms. Mere ap-proximation of the particles, however, is not alone suf-

class. It is divided by Linnaus into four orders, Filelices, Musei, Alga, and Fingi.

Cayso Rents. Kpuropogis. 1. A retraction or retroession of one of the testicles. ficient for crystallization. A hotsaturated saline solu-tion, when screened from all agitation, will contract by cooling into a volume much smaller than what it occupies in the solid state, without crystallizing. Hence the molecules must not only be brought within a ce-tain limit of each other, for their concreting into crys-tais; but they must also change the direction of their poles, from the fluid collocation to their position in the solid state.

This reversion of the poles may be effected, 1st, By This reversion of the poies may contact of any part of the fluid with a point of a solid, contact of any part of the fluid with a point of a solid, of similar composition, previously formed. 2d, Vibratory motions communicated, either from the atmosphere or any other moving body, by deranging, how-ever slightly, the flufd polar direction, will instantly determine the solid polar arrangement, when the ba-lance had been rendered nearly even by previous re-moval of the laterstifial fluid. On this principle we revalue the racessinal mine. On this principle we explain the regular figures which particles of dust or iron assume, when they are placed on a vibrating plane, in the neighbourhood of electrized or magnetized bodies. 3d, Negative or resmous voltaic electricity instantly determines the crystalline arrangement, while nistanty determines in Cycounteracts it. Light also favours crystallization, as is exemplified with camphor dissolved in spirits, which crystallizes in bright and redissolves in gloomy weather

It might be imagined, that the same body would always concrete in the same, or at least in a similar crystalline form. This position is true, in general, for the talline form. This position is true, in general, for the saits crystallized in the laboratory; and on this uniformity of figure, one of the principal criteria between different saits depends. But even these forms are liable to many modifications, from causes apparently slight; and in nature we find frequently the same chemical substance crystallized in forms apparently very dissimilar. Thus, carbonate of lime assumes the form of a rhomboid, of a regular hexaêdral prism, of a solid terminated by 12 scalenc angles, or of a dodeca-fiedron with pentagonal faces, &c. Bisulphuret of iron or martial pyrites produces sometimes cubes and sometimes regular octohedrons, at one time dodeca-sometimes regular octohedrons, at one time dodecasometimes regular octohedrons, at one time dodecahedrous with pentagonal faces, at another icosahedrons with triangular faces, &c.

While one and the same substance lends itself to so While one and the same substance terms used to so many transformations, we meet with very different substances, which present absolutely the same form. Thus fluste of lime, muriate of soda, subjuiret of iron, sulphuret of lead, &c. crystallize in cubes, under certain circumstances; and in other cases, the same minimal control of the discountry of the discountry of the discountry. nerals, as well as sulphate of alumina and the diamond, assume the form of a regular octohedron.

Romé de l'Isle first referred the study of crystallization to principles conformable to observation. ranged together, as far as possible, crystals of the same nature. Among the different forms relative to each species, he chose one as the most proper, from its simplicity, to be regarded as the primitive form; and by supposing it truncated in different ways, he deduced the other forms from it, and determined a material. the other forms from it, and determined a gradation, a series of transitions between this same form and that of polyhedrons, which seem to be still further removed of polyneurous, which seem to be an induce reinforce in from it. To the descriptions and figures which he gave of the crystalline forms, he added the results of the mechanical measurement of their principal angles, and showed that these angles were constant in each váriety

The illustrious Bergmann, by endeavouring to penetrate to the mechanism of the structure of crystals, considered the different forms relative to one and the considered the different forms relative to one and the same substance, as produced by a superposition of planes, sometimes constant and sometimes variable, and decreasing around one and the same primitive form. He applied this primary idea to a small number of crystalline forms, and verified it with respect to a variety of calcareous spar by fractures, which enabled him to ascertain the position of the nucleus, or of the primitive form, and the successive order of the lawners. primitive form, and the successive order of the lamine primitive form, and the successive oract of the laminac covering this nucleus. Bergmann, however, stopped here, and did not trouble himself either with deter-mining the laws of structure, or applying calculation to it. It was a simple skefch of the most prominent point of view in mineralogy, but in which we see the hand of the same master who so successfully filled up

In the researches which Hadly undertook, about the same period on the structure of crystals, he proposed

combining the form and dimensions of integrant molecules with simple and regular laws of arrangement, and submitting these laws to calculation. This work and anothering these laws to Education.

produced a mathematical theory, which he reduced to analytical formula, representing every possible case, and the application of which to known forms leads to valuations of angles, constantly agreeing with observation."—Ure's Chem. Diet.

2. An eruption over the body of white transparent

pustules

[11] CRYSTALLOGRAPHY. Of the physical properties of minerals, no one is so important in itself, and extensive in its influence and application, as that by which crystals or regular solids are produced. To in vestigate and describe these solids is the object of crystals. tallography, and constitutes, without doubt, the most interesting branch of mineralogical research."—Cleav.

interesting branch of interesting course when the fibres are so called from their pectinated course.

Cress. Krag. A comb or rake. Ctenes, in the plural number, implies those teeth which are called incisores, from their likeness to a rake.

CIBE, ORE. Hexaêdral olivenite. Wurfelerz of Wagner. A mingral argeniate of fron, of a pistachio

Werner. A mineral arseniate of iron, of a pistachiogreen colour.

CUBE SPAR. See Anhydrite. CUBEB. See Piper cubeba. CUBEBA. (From cybabah, Arab.) See Piper subcha.

CUBITÆUS EXTERNUS. An extensor muscle of the

fingers. See Extensor digitorum communis CUBITEUS INTERNUS. A flexor muscle of the fin-

gers. See Flexor sublimis, and profundus.
CUBITAL. (Cubitalis; from cubitus, the forearm.) Belonging to the forearm.

CUBITAL ARTERY. Arteria cubitalis; Arteria ulnaris. A branch of the brachial that proceeds in the forearm, and gives off the recurrent and interosseals, and forms' the palmary arch, from which arise branches going to the fingers, called digitals.

Nervus cubitalis; Nervus ul-CUBITAL NERVE. naris. It arises from the brachiul plexus, and proceeds along the ulna.

CUBITALIS MUSCULUS. An extensor muscle of the

ngers. See Extensor CU'BITUS, (From

CU BITUS. (From cubo, to lie down; because the ancients used to lie down on that part at their meals.)

1. The forearm, or that part between the elbow and

2. The larger bone of the forearm is called os cubiti.

See Ulna. CUBOVDES OS.

CUBOTDES OS. (From xubos, a cube or die, and cubos, likemess.) A tarsal bone of the foot, so called from its resemblance.

CUCKOW FLOWER. See Cardamine.

CUCUBALUS. The name of an herb mentioned by Pliny. The name of a gents or family of plaats in the Linnwan system. Class, Decandria; Order Try-

CUCUBALUS BACCIFERUS. The systematic name of the berry-bearing chick-weed, which is sometimes

used as an emollient poultice. CUCUBALUS BEHEN. The systematic name of the

Beken efficinarum, or spatting poppy, formerly used as a cordial and alexipharmic.

CUCULLA'RIS. (From enculie, a hood: so named, because it is shaped like a hood.) See Tra-

Applied to a leaf, CUCULLATUS. Hooded. when the edges need in the lower part, and expand in the upper, forming a sheath or hood, of which the genus Sarcaccnia are an example; to the nectary of the aconite tribe, &c.

CUCUTLLUS. 1. A hood.

CUCULIUS. 1. A hood.
2. An odoritorous cap for the head.
CUCUMBER. See Cucumis.
Cucumber, bitter. See Cucumis colocynthis.
Cucumber, syncring. See Ahmordica claterium.
Cucumber, vald. See Ahmordica claterium.
CUCUMBS. (Cucumis, mis. m.; absocuemer, ris.;
quasi curremeres, from their curvature.) The cucumber. 1. The name of a genus of plants in the Linnaran system. Class, Monacia; Order, Syngenesia.
The cucumber.
2. The pharmacopæial name of the garden cucumber. See Cucumis satterns.

S 2

CUCIMIS AGRESTIS. See Momerdica claterium.
CUCIMIS ASIMNUS. See Momerdica claterium.
CUCIMIS COLONYNTHIS. The systematic name for
the officinal bitter apple. Colocyathes; Albandalo of
the Arabians. Coloquenteda. Bitter apple; bitter
gourd; bitter cucimiber. The fruit, which is the me
dicinal part of this plant, Cucimis—folies multificite,
pomis globosis glabris, of Linnaus, is imported from
Turkey. Its spongy membranous medulla or rith is piones Staboasis glabras, of Linneus, is imported from Turkey. Its sponcy membranous medulia or pith, is directed for use; it has a nauscous, acrid, and in-tensely bitter taste; and is a powerful irritating ca-thartic. In desse of ten or twelve grains, it operates with great vehemence, frequently producing violent when the product tooks and disminus the order. with great venemence, a queriery producing vinering gripes, bloody stools, and disordering the whole sys-tem. It is recommended in various complaints, as tem. It is recommended in various companies, as worms, mania, dropsy, epilepsy, &c.; but is seldom resorted to, except where other more mild remedies have been used without success, and then only in the form of the extractum colocynthidis compositum, and the pilulæ ex colocynthide cum aloë of the pharmaco-

Occasions melo. The systematic name of the melon plant. Melo. Musk melon. This fruit, when ripe, has a delicious refrize-taing taste, but must be eaten moderately, with pepper, or some aromatic, as all this class of fruits are obnoxious to the stomach, producing spasms and colic. The seeds possess muci-

laginous qualities.

CUCUMIS SATIVUS. The systematic name of the cucould sarrive. The systematic name of the cu-cumber plant. Cucumis. Cucumis—foliorum angu-lis rectis; pamis oblongis seabris of Linneus. It is cooling and aperient, but very apt to disagree with bilious stomachs. It should always be eaten with pepper and oil. The seeds were formerly used medicinally.

CUCUMS SYLVESTRIS. See Momordica elaterium. CU'CUPHA. A hood. An odoriferous cap for the head, composed of aromatic drugs. CUCU'RBITA. (A currentate, according to Scalieger, the first syllable being deutbled; as in Cacula, Populus, &c.) 1. The name of a genus of plants in the Linnwan system. Class, Monacia; Order, Syngenesia. The pumpion.

2. The pharmacopæial name of the common gourd.

2. The prainted peps.

See Cucarbita peps.

3. A chemical distilling vessel, shaped like a gourd.

Cucuratra currentlus. The systematic name of
the water-melon plant. Citrellus; Juguac; Jace
brasilientibus; Tetranguria. Sicilian citrul, or water-melon. The seeds of this plant, Cacarbita—felias
ter-melon. The seeds of this plant, Cacarbita—felias ter-micon. The secusion this plath, cerearing multiparties of Limanus, were formerly used medicinally, but now only to reproduce the plant. Watermedon is cooling and somewhat nutritious; but so soon begins to ferment, as to prove highly noxious to soon begins to ferment, as to prove highly noxious to some stomachs, and bring on spasms, diarrhoas, cholera, colics, &c.

CUCURBITA LAGENARIA. The systematic name of the bottle-gourd piant. See Cacarbita peps.
CUCURBITA PEPS. The systematic name of the common pumpion or gourd. Cucurbita. The seeds of this piant, Cucurbita—folias lobatis, pomis lambus, are used indifferently with those of the Cacarbita laggeare used manner may wint mose of the Caracteria tage-naria—folis subungulatis, tomentosis, basi subtus bi-glandulosus; pomis lignosis. They contain a large proportion of oil, which may be made into emulsions;

but is superscaled by that of sweet almonds.

Cucurbitacræ. (From cucurbita, a gourd.) The
name of an order of Linnæus's Fragments of a Natural Method, consisting of plants which resemble the

CUCURBITINUS. A species of worm, so called from its resemblance to the seed of the gourd. See

CUCURBITULA. (A diminutive of cucurbita, a gourd's so called from its shape.) A cupping-glass.

CUCURBITULA CRUENTA. scarification to procure blood. A cupping-glass, with

CUCURBITULA CUM FERRO. scarification to draw out blood. CUCURBITULA SICCA. A cupping-glass without

scarification.

CUEMA. (From κωω, to carry in the womb.)
The conception, or rather, as Hippoctates signifies by
this word, the complete rudiments of the focus.

Cum cue. A sort of stranguary, or rather heat of

CULILA WAN. See Laurus culilawan.

CULI'NARY. (Culinarius, from culina, a kitchen.)
Any thing belonging to the kitchen, as salt, pot-herbs,

CULLEN, WILLIAM, was born at Lanark, Scot-CULLEN, WILLIAM, was born at Lanark, Sectiand, in 1712, of respectable, but not wealthy parents. After the usual school education, he was apprentiged to a surgeon and apothecary at Glasgow, and then, made several voyages, as surgeon, to the West Indies. He afterward settled in practice at Hamilton, and formed a connexion with the celebrated William Hunter; but their business being scanty, they agreed to pass a winter alternately at some university. Culen went first to Edinburgh, and attended the classes so diligently, that he was soon after able to commence teacher. Hunter came the next winter to London, and engaged as assistant in the dissectiors room of Dr. and engaged as assistant in the dissecting-room of Dr. William Douglas, who was so pleased with his assiduity and talent, as to offer him a share in his lectures: but though the partnership with Cullen was thus dis-solved, they continued ever after a friendly corres-pondence. Cullen had the good fortune, while at Hapondence. Comen had the good fortune, while at I milton, to assist the Duke of Argyle in some chemical pursuits: and still more of being sent for to the Duke of Hamilton, in a sudden alarming illness, which he speedily relieved by his judicious treatment, and gained the entire approbation of Dr. Clarke, who afterward arrived. About the same time he married the daughter of a neighbouring elergyman, who bore him several children. In 1746 he took the degree of doctor in medicine, and was appointed teacher of chemistry at Glasgow. His talents were peculiarly fitted for this office; his systematic genius, distinct enunciation, lively manner, and extensive knowledge of the subject. rendered his lectures highly interesting. In the mean time his reputation as a physician increased, so that he was consulted in most difficult cases. In 1751, he he was consulted in most amount cases. In 1701, he was chosen professor in medicine to the university; and, five years after, the chemical chair at Edinburgh was offered him, on the death of Dr. Plummer, which was too advantageous to be refused. He soon became was too advantageous to be refused. He soon became equally popular there, and his class increased, so as to exceed that of any other professor, except the anatomical. This success was owing not only to his assi-duity, and his being so well qualified for the office, but duty, and his being so wen quanted to the kindness which he also in a great measure to the kindness which he showed to his pupils, and partly to the new Views on the Theory of Medicine, which he occasionally intro-duced into his lectures. He appears also, about this duced into his lectures. He appears also, about this time, to have given Clinical Lectures at the Infirmary. On the death of Dr. Alston, Lecturer on the Materia Medica, he was appointed to succeed him: and six years afterward, jointly with Dr. Gregory, to lecture on the Theory and Practice of Medicine, when he resigned the Chemical Chair to his pupil, Dr. Black. Dr. Gregory having died the following year, he continued the Medical Lectures alone, till within a few months of his death, which happened in February 1780, in his seventy-seventh year; and he is said, even at the last, to have shown no deliciency in his delivery, nor in his memory, being accustomed to fecture from short notes. to have shown no deficiency in his delivery, nor in his memory, being accustomed to lecture from short notes. His Lectures on the Materia Medica being surreptitiously printed, he obtained an injunction against their being issued until he had corrected them, which was accomplished in 1752: but they were atterward much improved, and appeared in 1789, in two quarto volumes. Fearing a similar fate to his Lectures on Medicine, he published an outline of them in 1784, in four volumes, octavo, entilled "First Lines of the Practice of Physic." He wrote also the "Institutions of Medicine," in one volume, octavo: and a "Letter to Lord Catheart, on the Recovery of drowned Persons" But his most celebrated work is his "Synopsis Nosologie, Methodica," successively improved in different logiæ Methodicæ," successively improved in different editions; the fourth, published in 1785, in two octavo volumes, contains the Systems of other Nosologists till that period, followed by his own, which certainly, as a practical arrangement of diseases, greatly surpasses

CULMUS. Culm. Straw. The stem of grasses, rushes, and plants nearly allied to them. It bears both leaves and flowers, and its nature is more easily understood than defined. Its varieties are,

erstood than denned. Its varieties are,

1. Culmus teres, round; as in Carez uliginosa.

2. C. tetragonus; as in Festuca ovina.

3. C. triangularis; as in Eriocaulon triangulare.

4. C. capillaris; as in Scirpus capillaris.

5. C. prostratus; as in Agrostis canina.

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6. C. repens; as in Agrostis stolonifera.

C. nudus, as in Carex montana 8. C. enodis, without joints; as in Juneus congle meratus.

9. C. articulatus, jointed; as in Agrostis alba. 10. C. geniculatus, bent like the knee; as in Aloecurus geniculatus.

It is also either solid or hollow, rough or smooth, sometimes bairy or downy, scarcely woolly.

Culmifera. Plants which have smooth soft.

CULPEPER, Nicholas, was the son of a clergy-man, who put him apprentice to an apothecary; after man, who pur thin apprentice to an aponecary; after serving his time, he settled in Spitalfields, London, about the year 1642. In the troubles prevailing at that period, he appears to have favoured the Puritans; but his decided warfare was with the College of Physicians, whom he accuses of keeping the people in ignorance, like the Popish clergy. He therefore published rance, like the Popish clergy. He therefore published a translation of their Dispensary, with practical remarks; also an Herbal, pointing out, among other matters, under what planet the plants should be gathered; and a directory to midwives, showing the method of cusuring a healthy progeny, &c. These works were for some time popular. He died in 1654.

CULTER. (From colo, to cultivate.)

1. A knife or shear.
2. The third lobe of the liver is so called from its supposed resemblance.

(From κουλος.) The anus or funda-U'LUS.

ment.

CUMANUS. See Piper cubeba.

CUMIN. See Cuminum.

CUMINUM. (From xυω, to bring forth; because it was said to cure sterility.)

1. The name of a genus of plants in the Limmean system. Class, Heptandria; Order, Digymia. The

2. The pharmacopæial name of the cumin plant. See Cuminum cyminum.

CUMINUM ETHIOPICUM. A name for the ammi verum. See Sison ammi.

The systematic name of the CUMINUM CYMINUM. cumin plant. Cuminum; Faniculum orientale. A native of Egypt and Ethiopia, but cultivated in Sicily and Malta, from whence it is brought to us. The seeds of cumin, which are the only part of the plant in use, have a bitterish taste, accompanied with an aromatic flavour, but not agreeable. They are generally preferred to other seeds for external use in discussing indolent tumours, as the encysted scrofulous, &c. and give name both to a plaster and cataplasm in the phar-

CUNEATOR SUTURA. The suture by which the or sphenoides is joined to the or frontis.

CUNEIFORMIS. (From cuncus, a wedge, and forma, likeness.) Cunciform, wedge-like. Applied to bones, leaves, &c. which are broad and abrupt at the extremity. See sphenoid bone; Tarsus, and Carture of the current of the curr

CUNE OLUS. (From cuneo, to wedge.) A crooked tent to put into a fistula.

CUNE GUS. (110th cutter) to reason to reason.

["CUNTLA. Pennyroyal. The plant called pennyroyal, in England, is a species of mint, Mentha puterayal, in England, is a species of mint, Mentha putergium; while the American plant, which bears the same common appellation, belongs to the genus Cunta, of Linnarus, and Hedcoma, of Persoon. American pennyroyal is a warm aromatic, possessing a pungent flavour, which is common to many of the labiate plants of other genera. Like them, it is heating, carminative, and diaphoretic. It is in popular repute as an emmenagogue. "-Big. Mat. Med. A.]

Cup of the flaver. See Calsy.

CUPLL. (Kuppel, a cup, German.) Copella; Catellus cinereus; Cineritium; Patella docimastica; Testa probatrix, exploratiza, or docimastica. A shallow earthen vessel like a cup, made of phosphate of lime, which suffers the baser metals to pass through it, when exposed to heat, and retains the pure metal.

when exposed to heat, and retains the pure metal.

when exposed to lient, and retains the pure metal. This process is termed cupellation.

CUPELLATION. Cupellatio. The purifying of perfect metals by means of an addition of lead, which, at a due, heat, becomes vitrified, and promotes the vitrification and calcination of such imperfect metals as may be in the mixture, so that these last are carried off in the fusible glass that is formed, and the perfect metals are left nearly pure. The name of this opera-

tion is taken from the vessels made use of, which are called cupels.

CU'PHOS. Koudos. Light. When applied to aliments, it imports their being easily digested; when to

ments, it imports their being easily digested; when to distempers, that they are mild.

[CUPPINS. Topical bleeding. "This is done by means of a scarificator, and a glass, shaped somewhat like a bell. The scarificator is an instrument containing a number of lancets, sometimes as many as twenty, which are so contrived, that when the instrument is applied to any part of the surface of the body, ment is applied to any part of the surface of the body, and a spring is pressed, they suddenly start out, and make the necessary punctures. The instrument is so constructed, that the depah, to which the lancets penetrate, may be made greater or less, at the option of the practitioner. As only small vessels can be thus opened, a very inconsiderable quantity of blood would be discharged, were not some method taken to promote the evacuation. This is commonly done with a cunning datase, the air within the capatry of which is mole the evacuation. This is commonly usual evacuations cupping glass, the air within the cavity of which is rarefied by the flame of a little lamp, containing spirit of wine, and furnished with a thick wick. This plan is preferable to that of setting on fire a piece of tow, Is preferable to that of setting on fire a piece of low, dipped in this fluid, and put in the cavity of the glass. The larger the glass, if properly exhausted, the less pain does the patient suffer, and the more freely does the blood flow. When the mouth of the glass is placed over the scarifications, and the rarefied air in it becomes condensed as it cools, the glass is forced down on the skin, and a considerable suction takes place."— Cooper's Surg. Dict. A.]
CUPRE'SSUS. (So called; απο του κυειν παρισους

rous ακρεμονας, because it produces equal branches.)

Cypress.

1. The name of a genus of plants in the Linnwan system. Class, Monacia; Order, Monadelphia. The cypress-tree.

The pharmacopæial name of the cypress-tree.

See Cupressus sempervirens.

See Capressus sempervirens. The systematic name of the cupressus of the shops. Cupressus—folicis imbricatis squamis quadrangulis, of Linneus; called also cyparissus. Every part of the plant abounds with a bitter, aromatic, terebinthinate fluid; and is said to be a remedy against intermittents. Its wood is extremely durable, and constitutes the cases of Egyptian munmies. tian mummies.

CUPRI AMMONIATI LIQUOR. Solution of ammoni ated copper. Aqua cupri ammoniati of Pharm. Lond. 1727, and formerly called Aqua sapphirina. Take of ammoniated copper, a drachm; distilled water, a pint. Dissolve the ammoniated copper in the water, and filter the solution through paper. This preparation is employed by surgeons for cleansing foul ulcers, and disposing them to head.

posing them to heal.

CUPMI RUBIGO. Verdigris.

CUPMI RUBIGO. Verdigris.

CUPMI SULPTINS. Vitriolum cupri; Vitriolum ceruleum; Vitriolum Romanum; Cuprum vitriolum.

Sulphate of copper. It possesses acrid and styptic qualities; is esteemed as a tonic, emetic, astringent, and escharotic, and is exhibited internally in the cure. of dropsies, harnorrhages, and as a speedy emetic. Externally it is applied to stop harmorrhages, to harmorrhoids, leucorrhœa, phagedænic ulcers, proud flesh, and

condylomata. CUPRUM. (Quasi as Cyprium; so called from the island of Cyprus, whence it was formerly brought.)

See Copper

See Cuprum ammonia-CUPRUM AMMONIACALE.

CUPRUM AMMONIATUM. Cuprum ammoniacale. Ammoniated copper. Ammoniacal sulphate of copper Take of sulphate of copper, half an ounce; subcur bonate of ammonia, six drachms; rub them together in a glass mortar, till the effervescence ceases; then In a giass mortar, till the enervescence ceases; then dry the ammoniated copper, wrapped up in bibulous paper, by a gentle heat. In this process the carbonic acid is expelled from the ammonia, which forms a triple compound with the sulphuric acid and oxide of copper. This preparation is much milder than the sulphate of copper. It is found to produce tonic and astringent effects on the human body. Its principal astringent effects on the human body. Its principal internal use has been in epilepsy, and other obstinate spasmodic diseases, given in doses of half a grain, gradually increased to five grains or more, two or three times a day. For its external application, see Cupri ammoniati liquor.

CUPTULA. An accidental part of a seed, being a rough calyculus, surrounding the tower part of a gland,

rough carycomes, surrounding the lower part of a group, as that of the oak, of which it is the cup.

Cura a avanacka. A decection of oats and succory roots, in which a little nitre and sugar were dissolved, was formerly used in fevers, and was thus

CU'RCAS. See Jatropha curcas. CU'RCULIO. (From Karkarah, Hebrew.) The throat and the aspera arteria.

and the aspera arteria.

[Also the name of a genus of coleopterous insects, according to Linnawa's system. A.]

CU REVEM. See Cheledonium majus.

CURCUMA. (From the Arabic curcum or hercum.)

Turmeric. 1. The name of a genus of plants in the Linnawan system. Class, Monandria; Oider, Mono-

The pharmacopæial name of the turmeric-tree.

See Curcuma longa.

CURCUMA LONGA. The systematic name of the CURCUM LONG. The systematic name of the turneric plant. Crocus Indicas; Terra marria, Cannacorus radice crocea; Curcuma rotunda; Mayella; Kua kaha of the Indians. Curcuma—Jobis lanceolatis; nerus lateralibus numerossimis of Linneus. The Arabians call every root of a saffron colour by the name of curcum. The root of this plant is imported here in its dried state from the East Indies, in various forms. Externally it is of a pale yellow colour, wrinkled, solid, ponderous, and the inner substance of wrinked, sould, ponderous, and the liner substance of a deep saffron or gold colour: its odour is somewhat fragrant; to the taste it is bitterish, slightly acrid, exciting a moderate degree of warmth in the mouth, and on being chewed, it thinges the saliva yellow. It is an ingredient in the composition of Carry pender, is valuable as a dying dru and firmishes a chemical test of the presence of uncombined alkalies. It is now very seldom used medicinally, but retains a place in our pharmacoperias.

CURD. The coagulum, which separates from milk,

cold. The congulum, when separate from ming, upon the addition of acid or other substances.

["Curette. (French.) An estrument shaped like a minute spoon, or scoop, invented by Daviel, and used in the extraction of the catarate, for taking away any opaque matter, which may remain behind the pupil, immediately after the crystalline has been taken out?"—Commerc Surg. Dict. A. 1

pn, immediately after the crystalline has been taken out."—Copper's Surg. Dict. A.]
Curled leaf. See Leaf.
CU'RMI. (From repay, to mix.) Ale. A drink made of barley, according to Dioscorides.
CURRANT. See Ribes.
CU'RSUMA. Curtuma. The Ranuhculus ficaria of

Linnæus.

The root of the Gentiana purpurea of Lin-CURSU'TA.

CURVA'TOR COCCYGIS. A muscle bending the coc-

x. See Coccygeus. CURVATUS. (From curvus, a curve.) Curvate, bent. Applied to the form of a pepo or gourd seed-

vessel; as in Cucumi flexuosus.

CUSCU'TA. (According to Linnæus, a corruption from the Greek Karvlas, or Kadvlas, which is from the Arabic Chessuth, or Chasuth.) Dodder. 1. The name of a genus of plants in the Linnæan system. Class, Tetrandria; Order, Digymia.

2. The pharmacopeial name of dodder of thyme.

See Cuscuta epithymum.

CUSCUTA EPITHYMUM. The systematic name of CUSCOTA EPTHYNUM. The systematic name of a dodder of thyme. Epythymum. Cuscuta—folius cessilibus, quinquifais, bracteis obvallatis. A parasitical plant, possessing a strong disagreeable smell, and a pungent laste, very durable in the mouth. Recommended in melanchoita, as cathartics. Cuscuta Evropea. The systematic name of a species of dodder of thyme. Cuscuta—floribus sessitions of the property of the control of the cuscuta—floribus sessitions of the cuscuta—floribus of the cuscuta—flo

species of nodder of thyme. Caseas James Libras, of Linneus.
CUSPARIA. The name given by Messrs. Humboldt and Bonpland to a genus of plants in which is the tree we obtain the Angustura back from.
CusParia Ferriteoga. This is the tree said to yield the back called Angustura.—Cortex cuspariac, yield the back called Angustura.—Cortex cuspariac, yield the bark caned Angustura in South America. Its and imported from Angustura in South America. Its external appearances vary considerably. The best is not fibrous, but hard, compact, and of a yellowish-brown colour, and externally of a whitish hue. When

reduced into powder, it resembles that of Indian rhu- the mixture of the ore with lead, by which litharge is reduced into powder, it resembles that of Indian rhubarb. It is very generally employed as a febringe, tonic, and adstringent. While some deny its virtue in curing intermittents, by many it is preferred to the Peruvian bark; and it has been found userbit in diarrhea, dyspepsia, and scrofula. It was thought to be the bark of the Bracon antidysenterion, or ferruginea. Wildenow suspected it to be the Magnalia plumiers; but Humboldt and Bonpland, the celebrated travelers in South America, have ascertained it to belong to a tree not before known and which they recognize to detree not before known, and which they promise to describe by the name of Casparia pibrigaga.
CUSPIDATUS. (From cuspis, a point.) 1. Four of the teeth are called cuspidati, from their form. See

Treath.

2. Sharp-pointed. Applied to leaves which are tipped with a spine, as in this tes. See Long.

CUSPIS. (From caspa, Chaldean, a shelling bone, with which spears were formedly pointed.) 1. The glans penis was so called, from its likeness to the point a spear. 2. The name of a bandage.

Co'stos oculi. An instrument to fix the eye during an operation.

CUTA'NEUUS. (From cutis, the skin, and ambulo, to walk.) 1. A cutaneous worm.
2. Scorbutic itching. (Cutaneus; from cutis, the skin.)

Belonging to the skin.

CUTA KEUS MYSCULYS. See Platysma myoides.
CUTICLE. Caticula. (A diminutive of catics, the
insensible membrane, of a white colour, that covers
and defends the true skiu, with which it is connected by the hairs, exhaling and inhaling vessels, and the rete mucosum.

rete mucosum.

CUTICULA. See Cuticle.

OU'TIS. (Cutis, tis. form.) See Skin.

CUTIS ANSERINA. The rough state the skin is sometimes thrown into from the action of cold, or other cause, in which it looks like the skin of the goose.

CUTIS VERA. The true skin under the cuticle.

OYANIA. The trivial name in Good's arrangement of diseases of a species called Exangia cyanta, or blue skin. Class, Hamatica; Order, Struma.

CYANIC ACID. Acidum cyanicum. See Prussic

CYANITE. Kyanite. Disthene of Hauy. A mineral of a Berlin blue colour, found in India and Eu-

Tope. CYANOGEN. (From κυανος, blue, and γινομαι, to form) Production of blue. See Prassine. CY'ANUS. (Κυανος, ownlean, or sky-blue; so called from its colour.) Blue-buttle. See Centauria

cyanus. CY'AR. (From  $\kappa \varepsilon \omega$ , to pour out.) 1. The lip of a

2. The eye of a needle.
3. The orifice of the internal ear, from its likeness to the eye of a needle.

CYA'SMA. Spots on the skin of pregnant women.
CYATHI'SCUS. (From κυαθος, a cup.) The hollow
part of a probe, formed in the shape of a small spoon,

as an ear-picker.

as an ear-picker.

Cy bitos. See Cubitus.

Cy bitos. See Cubitus.

Cy bitos. See Cubitus.

Cy borobes. See Cubitus.

Cy Borobes. See Cubitus.

Cy Borobes. See Cubitus.

Cy CAS. (Kuka; of Theophrasius. The name of a palm, said to grow in Ethiopia.) The name of a genus of plants, one of the Palma pinnatifolia, of Linnaeus; but afterward removed by him to the felices.

Cycas cracinalis. The systematic name of a palm-tree which affords a sago, called also Sagus; and the Philippines. The same sabstance is also brought from the West Indies, but it is inferior to that brought from the paim, in the sistands of save, bottects, and the Finder pines. The same substance is also brought from the West Indies, but it is inferior to that brought from the East. Sago becomes soft and transparent by boiling in water, and forms a light and agreeable liquid, much recommended in febrile, phthisical and calculous disorders, &c. To make it paiatable, it is customary to add to it, when boiled or softened with water, some lemon juice, sugar, and wine.

O'C'CEUM. (From kuraw, to mix.) Cyceon. A mixture of the consistence of pap.

made.
CY-CLAMEN. (From κυκλος, circular; either on account of the round form of the leaves, or of the roots.) Cyclamen.

1. The name of a genus of plants in the Linnæan system. Class, Pentandria; Order, Monogynia.

2. The pharmacopæial name of the sow-bread. See

Cyclamen Europæum Cyclamen Europaum.

Cyclamen Europaum.

The systematic name of the sow-bread. Arthanta of the pharmacopeias. The root is a drastic purge and errhine; and by the common people it has been used to procure abortion. Cycli'scus. (From κυκ'ρς, a circle.) An instrument in the form of a half-moon, formerly used for

scraping the rotten bones.

Cyclismus. (From κυκλος, a circle.) A lozenge. Cyclopho'ria. (From κυκλος, a circle, and φερω, to bear.) The circulation of the blood, or other fluids

Cyclo'pron. (From  $\kappa\nu\kappa\lambda\delta\omega_n$  to surround, and  $\omega\psi$ , the eye.) The white of the eye. CY'CLOS. Cyclus. A circle. Hippocrates uses this word to signify the checks, and the orbits of the

Ofclus METASYNCRITICUS. A long protracted course of remedies, persisted in with a view of restoring the particles of the body to such a state as is neces-

sary to health. CYDO'NIA. (From Cydon, a town in Crete, where the tree grows wild.) The quince-tree. See Pyrus

CYDONIUM MALUM. The quince. See Pyrus cy-

CYE'MA. (From κυω, to bring forth.) Parturition.
CYL'CHNIS. (From κυλίζ, a cup.) A gallipot or
vessel to hold medicines.
Cylindrical Leaf. See Leaf.
CYLINDRUS. (From κυλίω, to roll round.) A
cylinder. A tent for a wound, equal at the top and

bottom.

CYLLO'SIS. (From κυλλοω, to make lame.) A tibia

CYLUS SIS. (FIGH KONOG, to make lame.) In Hippocrates, it is one affected, with a kind of luxation, which bends outwards, and is hollowed inward. Such

which bends outwards, and is hollowed inward. Such a defect in the tibia is called Cyllosis, and the person to whom it belongs, is called by the Latins Varus, which term is opposed to Valgus.

CYMA. A cyme. A species of inflorescence of plants, consisting of several flower-stalks, all springing from one centre or point, but each stalk is variously subdivided; and in this last respect, a cyme differs essentially from an umbel, the subdivisions of the latter heins formed like its primary divisions of several essentially from an under, the subdivisions of the latter being formed like its primary divisions, of several stalks springing from one point. This difference is of great importance in nature. The mode of inflorescence agrees also with a corymbus in general aspect; but in the latter the primary stalks have no common centre, though the partial ones may sometimes be umbellate, which last case is precisely the reverse of a

From its division into primary stalks or branches, it

is distinguished into,

1. Trifld; as in Sedum acre.
2. Quadrifd; as in Crassula rubens.
3. Tripartite, having three less cymes; as in Sambuene ebulus.

4. Quinquipartite; as in Sambucus nigra: 5. Sessile, or without stalk; as in Gnaphalium fru-

Comus sanguinea and sericea afford examples of the

Cyma nuda.
Cyma To'des. Is applied by Galen and others to an

TYMATO'DES. Is applied by Galen and others to an unequal fluctuating pulse.

CY'MBA. (From kyp665, hollow.) A boat, pinnace, or skiff. A bone of the wrist is so called, from its supposed likeness to a skiff. See Naviculare oe.

CYMBIFORMIS. (From cymba, a boat or skiff, and forma, likeness.) Skiff or boat-like. Applied to the seeds of the Calendula officinalis.

CYMNOYM. See Cuminum.

CYMOPHANE. See Chrysoberyl.

CYMOSUS. Having the character of a cyme. Applied to agregate flowers.

CYNA NCHE. (From kwp, a dog, and ayxw, to sufficiate or strangle: so called from dogs helps said to sufficiate or strangle: so called from dogs helps said to

ixture of the consistence of pap.

CYNA'NCHE. (From κυων, a dog, and αγχω, to CY'CIMA. (From κυκαω, to mix.) So called from suffocate, or strangle; so called from dogs being said to

be subject to it.) Sore throat. A genus of disease in the class Pyrexix, and order Phlegmasix of Cullen. It is known by pain and reduces of the throat, attend-A genus of disease in

ed with a difficulty of swallowing and breathing.

The species of this disease are:— 1. Cynanche trachealis; Cynanche laryngea; Suffo-I. Cynancae trachealis; Cynanche laryngea; Suffo-catio striulula; Angina pernicusas; Asthma infant-um; Cynanche striulula; Morbus strangulatorius; Catarrhus suffocatius; Barbadensis; Angina poly-posa sive membranacea. The croup. A disease that mostly attacks infants, who are suddenly seized with a difficulty of breathing and a crouping noise: it is an inflammation of the mucous membrane of the trachea that induces the secretion of a very tenacious coagu-lable lymph, which lines the trachea and bronchia, and impedes respiration. The croup does not appear and impedes respiration. The croup does not appear to be contragious, whatever some physicians may think to the contrary; but it sometimes prevails epidemically. It seems, however, peculiar to some families; and a child having once been attacked, is very liable to its returns. It is likewise peculiar to young children, and has never been known to attack a person arrived at the age of puberty.

The application of cold seems to be the general

cause which produces this disorder, and therefore it occurs more frequently in the winter and spring, than in the other seasons. It has been said, that it is most prevalent near the sea-coast; but it is frequently met with in inland situations, and particularly those which

are marshy

are marshy.

Some days previous to an attack of the disease, the child appears drowsy, inactive, and frefful; the eyes are somewhat suffused and heavy; and there is a cough, which, from the first, has a peculiar shrill sound; this, in the course of two days, becomes more violent and troublesome, and likewise more shifli. Every fit of coughing agitates the patient very much; the face is flushed and swelled, the eyes are protuberant, a general tremor takes place, and there is a kind of convenience of the course of th of convulsive endeavour to renew respiration at the close of each fit. As the disease advances, a constant difficulty of breathing prevails, accompanied sometimes with a swelling and inflammation in the tonsils, times with a swelling and inflammation in the tonsils, uvula, and velum pendulum palati; and the head is thrown back, in the agony of attempting to escape suffocation. There is not only an unusual sound produced by the cough, (something between the yelping and barking of a dog.) but respiration is performed with a hissing noise, as if the trachen was closed up by some slight spongy substance. The cough is generally dry; but if any thing is spit up, it has either a purulent appearance, or seems to consist of films resembling portions of a membrane. Where great nausea and frequent retchings prevail, coagulated matter see and frequent retchings prevail, coagulated matter of the same nature is brought up. With these sympof the same nature is brought up. With these symptoms, there is much thirst, an uneasy sense of heat over the whole body, a continual inclination to change from place to place, great restlessness, and frequency of the pulse

In an advanced stage of the disease, respiration becomes more stridulous, and is performed with still greater difficulty, being repeated at longer periods, and with greater exertions, until at last it ceases entirely.

The croup generally proves fatal by suffocation, induced either by spasm affecting the glottis, or by a quantity of matter blocking up by the trachea or bronchla; but when it terminates in health, it is by a reso-Intion of the inflammation, by a ceasing of the spasms, and by a free expectoration of the matter exuding from the trachea, or of the crusts formed there.

The disease has, in a few instances, terminated fatally within twenty-four hours after its attack; but it more worth.

it more usually happens, that where it proves fatal, it runs on to the fourth or fifth day. Where considerable portions of the membranous films, formed on the surface of the trachea, are thrown up, life is sometimes protracted for a day or two longer than would other-

wise have happened

Dissections of children who have died of the croup, have mostly shown a preternatural membrane, lining the whole internal surface of the upper part of the trachea, which may always be easily separated from the proper membrane. There is likewise usually found a good deat of mucus, with a mixture of pus, in the trachea and its ramifications.

The treatment of this disease must be conducted on the trachea and its ramifications.

the strictly antiphlogistic plan. It will commonly be

proper, where the patient is not very young, to begin by taking blood from the arm, or the jugular vein; several lecches should be applied along the forepart of the neck. It will then be right to give a nauseating emetic, piecaeusnha with tartarized antimony, or with startics, disphoretics, digitalis, &c. Large blisters ought to be applied near the affected part, and a discharge kept up by savine cerate, or other stimulant dressing. Mercury, carried speedily to salivation, has in several instances arrested the progress of the discase, when it appeared proceeding to a fatal termination. As the inflammation is declining, it is very important that free expectoration should take place; this may be promoted by nauscasing medicines, by inhaling steam, and by stimulating gargles; for which the decoction of senna is particularly recommended. Where there is much wheezing, an occasional emetic may relieve the patient considerably, and under symptoms of threatening suffocation, the operation of bronchotomy has sometimes saved life.—Should fits of spasmodic difficulty of breathing occur in the latter periods of the disease, opium joined with diaphoretics would be most likely to do good.

2. Cymanchetons/tlaves. The inflammatory quinsy, called also angina inflammatoria. In this complaint, the inflammation principally occupies the tonsils; but often extends through the whole the patient.

the fauces, so as essentially to interrupt the speech, respiration, and deglutition of the patient.

respiration, and deglutition of the patient.

The causes which usually give rise to it are, exposure to cold, either from sudden vicissitudes of weather, from being placed in a partial current of air, wearing damp linen, sitting in wet rooms, or getting wet in the feet; all of which may give a sudden check to perspiration. It principally attacks those of a full and plethoric habit, and is chiefly confined to cold climates, occurring usually in the spring and autumn; whereas the ulcerated sore throat chiefly attacks those of a west irrightly habit and it must nevel and a meaning the cold and a proper support of the cold of of a weak irritable habit, and is most prevalent in warm climates. The former differs from the latter likewise in not being contagious. In many people there seems to be a particular tendency to this disease; as from every considerable application of cold it

is readily induced.

An inflammatory sore throat discovers itself by a difficulty of swallowing and breathing, accompanied by a redness and tumour in one or both tonsits, drynessof the throat, foulness of the tongue, lancinating pains in the parts affected, a frequent but difficult exerction of mucus, and some small degree of fever. As the disease advances, the difficulty of swallowing and breathease advances, the difficulty of swallowing and breathing becomes greater, the speech is very indistinct, the
dryness of the throat and thirst increases, the tongue
swells and is incrusted with a dark (ur, and the pulse
is full and frequent. In some cases, a few white,
sloughy spots are to be observed on the tonsits. If the
inflammation proceeds to such a height as to put a
total stop to respiration, the face will become livid, the
pulse will sink, and the patient will quickly be destronged. stroved

The chief danger arising from this species of quinsy is, the inflammation occupying both tonsils, and proceeding to such a degree as to prevent a sufficient quantity of nourishment for the support of nature from being taken, or to occasion suffocation; but this seldom nemg tanen, or to occasion suffocation; but this seldom happens, and its usual termination is either in resolution or suppuration. When proper steps are adopted, it will in general readily go off by the former. Where the disease has proved fatal by suffocation, little more than a highly inflamed state of the parts affected, with some morbid phenomena in the head, have

been observed on dissection.

been observed on dissection.

This is usually a complaint not requiring very active treatment. If, however, the inflammation run high, in a tolerably strong and plettoric adult, a moderate quantity of blood should be drawn from the arm, or the jugular vein: but still more frequently leeches will be required; or scarifying the tonsits may afford more effectual relief. An emetic will often be very beneficial, sometimes apparently check the progress of the complaint; bikewise cathacties must be employed, diaphoreties, and the general antiphlogistic regimen. A bister to the throat, or behind the neck, sometimes has a very excellent effect; but in milder cases, the liminary of the control of has a very excellent effect: but in milder cases, the linihas a very externment electron mentum ammoniae, or other rubefacient application, mentum ammoniae, or other rubefacient application, applied every six or eight hours, and wearing flannel 279

round the throat, may produce a sufficient determination from the part affected. The use of proper gargles generally contributes materially to the cure. If there he much tension and pain in the fauces, a solution of nitrate of potassa will be best; otherwise dilute acids, a weak solution of alam, &c. Should the disease product the part of a weak solution of again, &c. Should the disease pro-ceed to supportation, warm emollient gargles ought to be employed, and perhaps similar external applications may be of some service; but it is particularly impor-tant to make an early opening into the abscess for the discharge of the pus. When deglutition is prevented discharge of the pus. When deglutition is prevented by the tumefaction of the tonsils, it is recommended to exhibit mutritious clysters; and when sufficiation is threatened, an emetic or inhaling ether may cause a runture of the absects, or this may be opened; but if relief be not thereby obtained, bronchotomy will become necessary.

3. Oynambe pharyngea. This species is so called when the pharyngea identificated. Dr. Wilson, in his Treatise on Febriic Diseases, includes in his definition of cynanche tonsillaris, that of cynanche pharyngea. These varieties of cynanche differ considering the considering that the considering the considering that the cons This species is so called ryngea. These varieties of cynanche differ considerably when they are exquisitely formed. But the one is seldom present in any considerable degree, without being attended with more or less of the other. Dr. Cullen declares, indeed, that he never saw a case of true cynanche pharyngea; that is, a case in which the inflammation was contined to the pharynx; it constantly spread in a greater or less degree to the tonsils and neighbouring parts. Besides, the mode of treatment is, in almost every instance, the same in both cases. And if we admit the cynanche pharyngea to be a distinct variety, we must admit another, the cynanche csophagea; for inflammation frequently attacks the esophagus, and is sometimes even conlined to it. to it.

4. Cynanche parotidea. The mumps. on the cheek and under the jaw, extending over the neck, from inflammation of the parotid and other salivary glunds, rendering deglutition, or even respiration, sometimes difficult, declining the fourth day. Epide-

mic and contagious.

The disease is subject to a metastasis occasionally, in females to the mamme, in males to the testes; and in a few instances, repelled from these parts, it has affected the brain, and even proved fatal. In general, however, the disease is without danger, and seacely calls for medical did. Keeping a flannel over the part, and the antiphlogistic regimen, with mild laxatives, will be sufficient. Should the mamma, or the testes, be affected, more active evacuations may be necessary to prevent the destruction of those organs, bleeding general and topical, &c. but avoiding cold applications, lest it should be driven to the brain. And where this part is unfortunately attacked, besides the means explained under Phrenities; it may be useful to endeavour to recall the inflammation to its former seat by warm fomentations, stimulant linuments, &c.

to recall the inflammation to its former seat by warm fomentations, stimulant liminents, &c.

5. Cynanche maligna. The malignant, putrid, or ulcerous sore throat. Called also Cynanche gengremosa; Angina alcusos; Febris epidemica cum angina alcusoulosa; Angina epidemica; Angina gangramosa; Angina suffocativa; Angina maligna. This disease is readily to be distinguished from the inflammatory quincy, by the soreness and specks which appear in the flauces, together with the great debility of the system, and small fluttering pulse, which are not to be observed in the former. In the inflammatory sore throat there is always great difficulty of swallowing, a considerable degree of tumour, with a tendency in the parts affected to suppurate, and a hard, full pulse. Moreover in the former affection the disease is seated principally in the mucous membrane of the

pulse. Moreover in the former affection the disease is seated principally in the mucous membrane of the mouth and throat; whereas in the latter the inflammation chiefly occupies the glandular parts.

The putrid sore throat often arises from a peculiar state of the atmosphere, and so becomes epidemical; making its attacks chiefly on children, and those of a weak relaxed habit. It is produced likewise by contagion, as it is found to run through a whole family, when it has once seized any person in it; and it proves often fatal, particularly to those in an infamilie state. It appears, however, that under this head two different

often fatal, particularly to most manimal estate. It appears, however, that under this head two different complaints have been included; the one, especially fatal to children, is an aggravated form of scarlattan; the other, a combination of inflammation of the fauces with typhus fever; the former is perhaps always, the other accounts the other accounts of the complaints have been included; the one, especially eaten, and said to be a greater delicacy than the chemit. Cypravs lowers. The systematic and pharmaco-with typhus fever; the former is perhaps always, the

the quincy.) Membries with factor a quincy of Cynanthro ria. (From xow, a dog, and avdpomos, a man.) It is used by Bellini, De Morbis Capitas, to express a particular kind of melancholy, when men fancy themselves changed into dogs, and imitate their

CY'NARA. See Cinara.
CYNAROCEPHALUS. (From κιναρα, the artichoke, and κεφαλη, a head.) Having a head like the Cinara, or artichoke; as the thistle, globe thistle, burdock, blue hottle

Κυγχνις. A vessel of any kind to Cy'nchinis.

CYNOCRA'MBE. (From κυων, a dog, and κραμβη, cabbage; an herb of the cabbage tribe, with which dogs are said to physic themselves.) See Mercurialis pe-

CYNO'CTANUM. (From κυων, a dog, and κζεινω, to kili) A species of aconitum, said to destroy dogs. See Aconitum napellus. CYNOCYTRIS. (From κυων, a dog, and κυζισος, the cytisis: so named because it was said to cure the distemper of dogs.) The dog-rose. See Rosa canina. CYNODE CTOS. (From κυων, à dog, and δακυω, to bite.) So Dioscorides calls a person bit by a madder.

to bite.) So Dioscorides cans a person one of a manded.

dog.

- CYNODE'SMON. (From κυων, a dog, and δεω, to bind; so named because in dogs it is very discernible and strong.) A ligature by which the prepuce is bound to the glands. See Francon.

CYNODO'NTES. (Κυνοδοντος: from κυων, a dog, and ολους, a tooth.) The canine teeth. See Teeth.

CYNOGLO'SSUM. (From κυων, a, dog, and γλωσσα, a tongue; so named from its supposed resemblance.) Hound's tongue.

1. The name of a genus of plants in the Linnæan

1. The name of a genus of plants in the Linnæan system. Class, Pentandria; Order, Monogynia.

2. The pharmacopeial name of the hound's tongue.

See Cynoglossum officinale.

See Cynoglossum officinatie. The systematic name for hound's tongue. Cynoglossum; Lingua canina; Cynoglossum—staminious corolla brevioribus; folits late lancelatis tomentosis, sessitibus, of Linnaus. It possesses narcotic powers, but is seldom employed medicinally. Acids are said to medicinally. Acids are said to counteract the effects of an over-dose more speedily than any thing

cliects of an eless, after clearing the stomach.

CYNO'LOPHUS. (From xwwy, a dog, and λοφος, a protuberance: so called because in dogs they are peculiarly eminent.) The asperities and prominences of

CYNOLY'SSA. (From κυων, a dog, and λυσση,

madness.) Canine madness.
CYNOMO'RIUM. The name of a genus of plants the Linnean system. Class, Monecia; Order, Monandria.

Monandria.

Cynomorium coccineum. The systematic name of the Fungus melitensis; improperly called a fungus It is a small plant which grows only on a little rock adjoining Malta. A drachm of the powder is given for a dose in dysenteries and hæmorrhages, and with

remarkable success.

CYNORE'XIA. '(From κυων, a dog, and ορεξις, appetite.) A voracious or canine appetite. See Bu

appended harmonic properties. CYNO'SBATOS. See Cynosbatus. CYNO'SBATUS. (From κυων, a dog, and βα7ος, a thorn: so called because dogs are said to be attracted by its smell.) The dog-rose. See Rosa canina. CYNOSPA'STUM. (From κυων, a dog, and σπαω, to the contract of th

ttract.) See Rosa canina. CYOPHORIA. (From κυος, a fætus, and φερω, to

CYOPHO RIA. (From κυος, a loctus, and φερω, to bear.) Pregnancy.
CYPERUS. (From κυπαρος, a little round vessel, which its roots are said to resemble.) Cyperus. The name of a genus of plants in the Linnean system. Class, Triandria; Order, Menogynia.
Cyperus ESCUENTUS. The rush-nut. This plant is a native of Italy, where the fruit is collected and eaten, and said to be a greater delicacy than the chesnut.

triquetro folioso, umbella foliosa supra decomposita; pedunculis nudis, specis alternis, of Linnæus. The smell of the root of this plant is aromatic, and its taste warm, and sometimes bitter. It is now totally fallen into-disuse

CYPERUS ROTUNDUS. This species, the round cype rus, Cyperus—culmo triquetro subnudo, umbella de-composita; spicis alternis linearibus, of Linnaus, is compositor, specia access tenegratures, of Limitary, is generally preferred to the former, being a more gratefully aromatic bitter. It is chiefly used as a stomachic. (YPHELLA. A peculiar sort of pit or pore on the under side of the frond, in that section of lichens

Called stricta.

CYPHO'MA. (From κυπ7ω, to bend.) A gibbosity, or curvature of the spine.

CYPHO'SIS. An incurvation of the spine.

CYPRESS. See Cyprus.

Cypruss spurge. See Esula minor.

CYPRING OLEUM. Flowers of cypress, calamus, cardamoms, &c. boiled in olive oil, now fallen into

Cy'PRIUM. (From κυπρος, Cyprus, an island where

it is said formerly to have abounded.) Copper.

CYPRUS. (So called from the island of Cyprus,
where it grew abundantly.) The cypress-tree, or Eastern privet.
[CYPRŒITE. Petrifaction of a Cyprœa or Cow-

Ten See Organic relics. A.]

CYPSELIS. (From κυψέλη, a beehive.) The aporture of the ear, also the wax of the ear.

CYRCNE'SIS. (From κυρκυαω, to mix.) A mixture, or composition.

CYRTO'MA. (From κυρ7ος, curved.) 1. An unnatural convex tumour.

Tympanites.

(From kup7os, curved, and vocos, a CYRTONO'SUS. (From disease.) 1: The rickets.

CYRTOSIS. (Cyrtosis, is. f.; from supros, curvus, incurvus, gibbosus, and among the ancients particularly imputed resurvation of the spine, or posterior crookedness, as Aophaous, imputed procurvation of the crookedness, as Aopdarts, imputed procurvation of the head and shoulders, or anterior crookedness.) The name of a genus of diseases in Good's Nosology. Class, Eccritica; Order, Mesotich. Contortion of the bones; defined, head bulky, especially anteriorly; stature short and incurvated; flesh flabby, pale, and wrinkled. It has two species, Cyrtosis rhachia, and

C. cretenismus, cretenism.
Cy'ssarus. (From xuoos, the anus.) The intestinum rectum is so called, because it reaches to the

Cysso'TIS. (From KUGOS, the anus.) An inflammation of the anus

YSTEOLITHUS. (Prom kuşış, the bladder, and os, a stone.) A stone in the bladder, either urinary λιθος, a stone.)

or gall-bladder

CYSTIUS. Κυσθος. The anus.
CYSTIC. (Cysticus; from κυςις, a bag.) Belong-

CYSTIC. (Cysticus; from rogis, a bag.) Belonging to the urinary or gall-bladder.

Cystic buct. See Ductus cysticus.

Cystic oxide. A peculiar animal product discovered by Dr. Wollaston. See Calculus, urinary.

Cy'stica. (Cysticus; from rogis, the bladder.)

Remedies for diseases of the bladder.

CY'STIDES. (Cystis, idis. f.; from kusis, a bag.)

CYSTIPHLO'GIA. (From kuşıs, the bladder, and

φλεγω, to burn.) An inflammation in the bladder

CVSTIRKHA GIA. (From rugse, the bladder, and pnyyupa, to burst forth.) A discharge from the bladder. CVSTIS. (Kvgs., a bag.) 1. Cyst or bladder.

2. The urinary bladder.

3. The membranous or cyst surrounding or contain ing any morbid substance.

ing any mornd substance.

CYSTIS CHOLEDOCHA. See Gall-bladder

CYSTIS FELLEA. See Gall-bladder.

CYSTIS TERNARIA. See Urinary bladder.

CYSTITIS. (From 1975; the bladder.) Inflammation of the bladder. A genus of disease arranged by Cullen in the class Fyrexia, and order Philogramsics. by Cullen in the class Pyrexia, and order Phlegmasta. It is known by great pain in the region of the bladder, attended with fever and hard pulse, a frequent and painful discharge of urine, or a suppression, and generally tenesmas. This is rarely a primary disease, and when it occurs, the above character of it will readily point it out. There also is frequently nausea and vomiting, and, in some cases, delirium. It most generally arises in consequence of inflammation of the adjacent parts, or from calculi in the bladder. The treatment is very similar to that of Nephritis; which see. When suppression of urine attends, the catheter must be occasionally introduced. must be occasionally introduced.

 (From κυςις, the bladder, and A hernia formed by the protusion CYSTOCE'LE. κηλη, a tumour.)

κηλη, a tumour.) A hernia formed by the protusion of the urinary bladder. CYSTOLI THICUS, (From κυςτς, the bladder, and λέθος, a stone.) Having a stone in the bladder. CYSTOPHLE GIOUS. (From κυςτς, the bladder, and φλεγω, to burn.) An inflammation of the bladder. CYSTOPHLEGMA TIOUS. (From κυςτς, the bladder, and φλεγω, pilegm.) Having matter or mucus in the bladder.

CYSTOPPOSIS. (From rugs, the bladder, and wpow. for, the anus, or rectum.) A disease of the bladder and rectum.

CYSTOPTOSIS. (From rugs, the bladder, and

wirt [a, to fall.] A protrusion of the inner membrane of the bladder, through the urethra.

CYSTOSPA'STICUS. (From κυςτς, the bladder, and σπασμα, a spasm.) A spasm in the sphincter of

The Diadder.

CYSTOSPY'ICUS. '(From κυςις, the bladder, and ωνον, pus.) Purulent matter in the bladder.

CYSTOTHROMBOI'DES. (From κυςις, the bladder, and βρομέρς, a coagulation of blood.) A concretion of grumous blood in the bladder.

'CYSTOTO'MIA. (From κυςις, the bladder, and γεμνο, to cut.) The operation of cutting or piercing the bladder.

CY THOS. An eye-wash.

CY THOS. (Perhaps, as Martyn suggests, from knylvot, a name given by Theophrastus to the blossoms of the pomegranate, the calyx of which the flower in question resembles in shape.) The name of a genus of plants. Class, Gynandria; Order, Octandria of Linux. Linnæus.

UYTINUS HYPOCISTIS. Rape of Cystus. A fleshy pale-yellowish plant, parasitical on the roots of several species of cystus in the south of Europe, from which the succus humanistic in the inclusion. the succus hypocistidus is obtained.

CYTISO-GENISTA. Common broom. See Spartium scoparium.

CYZEMER. A swelling of the wrists.

CYZICE'NUS. A plaster for wounds of the nerves.

## · · T

AUNE'RUS. (From δακνω, to bite.) Biting. Pun-Dent. An epithet for a sharp eye-wash, composed of burnt copper, pepper, cadmia, myrrh, and opium. Dacky buwn. (From δακρυ, a tear.) The inspisanted juice of scammony, in small drops, and therefore called a tear.

DACRYGELO'SIS. (From δακουω, to weep, and γέλαω, to laugh.) A species of insanity, in which the patient weeps and laughs at the same time.

DACRYO'DES. (From daspow, to weep.) A sanious, or weeping ulcer.

DACRYO'MA. (From δακρυω, to weep.) is compared from or more of the puncta lachrymalia, causing an effusion of tears.

DACTYLE THRA (From δακ 7υλος, a finger.) A species of bougies shaped like a finger, to excite vomiting.

(From δακ 7υλος, the date.) The DACTYLE TUS.

hermodactyl. See Hermodactylus. DA'CTYLIUS. (From δακ')νλος, a finger.)
pastil, troche, or lozenge, shaped like a finger. A round DA'CTYLUS. (From dan Judos, a finger; so called .

from the likeness of its fruit to a finger.) I. A finger. See Digitus.

2. The date. See Phaniz dactylifera.
DÆ DIUM. (From dats, a torch. A small torch or

Candle. A bougie.

DÆMONOMA'NIA. (From δαιμων, a dæmon, and μανια, madness.) That species of melancholy where the patient supposes himself to be possessed by

devils.

DAISY. See Bellis perennis.

Daisy, oz-eye. See Chrysanthemum leucanthemum.

DALE, SAMUEL, was born in 1659. After practising as an apothecary, he became a licentiate of the college of physicians, and settled at Bocking, where he continued till his death in 1739. He was also chosen a fellow of the Royal Society. In 1693, he published his "Pharmacologia," an Introduction to the Materia Medica, which he afterward much enlarged and improved; the work was well received, and passed through many editions. He also gave a good account of the natural productions about Harwich and Dover Court.

Damask rose. See Rosa centifulia.

Damask rus. (From damno, to condemn.) The dry useless faces, left in a vessel after the moisture has been distilled from it, is called terra damnata, or caput

DAMSON. The fruit of a variety of the Prunus

domestica.
[DANA, JAMES FREEMAN, M. D., was the oldest son of Luther Dana, Esq., and was born in Amherst, in the state of New-Hampshire, in September 1793. After his graduation, he commenced the study of medicine under Dr. John Gorbam, at that time Professor of Chemistry in Harvard University. In the year 1815, before he had completed his professional studies, he had become so well known as a practical chemist, that he was selected by the University to go to London, an areast for the nurpose of procuring a new apparation. that he was selected by the University to go to London, as an agent, for the purpose of procuring a new apparatus for the chemical department. While in England, where he remained several months, he prosecuted the study of chemistry in the Laboratory of Accum, a celebrated operative chemist. With Dartmouth College he remained connected; in the capacity of Lecturer on Chemistry, until the year 1880, when he repetived, the adventment of Professor

Accum, a celebrated operative chemist.

With Dartmouth College he remained connected, in the capacity of Lecturer on Chemistry, until the year 1820, when he received the appointment of Professor of Chemistry and Mineratogy in the same institution. This office he held until the year 1826; and those who enjoyed the privilege of hearing his admirable lectures, will long remember with what ability and success he discharged its duties. In 1826 he was appointed one of the Board of Visiters of the Military Academy at West Point; and, immediately after his return from the discharge of this duty, he was appointed Professor of Chemistry in the University of New-York. This appointment, which opened a wide field for the exertion of his talents, he readily accepted, and removed with his family to the city, in the autumn of the same year. About six months after his removal to New-York, he sunk under an attack of erysipelas, at the early age of 33, and when just entering upon an extended sphere of usefulness and honour.

His principal publications were the following, viz. "Outlines of the Mineralogy and Geology of Boston and its Vicinity:" "Epitome of Chemical Philosophy." "Report on a singular Disease of horned Cattle, in the Town of Burton, New-Hampshire." Besides these publications, he contributed several papers to the American Journal of Science, the New-England Journal of Medicine, and the Annals of the Lyceum of Natural History of New-York, some of them of very considerable merit, and some of which have been reprinted in Europe." —Thatch. Mad. Biog. A.]

DANDELION. See Petertaiss.

DANEWORT. See Pidyriasis.

DANEWORT. See Pidyriasis.

DANEWORT. See Pidyriasis.

DANEWORT. See Pidyriasis.

DANEWORT. The laurel, or bay-tree.

DAPHNE. (Daphne, δaφny, from δaω, to burn, and φωνη, a noise: because of the noise it makes when burnt.) The name of a genus of plants in the Linnean system. Class, Octandria; Order, Monogynia. The laurel, or bay-tree.

DAPHNE ALPINA. Chamalea: Chamelea. This species of dwarf olive-tree is said to be

chemically. See Daphnin.

2. The mezereon is also so called, because it has leaves like the olive-tree. See Daphne mezereum. Daphne, flar-leaved. See Daphne gradium. Daphne onder The systematic name of the tree which affords the Garou bark. Daphne:—paniculat erminali foliis lineari-lanceolatis acuminatis of Linneus. Thymelea; Oncoron. Spurge-flax; Flax-leaved Daphne. Garou bark, which very much resembles that of our mezereum, is to be immersed in vinegar for about an hour before it is wanted; a small piece, the size of a sixence, thus stepend; is ambled. piece, the size of a sixpence, thus steeped, is applied to the arm or any other part, and renewed once a day in winter and twice in summer. It produces a serous exudation from the skin without irritating or blistering.

exudation from the skin without irritating or bistering. It is recommended, and is in frequent use in France and Rgissin, against some diseases of the eyes.

DAPHNE LAUREDLA. The systematic name of the spurge-laurel. Laureola daphnoides. The bark of this plant is recommended to excite a discharge from the skin, in the same way as that of the Daphne gni-

dium.

Daphne Mezerbum. The systematic name of the mezereon. Spurge-olive; Widow-wail. Mezereum. Daphne—floribus ressilibus ternis caulinis, foliis lancelatis deciduis, of Linneus. This plant is extremely acrid, especially when fresh, and, if retained in the mouth, excites great and long-continued heat and inflammation, particularly of the mouth and fauces; the berries, grana cnidii of old writers, also have the same-effects, and, when swallowed, prove a powerful corrosive poison, not only to man, but to dogs, wolves, and foxes. The bark of the root is the part employed medicinally in the decoctum sarsaparills compositum, intended to assist mercury in resolving noises and other obstinate symptoms of syphilis. The antisyphiluc virtues of mezereum, however, have been by many writers very justly doubted. "The result of my own experience (says Mr. Pearson, of the Lock Hospital) by no means accords with the representation given of this root by former writers. From all that I have been by no means accords with the representation given of this root by former writers. From all that I have been able to collect, in the course of many years' observa-tion, I feel myself authorized to assert, unequivocally, that the mezereum has not the power of curing the venereal disease in any one stage, or under any one form. If a decoction of this root should ever reduce form. If a decoction of this root should ever reduce a veneral node, where no mercury has been previously given, yet the patient will by no means be exempted from the necessity of employing mercury for as long a space of time, and in as large a quantity, as if no mezereum had been taken. With respect to the power it is said to possess, of alleviating the pain, and diminishing the bulk of membraneous nodes, flothing peculiar and appropriate can be ascribed to the mezereum on these accounts, since we obtain the same good effects from assrangilla graingure relative being peculiar and services are personal to the same reum on these accounts, since we obtain the same good effects from sarsaparilla, guaiacum, volatile alkali, blistering plasters, &c. Nevertheless, venereal nodes, which have subsided under the use of any of these articles of the materia medica, will appear again, and often with additional symptoms, if a full land effications are safe mercury be not submitted to. It has, otten with additional symptoms, if a full and effica-cious course of mercury be not submitted to. It has, indeed, been alleged, that mezereum always alleviates the pain occasioned by a venereal node, and generally reduces it, where the periosteum only is affected; and that it seldom fails of removing those enlargements of the periosteum which have not yielded during the ad-ministration of mercury.

ministration of mercury.

That some instances of success, in cases like these, may have fallen to the share of those who made the assertion, it would not become me to deny; but I have met with few such agreeable evidences of the efficacy of this medicine. I have given the mezereum in the form of a simple decoction, and also as an ingredient in compound decoctions of the woods, in many cases, where no mercury had been previously employed, but never with advantage to a single patient. I have also tried it, in numerous instances, after the completion of a course of mercury; yet, with the exception of two cases, where the thickened state of the periosteum was removed during the exhibition of it, I never saw the least benefit derived from taking this medicine. In a few cases of anomalous pains, which I supposed were derived from irregularities during a mercurial course, the mezereum was of service, after I had tried the derived from fregularities during a mercuriar course, the mezereum was of service, after I had tried the common decection of the woods without success; but even in this description of cases, I have always found it a very uncertain remedy. I have made trial of this vegetable in a great number of scrofulous cases, where

the membranes covering the bones were in a diseased state, and I am not sure that one single patient obtained any evident and material benefit from it.

ed any evident and material benefit from it. The late Dr. Culten, whose reports may justly claim attention from all medical men, when treating of the mezoreum, in his Materia Medica, says, "I have frequently employed it in several cutaneous affections, and sometimes with success." It were to have been wished, that the professor of medicine had specified what those diseases of the skin were, in which the mezereum was sometimes employed with saccess; for, if I except an instance or two of lepra, in which the description of this plant configeral incompary benefit. decoction of this plant conferred a temporary benefit, I have very seldom found it possessed of medicinal virtue, either in syphilis, or in the sequelæ of that disease, in scrotula or in cutaneous affections. Indeed the mezereum is of so acrimonious a nature, often pro-ducing heat and other disagreeable sensations in the fauces, and, on many occasions, disordering the primæ viæ, that I do not often subject my patients, to the certain inconveniences which are connected with the primary effects of this medicine, as they are rarely com-

tam taconveniences which are connected with the primary effects of this medicine, as they are rarely compensated by any other important and useful qualities." DAPHINELÆ'ON. (From δαφνη, the laurel, and λαιον, oil.) The oil of bay-berries.

DAPHNIN. The bitter principle of the Daphne alpina, discovered by Vauquelin. From the alkoholic infusion of this bark, the resin was separated by its concentration. On diluting the tincture with water, filtering and adding acetate of lead, a yellow daphnate of lead (ell, from which sulphuretted hydrogen separated the lead, and left the daphnin in small transparent crystals. They are hard, of a grayish colour, a bitter taste when heated, evaporate in acrid acid vapours, sparingly soluble in cold, but moderately in boiling water. It is stated, that its solution is not precipitated by acetate of lead; yet acetate of lead is employed in the first process to throw it down.

DAPHNYTIS. (From δαφνη, the laurel.) A sort of cassia resembling the laurel.

DA'RSIN. (From darzin, Arabian.) The grosser sort of cinnamo

DA'RSIS. (From δερω, to excoriate.) An excoria-

DA'RTOS. (From δερω, to excoriate: so called from its raw and excoriated appearance.) The part so called, under the skin of the scrotum, is by some anatomists considered as a muscle, although it appears to be no more than a condensation of the cellular membrane liming the scrotum. It is by means of the dargest that the state of the scrotum is corrusated and retos that the skin of the scrotum is corrugated and relaxed

laxed.

DARWIN, ERABMUS, was born at Elton, in Nottinghamshire, in 1731. After studying at Cambridge
and Edinburgh, and becoming doctor of medicine, he
went to settle at Litchfield. He had soon after the
good fortune to succeed in the cure of a gentleman in
the neighbourhood, who was so ill of a fever, as to
have been given over by the physician previously in
attendance: this speedily procured him very extensive
practice. He soon after married, and by his first wife
had three sons, of whom only one survived him. At
the age of 50, he married again, and removed to Derby,
where he continued till his death in 1802, leaving six
children by his second wife. The active life he led,
and his very temperate habits, preserved his health and and his very temperate habits, preserved his health and and his very temperate nants, preserved his heath and faculties in a great degree unimpaired. He distinguished himself more as a poet, than by professional improvements: though he certainly suggested some ingenious methods of practice; but, warned by preceding examples, he avoided publishing any material with the state of the course the propulse astablished. ding examples, he avoided publishing any material poem, till his medical fame was thoroughly established. His "Botanic Garden," and "Zoonomia," are well known, but they have long ceased to be popular: and the philosophy of the latter work, which advocates materialism, is justly censured. He communicated to the College of Physicians an account of his successful nearly straight in the control of his discasses. use of digitalis in dropsy, and some other diseases, which was published in their Transactions. His son Charles, who died while studying at Edinburgh, obtained a gold medai by an Essay on the distinction of Pus and Mucus; and left another unfinished on the Retrograde Action of the Absorbents: which were published after his death by his father.

DASY'MNA. (From δασυς, rough.) A scabby roughness of the eyelids.

A'sys. (\(\Delta a v s, \text{ rough.}\) 1. A dry, parched tongue, Difficult respiration.

2. Difficult respirations
DATE. See Duckylus.
Date plum, Indian. See Dyospyrus lotus.
DATOLYTE. Datholit of Werner. A s

A species of silicious ore divided into common datolyte and botroidal datolyte.

[This is the silicious borate of lime, called Datho lit, by Werner and Brogniart. It was discovered by tit, by Werner and Brogmart. It was discovered by Esmark. "It is sometimes in prismatic crystals, with ten sides, having two opposite solid angles on each base truncated. The primitive form is a right prism, whose bases are rhombs, with angles of 1090-28′ and 700-32′. It also appears in large granular concretions, which frequently discover indications of a prismatic form; also in grains or amorphous. The surface of the concretions is rough and glimmering. Its hardness enables it to scratch fluate of lime, and its specific gravity is 2.98. Its fracture is imperfectly conchoidal, shining, and nearly vitreous. Its colour is white, shaded with gray or green, often very de-

is white, shaded with gray or green, often very de-

Cleav. Min.

Cleav. Min. A.]

DATU'RA. (Blanchard says, it is derived from the Judian word datiro, of which he knows not the meaning.) The name of a genus of plants in the Linnaar system. Class, Pentandria; Order, Monogynia.

DATURA STRAMONIUM. The systematic name of the thorn-apple. Stramonium; Davicay; Barryo coccalon; Solanum maniacum of Dioscorides. Stramonium synosum of Gerard. Solanum fatidam of Barbin. Stramonium majus album. Common thorn-apple. hin. Stramonium majus album. Common thorn-apple. Datura—pericarpiis spinosis erectis ovatis, foliis ovatis glabras, of Lonneus. This plant has been long known as a powerful narcotic poison. In its recent state it has a bitterish taste, and a smell somewhat resembling that of poppies, especially if the leaves he rubbed between the fingers. Instances of the deleterious effects of the plant are nunerous, more particularly of the seed. An extract prepared from the seeds is recommended by Baron Stoerek in manical, epileptic, and convulsive affections; and is said by some to succeed, while, in the hands of others, it has failed. In this country, says Dr. Woodville, we are unaquainted with any practitioners whose experience tends to throw light on the medical character of this plant. It appears to us, continues Dr. Woodville, that its effects as a medicine are to be referred to no other power than that of a narcotic. And Dr. Cullen, its effects as a medicine are to be reterred to no other power than that of a narcotic. And Dr. Cullen, speaking on this subject, says, "I have no doubt that narcotics may be a remedy in certain cases of mania and epilepsy; but I have not, and I doubt if any other person has, learned to distinguish the cases to which such remedies are properly adapted. It is therefore that we find the other narcotics, as well as the stramonium, to fail in the same hands in which they had in other cases seemed to succeed. It is this consideration that has occasioned my neglecting the use of stranonium, and therefore prevented me from speaking more precisely from my own experience on this subject."

The extract of this plant has been the preparation metalts employed from one to ten grains and upwards

The extract of this plant has been the preparation usually employed from one to ten grains and upwards a day; but the powdered leaves, prepared after the manner of those of hemlock, would seem to be more certain and convenient. Greding found the strength of the extract to vary exceedingly; that which he obtaintained from Ludwig was much more powerful than that which he had of Stoerck. Externally, the leaves of stramonium have been applied to inflammatory turnours and burns, and it is said with success, and of late, the dried leaves have been smoked as a remedy in asthma; but it does not appear that they have been in asthma; but it does not appear that they have been more efficacious in this way than tobacco.

[The Stramonium is known in different parts of the

United States, by the name of Thorn-apple, Jamestown-

speed, Stink-weed, &c. All parts of the plant appear to be poisonous. Some soldiers died, during the revoto be poisonous. Some soldiers died, during the revo-lutionary war, by eating the young plants, for greens, carly in the spring. I have seen children labouring under the effects of the poison from having swallowed the seeds, and from drinking a decoction of herbs in which some of the young seed-vessels, and small leaves, of the stramonium had been accidentally mixed.

The poison of the stramonium had been accidentally mixed. The poison of the stramonium produces, in children, a peculiar spasmodic delirium, attended with dilatation of the pupils of the eyes, heat of the skin, and a flush of the face. The ripe or unripe seeds, or the leaves, produce the same effect, and the only remedy is to discharge them from the stomach by emetics, as soon as possible. A.]

is to discharge them from the stomach by emetics, as soon as possible. A.]

DAUBENTON, Lewis Mary, was born in Burgundy, 1716. Having become doctor in medicine at the age of 24, he went to Paris, and being very zealous in the study of comparative anatomy, the office of keeper of the royal cabinet of natural history was procured for him by the celebrated Buffon. He.contributed materially to enrich the splendid work of that eminent naturalist, by furnishing the anatomy both of man and animals. He was a member of several distinguished societies, among others of the Royal Academy of Sciences at Paris, to which he made some useful communications. Having essaped the revolutionary horrors in France, he was chosen, in 1799, a member of the Conservative Senate: but he died towards the end of the same year. ber of the Conservations, the end of the same year.
Wild-carrot seeds, steeped in

DAU'CUS. Anov rov daver, from its relieving the colic, and discussing flatulencies.) The carrot. 1. The name of a genus of plants in the Linnaan system. Class, Pentandria; Order, Digynia.

2. The pharmacopæial name of the garden carrot:

·See Daucus carota

DAUCUS ALSATICUS. The Oreoselinum pratense,

DAUCUS ANNUUS MINOR. The Caucalis anthriscus,

of Linnæus

DAUCUS CAROTA. The systematic name of the carrot plant. Daucus; Daucus sylvestris; Pastinaca sylvestris tenuifolia officinarum; Daucus—seminibus sylvestris tenurjoita officinarum; Daucus—sementus, hispidis, petiotis subtis nervosis, of Linnavas. The cultivated root, scraped, and applied in the form of a poultice, is a useful application to phagetenic ulcers, and to cancers and putrid sores. The seeds, which obtain a place in the materia medica, have a light aromatic smell, and a warm acrid taste, and are esteemed for their diuretic qualities, and for their utility in calculous and nephritic complaints, in which an infusion of three spoonfuls of the seeds, in a pint of boiling water, has been recommended; or the seeds may be fermented in malt liquor, which receives from them an agreeable flavour, resembling that of lemon-peel. The boiled root is said by many to be difficult of peet. The bonea root is sain by many to be dimicult of digestion; but this is the case only when the stomach is weak. It contains a considerable quantity of the saccharine principle, and is very nutrifious.

DAUCUS CRETICUS. See Athamanta cretensis.

DAUCUS SATIVUS. A Vallety of the Daucus carota, the seeds of which are preferred by some practitioners,

the seeds of which are preferred by some practitioners, DAUCUS STEVENTUS. Common chervil.

DAUCUS STEVENTUS. Common chervil.
The seeds of the wild plant are said to be more efficients than those of the garden carrot; they possess demulcent and aromatic qualities, and are given, in infusion, or decoction, in calculous complaints.

DAY-MARE. See Ephialtes.
DAY-SIGHT. See Paropsis nactifuga.
Dead nettle. See Lamium album.
DEAFNESS. Surditas. See Parocusis.
DEAFNESS. Surditas. See Parocusis.
DEAF-dumbrass. Speechlessness, from deafness.
DEAFNESS. (From de, and articulus, a joint.)
Articulation admitting evident motion.
DEASCIA'TIO. (From de, and associo, to chip, as with

Articulation admitting evident motion.

Deascia'tio. (From de, and ascio, to chip, as with a hatchet.) A bone splintered on its side.

DECAGY'NIA. (From δεκα, ten, and γννη, a woman.) The name of an order of the class Decandria, of the sexual system of plants. See Plants.

DECAMY'NON. (From δεκα, ten, and μνρον, an ointment.) An aromatic ointment, mentioned by Oribasius, containing ten ingredients.

DECA'NDRIA. (From δεκα, ten, and ανηρ, a man.)

The name of a class, and also of an order of plants in

The name of a class, and also of an order of plants in the sexual system. See Plants.

Decody Nta. (From decido, to fall down.) Any change prolonging acute diseases.

DECIDUA. (Deciduus; from decido, to fall off.) Membrana decidua. A very thin and delicate membrane or tunic, which adheres to the gravid uterus, and is said to be a reflection of the chorion, and, on that account, is called decidua reflexa. The tunica decidua comes away after delivery, in small pieces, mixed with

the lochia?

DECI DUUS. (From decido, to fall off, or down: to die.) Deciduous; falling off. Applied to trees and shrubs, which, in most European countries, lose their leaves as winter approaches, and to the pertanthium of Tilla european, which does not fall off until after the flower is expanded.

This term is expressive of the second stage of duration, and, like caducous, has a different application according to the particular part to which it refers: thus leaves are deciduous which drop off in the au-tumn, petals which fall off with the stamma and pisitilities, petulis which tail off with the standina and pis-tilities; and calyces are deciduous which fail off after the the expansion, and before the dropping of the flower. DECIMA'NUS. (From decem, ten, and mane, the morning.) Returning every tenth day, applied to some erratic fevers.

(From de, and clivis, a hill.) De ing. A name of an abdominal muscle, DECLI'VIS. clining, descending.

clining, descending. A name of an addominal muscle, because of its posture.

DECO CTUM. (From decoguo, to boil.) A decoction. Any medicine made by boiling in a watery fluid. In a chemical point of view, it is a continued ebullition with water, to separate such parts of bodies as are only soluble at that degree of heat. The following are among the most approved decoctions.

among the most approved decoctions.

DECOCTUM ALBUM. See Misture cornu usti.

DECOCTUM ALOES COMPOSITUM. Compound de coction of aloes. Take of extract of liquorice, half an ounce; subcarbonate of potassa, two scruples; extract of spiked aloe powdered, myrth powdered, saffron stigmata, of each a drachin; water, a pint. Boil down to twelve fluid ounces, and strain; then add compound tincture of cardamoms, four fluid ounces. This decoction now first introduced into the London Pharmace. tion, now first introduced into the London Pharmacopæia, is analogous to an article in very frequent use, invented by the late Dr. Devalingin, and sold under the name of Beaume de vie. By the proportion of tincture which is added, it will keep unchanged for any length of time.

DECOCTUM ALTHREE. Decoction of marsh mallows. Take of dried marsh-mallow roots, 3 iv; raisins of the sun, stoned, 3 ij; water livij. Boil to five pounds; place apart the strained liquor, till the faces have subsided, then pour off the clear part. This preparation, directed in the Edinburgh Pharmacopæia, may be exhibited as a common drink in nephralgia, and many diseases of the urinary passages, with advantage.

Decoctum anthemidis. See Decoctum chamæ-

Take of the root of the DECOCTUM ASTRAGALI. DECOCYUM ASTRAGAM. PARE of the root of the astragalus escapus, 31, distilled water, biij. These are to be boiled, till only a quart of fluid remain. The whole is to be taken, a little warmed, in the course of 24 hours. This remedy was tried very extensively in Germany, and said to evince very powerful effects, as an antisyphilitic

an antisypmutic.

DECOCTUM BARDANE. Take of bardana root, 3 vj;
of distilled water, fbvj.
only two quarts remain. From a pint to a quart in a
day is given, in those cases where sursaparilla and
other remedies, that are called alterative, are supposed to be requisite.

DECOUTM CHAMMENEL. Chamomile decoction. Take of chamomile flowers, \$1; caraway seeds, \$88; water, ibv. Boil fifteen minutes, and strain. A very common and excellent vehicle for tonic powders, pills, &c.. It is also in very frequent use for fomentation, and clysters.

DECOCTUM CINCHONE. Decoction of cinchona commonly called decoction of Peruvian bark. Take of lance-leaved cinchona bark bruised, an ounce : water, a pint. Boil for ten minutes, in a vessel slightly covered, and strain the decoction while hot. According to the option of the practitioner, the bark of either of the other species of cinchona, the corditolia, or yellow, or the oblongifolia, or red, may be substituted for the lancifolia, or quilted; which is here directed. Hiquors in inflammatory diseases. It is an excellent This way of administering the bark is very general, as gargle in inflammatory sore throats, mixed with a little This way of administering the bark is very general, as all the other preparations may be mixed with it, as necessity requires. It is a very proper fomentation for prolapsus of the uterus and rectum.

prolapsus of the uterus and-rectum.

DECOCTUM CORNU. See Mistura cornu usti.

DECOCTUM CYDONIA. Mucilago seminis cydonii
malti. Mucilago seminum cydoniorum. Decoction
of quince seeds. Take of quince seeds, two drachms;
water, a pint. Boil over a gentle line for ten minutes,
then strain. This decoction, in the new London Pharthen strain. This decoction, in the new London Pharmacopæia, has been removed from among the mucilages, as being less dense than either of the others, and as being employed in larger doses, like other mucilaginous decoctions. In addition to gum, it contains other constituent parts of the seeds, and is, therefore, more apt to spoil than common mucilage, over which it possesses no other advantages, than that it is more grateful, and sufficiently thin, without further dilution, to form the bulk of any-liquid medicine. Its virtues are demulcent. Joined with syrup of mulberry and a little borax, it is useful against aphthæ of the mouth and

DECOCTUM DAPHNES MEZEREI. Decoction of me-Decocrot of the barks mezeren. Decocrot of the zereon. Take of the barks of mezereon root, \$15; liquorice root, bruised, \$385; water, biij. Boil it, with a gentle Leat, down to two pounds, and strain it. From four to cight ounces of this decoction may be given four times a day, in some obstinate venereal and rheumatic affections. It operates 'chiefly by performance of the property of the propert

spiration.

DECOCTUM DULCAMAR . Decoction of woody nightslidde. Take of woody nightshade stalks, newly gathered, 3); distilled water, fbiss. These are to be boiled away to a pint, and strained. The dose is half an ounce to two ounces, mixed with an equal quantity of milk. This remedy is employed in inveterate cases of scrotula; in cancer and plagedena; in lepra, and other cutaneous affections; and in anomalous local diseases, originating in venereal lues.

diseases, originating in venereal lues.

Decoction of cabbage-tree plant. Take of bark of the cabbage-tree, powdered, 3j; water, ibij. Boil it, with a gentle fire, down to one pound, and strain. This is a powerful authelmintic. It may be given in doses of one table-spondul to children, and four to adults. If disagrees-ble symptoms should arise from an over-dose, or from drinking cold water during its action, we must immediately purge with castor oil, and dilute with acidu-

DECOCTUM GUALACI OFFICINALIS COMPOSITUM. Decoctum lignorum. Compound decoction of cum, commonly called decoction of the woods. Compound decoction of guaiacum, commonly called decoction of the woods. Take of gualacum raspings, 3 iij; raisins, stoned, 3 ii; sassafras root, liquorice, each, 3 ii; water, lbx. Boil the gualacum and raisins with the water, over a gentle fire, to the consumption of one half; adding, towards the end, the sassafras and liquorice. Strain the liquor without expression. This decoction possesses stimulated and displacements and in proceedings. lant and diaphoretic qualities, and is generally exhibited in rheumatic and cutaneous diseases, which are dependent on a vitiated state of the humours. It may taken by itself, to the quantity of a quarter of pint, twice or thrice a day, or used as an assistant in a course of mercurial or antimonial alteratives; the patient, in either case, keeping warm, in order to promote the operation of the medicine.

DECOCTUM HELLEBORI ALBI. Decoction of white ellebore. Take of the root of white hellebore, powhellebore. dered, by weight, \$j; water, two pints; rectified spirits of wine, \$j;, by measure. Boil the water, with the root, to one pint; and the liquor being cold and strained, add to it the spirit. This decoction, in the last London Pharmacopæia, is called decoctum veratified by a very efficacious annifestion extensily as tri. It is a very efficacious application, externally, as a wash, in tinea capitis, lepra, psora, &c. When the skin is very tender and irritable, it should be diluted

skin is very tender and irritable, it should be diluted with an equal quantity of water.

Deco-tum horder. Decoetum hordei distichi.

Agua hordeata. Take of pearl barley, 3 ji; water, four pints and a half. First wash away any adhering extraneous substances with cold water; next, having pouted upon the barley half a pint of water, boil for a few minutes. Let this water be thrown away, and add the remainder of the water boiling; then boil down to two pints, and strain. Barley-water is a nutritive and softening drink, and the most proper of all

DECOCTUM HORDEI COMPOSITUM. DECOCTUM NORBEI COMPOSITUM. Decocum per-terrale. Compound decoction of barley. Take of de-coction of barley, two pints; figs, sheed, 5ji; piquorice root, sliced and bruised, 5 ss; raisins, stoned, 5 ji; wa ter, a pint. Boil down to two pints and strain. From the pectoral and demutcent qualities of this decoction, it may be administered as a common drink in fevers and other acute disorders, in catarrh, and several affections of the chest.

tions of the chest.

DECOCTOM HORDEI CUM GUMMI. Barley-water, bij; gum arab, 3j. Thegum is to be dissolved in the barley decoction, while warm. It then foams a santable diluent in strangury, dysery, &c. for the gum, finding a passage into the bladder, in an unattered state, mixes with the urine, and prevents the action of its neutral salts on the urinary canal.

DECOCTUM LICHENIS. DECOCION of Iceland moss or liverwort. Take of liverwort, one onne; water, a punt and a baff. Bottlewort, one onne; water, a punt and a baff. Bottlewort.

pint and a half. Boil down to a pint, and strain. The dose is from 3 j to 3 iv.

[The Iceland moss was once in great repute as a

remedy in consumption, the decoction being made with milk, but it is no longer in repute, being considered a weak mucilagious bitter of little or no effi-

DECOUTTM LOBELLE. Take a handful of the roots of the Lobelia syphilities; distilled water, bxtj. These are to be boiled in the usual way, till only four quarts remain. The very desirable property of curing the venereal disease has been attributed to this medicine; but it is not more to be depended on than guaiacum, but it is not more to be depended on than guaracum, or other vegetable substances, of which the same thing has been alleged. The effects of this decoction are purgative, and the manner of taking it, as described by Swediaur, is as follows:—The patient is to begin with half a pint, twice a day. The same quantity is then to be taken, four times a day, and continued so long as its purgative effect is not too considerable. When the case is otherwise, it is to be discontinued for these of few days, and they had a recovered to grain full. three or four days, and then had recourse to again till the cure is completed. As this is a remedy on the old system, and not admitted into our pharmacopæias, little confidence ought to be placed in it.

DECOCTUM LUSITANICUM. Take of sliced sarsaparilla, lignum sassafras, lignum santalum rubrum, officinal lignum guaiacum, of each one ounce and a half; of the roof of nezereon, coriander seed, of each half an ounce; distilled water, ten pounds. These are to be hoiled till only half the fluid remains. The dose is a

quart or more in a day.

Take of sliced sarsaparilla, lignum santalum rubrun, lignum santalum citrinum, of each, 3 iss; of the root of glycirrhiza and mezercon, of each, 3 ij; of lignum rhodii, officinal lignum quaiacum, and lignum sassafras, of each, 3 ss; of antimony, 3 j: distilled water, bv. These ingredients are to be macerated for twenty-four hours, and afterward boiled, till the fluid is reduced to half its original quantity. From one to

four pints are given daily.

The late Mr. Hunter notices this, and also the following formula, in his Treatise on the Venereal Dis-

ease.

Take of sliced sarsaparilla, of the root of China, of each 5j; walnut peels dried, xx; antimony, 5j; puffice-stone, powdered, 3j; distilled water, hx. The powdered antimony and pumice-stone are to be tied in separate pieces of rag, and boiled, along with the other ingredients. This last decoction is reckoned to the the genuine Lisbon diet drink, the qualities of which have been the subject of so much gencomment.

Decoctum MALVE COMPOSITUM. Decoctum proceeding pr

pound decoction of mallows. Take of mallows dried, an omnce; chamonile flowers dried, half an ounce; water, a pint. Boil for a quarter of an hour, and strain. A very excellent form for an emollicat clyster. A variety of medicines may be added to answer par-ticular indications. ticular indications.

DECOCTUM MEZEREI. See Decoctum daphnes me-

Decoctum papaveris. Decoctum pro formation.
Decoctum papaveris. Decoction of poppy. Take of white poppy capsules bruised, \(\frac{z}{z}\) iv, water, four plans white poppy capsules bruised, \(\frac{z}{z}\) iv, water, four plans white poppy capsules an hour, and strain. This pre Boll for a quarter of an hour, and strain.

paration possesses sedative and antiseptic properties, and may be directed with advantage in sphaeelus, &c. DECOCTUM PRO ENEMATE. See Decoctum malva

compositum.

DECOCTUM PRO FOMENTO. See Decoctum papareris DECOCTUN PRO FORENTO. See Likeactum paparers.
Decoctun quercus. Decoction of oak bark. Take
of oak bark, 3j; water, two pints. Boil down to a
pint, and straim. This astringent decoction has lately
been added to the Lond. Pharm., and is chiefly used
for external purposes. It is a good remedy in prolapsus ani, and may be used also in some cases as an inlatellan.

DECOCTUM SARSAPARILLE. Decoction of sarsaparilla. Take of sarsaparilla root, sliced, 3 iv; boiling water, four pints. Macerate for four hours, in a vescel lightly covered, near the fire; then take out the sarsaparilla and bruise it. After it is bruised, put it again into the liquor, and macerate it in a similar manner for two hours more; then boil it down to two

This decoction is much extolled by some practitioners, in phthisis, and to restore the strength after a long

course of mercury

DECOCTUM SARSAPARILLE COMPOSITUM. Compound decoction of sarsaparilla. Take of decoction of sarsaparilla builing, four pints; sassaftas root sliced, gualacum wood shavings, liquorice root bruised, of each an ounce; mezereon root bark, Jiji. Boil for a quarter of an hour, and strain. The alterative property of the compound is very great; it is generally given after a course of mercury, where there have been nodes and indolent ulcerations, and with great benefit. The dose is from half a pint to a pint in twenty-four hours. benefit. The dose

DECOCTUM SENEGE. Decoction of senega. of senega root, 3j; water, two plats. Boil down to a pint, and strain. This is now first introduced into the Lond. Pharm, as being a useful medicine, especially in affections of the lungs, attended with debility

and inordinate secretion

DECOCTUM ULMI. Decoction of elm bark. Take of fresh elm bark bruised, four ounces; water, four pints. Boil down to two pints, and strain. This may be employed with great advantage as a collyrium in chronic ophthalmia. It is given internally in some cutaneous eruptions.

DECOCTUM VERATRI. See Decoctum hellchori albi. [The Pharmacopæia of the United States contains the following decoctions.

DECOCTUM ARALIE NUDICAULIS. Decection of false sarsaparilla.

DECOCTUM CINCHONE. Decoction of Peruvian bark

DECOCTUM COLOMBÆ COMPOSITUM. Compound decoction of Columbo.

DECOUTUM DULCAMARE. Decoction of bitter-sweet.

DECOCTUM GUAIACI. Decoction of guaiacum. Decoctum Hordel. Decoction of barley. DECOCTUM HORDEL COMPOSITUM. Compound de-

coction of barley.

DECOCTUM LICHENIS. Decoction of Iceland moss.

DECOCTUM MEZEREI. Decoction of mezercon. DECOCTUM SARSAPARILLE. Decoction of sarsapa-

DECOCTUM SARSAPARILLE COMPOSITUM.

pound decotion of sarsaparilla.

Decoctum science. Decoction of squill.

Decoctum senege. Decoction of squill.

Decoctum veratri. Decoction of white helic-

DECOLLA'TIO. (From decollo, to behead.) The loss of a part of the skull.
DECOMPOSITE. The name of a class in Sauvage's Methodus Foliorum, consisting of such as have twice compounded leaves; that is, have a common footstalk supporting a number of less leaves, each of the state of the state of the supporting and name of the state which is compounded; as in Fumaria, and many un-

which is componence, as it has each belilierous plants.

DECOMPOSITION. Decompositio. The separation of the component parts or principles of bodies from each other. The decomposition of bodies forms a very large part of chemical science. It seems probable, from the operations we are acquainted with, that it seldom takes place but in consequence of some combinations or composition having been effected. It would be difficult to point out an instance of the sepa-

been effected, unless in consequence of some new combination. The only exceptions seem to consist in those separations which are made by heat, and voltaic

DECOMPOSITUS. A term applied to leaves, and means doubly compound. Sir James Smith observes, that Limmeus, in his Philosophia Botanica, gives an erroneous definition of this term which does not agree with his own use of it. The Agopodium podagraria and Fulmaria claviculata, afford examples of the deand Fulmaria claviculata, afford examples of the de-composite leaves. Supra decompositum, means thrice compound, or more; as in Caucalis authriseus. The decomposite flowers are such as contain within a com-mon calyx a number of less or partial flower-cups, each of which is composed of many florets. DECORTICATION. (Decorticalio; from de, from, and cortex, bark.) The stripping of any thing of its bark, husk, or shell; thus almonds, and the like, are

decorticated, that is, deprived of their pellicle, when

decorticated, that is, deprived of their pelliele, when ordered for medicinal purposes.

[There is a natural and artificial decortication performed on certain trees. The shag-bark hickory-tree (juglans alba) throws off its bark by a natural and spontaneous decortication. So does the button-wood (platanus occidentalis) or plane-tree. The corkstree is deprived of its bark artificially every few years, and lives longer than those trees which are sufficient to grow without motestation. Those not decorticated become shagpy and hide-bound, while the others form a new bark and improve in appearance and vigour. These facts suggested the idea of improving fruit-trees that had become. Jude-bound and shagpy, and appeared to be in a state of decay. Dr. Mitchill first tried the experiment on an old apple-tree, and by removing the old bark, in the warm season, from the body of the tree, and protecting it from external injury for a time, he succeeded in producing a new bark and in regenehe succeeded in producing a new bark and in regenerating a tree which was considered as past bearing. The tree became vigorous, again put forth blossoms and bore fruit. Since that experiment, it has become common in apple orchards to improve old trees by a

common in appie orchards to improve of trees by a similar process. A.]

DECREPITATION. (Decrepitatio; from decrepo, to crackle.) A kind of cracking noise, which takes place in some bodies, when heated: it is peculiar to some kinds of salts, as muriate of soda, sulphate.of

barytes, &c.

DECUMBENS. (From decumbo, to lie down.)

Drooping: a term applied to flowers which incline to

Drooping: a term applied to howers which incline to one side and downwards.

DECURRENS. Decurrent. A term applied by botanists to leaves which run down the stem or leafy border or wing; as in Onopordium acanthiam, and many thistles, great mullein, and confrey; and to leaf-stalks; as in Pisum ochrus.

DECURSIVE. Decurrently. Applied to leaflets

DECURSIVE, Decurrently, Applied to leaflets that run down the stem; as in Eryngium compostre. DECUSSATION. (Decussatio; from decutio, to divide.) When nerves, or muscular fibres cross one another, they are said to decussate each other. DECUSSATUS. Decussated. Applied to leaves and spines which are in pairs, atternately crossing each other.

other; as in Veronica decussata, and Genista luci-

DECUSSO'RIUM. (From decusso, to divide.) An instrument to depress the dura mater, after tre-

DEFENSI'VA. (From defendo, to preserve.) Cordial

medicines, or such as resist infection.

DE FERENS. (From defero, to convey; because it conveys the semento the vesiculæ seminales.) See

DEFLAGRATION. (Deflagratio; From defla-gro, to burn.) A chemical term, chiefly employed to express the burning or setting fire to any substance; as

nitre, sulphur, &c.

DEFLUXION. (Defluzio; from defluo, to run off.)

A falling down of hunours from a superior to an inferior part. Many writers mean nothing more by it than inflammation.

DIFOLIATIO. (From de, and folium, a leaf.) The fall of the leaf. A term opposed to frondescentia, or the renovation of the leaf.

DEGLUTITION. (Deglutitio; from deglutic, to

(Deglutitio; from deglutio, to swallow down.) A natural action. "It is understood to be the passage of a substance, either solid. ration of any of the principles of bodies which has liquid, or gaseous, from the mouth to the stomach

Though deglutition is very simple in appearance, it is arrives at the esophagus; in the the third it passes nevertheless the most complicated of all the muscular actions that serve for digestion. It is produced by the contraction of a great number of muscles, and requires

the concurrence of many important organs.

All the muscles of the tongue, those of the velum of the palate, of the pharynx, of the larynx, and the muscular layer of the esophagus, are employed in deglu-

tition.

The velum is a sort of valve attached to the posterior edge of the roof of the palate; its form is nearly quadrilateral; its free or inferior edge is pointed, and forms the uvula. Like the other valves of the intes-tinal canal, the velum is essentially formed by a duplicature of the digestive mucous membrane; there are many mucous follicles that enter into its composiare analy indeous infinites that enter into its composi-tion, particularly in the uvula. Eight muscles move it; it is raised by the two internal pterggoid: the ex-ternal pterggoid hold it transversely; the two palatopharyngei, and the two constrictores isthmi faucium carry it downwards. These four are seen at the bottom of the throat, where they raise the mucous membrane, and form the pillars os of the velum of the palate, between which are situated the amygdala, a mass of mucous follicles. The opening between the base of the tongue below, the ordern of the paties above, and the pillars laterally, is called the isthmus of the By means of its muscular apparatus, the velum of the palate may have many changes of posi-tion. In the most common state it is placed vertically, tion. In the most common state it is placed ventually, one of its laces is anterior, the other posterior; in certain cases it becomes horizontal; it has then a superior and inferior aspect, and its free edge corresponds to the concavity of the pharynx. This last position is determined by the contraction of the elevating

The pharynx is a vestibule into which open the nostrils, the Eustachian tubes, the mouth, the larynx, and the esophagus, and which performs very important functions in the production of voice, in respiration, hearing, and digestion.

The pharynx extends from top to bottom, from the basilar process of the occipital bone, to which it attached, to the level of the middle part of the

Its transverse dimensions are determined by the os hyoides, the larynx, and the pterygo-maxillary apo-neurosis, to which it is fixed. The mucous membrane which covers it interiorly is remarkable for the deveopenent of its veins, which form a very apparent plexus. Round this membrane is the muscular layer, the circular fibres of which form the three constrictor muscles of the pharynx, the longitudinal fibres of which are represented by the stylo-pharyageus and constrictores isthuir faucium. The contractions of these different muscles are not generally subject to the

The asophagus is the immediate continuation of the pharynx, and is prolonged as far as the stomach, where pharynx, and is prolonged as far as the stomach, where it terminates. Its form is cylindrical; it is united to the surrounding parts by a slack and extending cellular tissue, which gives way to its dilutation and its motions. To penetrate into the abdomen the æsophagus passes between the pillars of the diaphragm, with which it is closely united. The mucous membrane of the esophagus is white, thin, and smooth; it forms longingling folds very proper for favouring the dilatation of the canal. Above it is confounded with that of the pharyux.

There are found in it a great number of mucous follicles, and at its surface there are perceived the orifices many exerctive canals of the mucous glands.

The muscular layer of the œsophagus is thick, its tissue is denser than that of the pharynx; the longitudinal fibres are the most external and the least numerous; the circular are placed in the interior and are very numerous.

Round the pectoral and inferior portion of the œsophagus, the two perves of the eighth pair form a plexus which embraces the canal, and sends many filaments

The contraction of the esophagus takes place with-

The contraction of the will.

Mechanism of Deglutition. Deglutition is divided into three periods. In the first, the food passes from the mouth to the pharynx; in the second, it passes the opening of the glottis, that of the musal canals, and

through this tube and enters the stomach.

Let us suppose the most common case, that in which we swallow at several times the food which is in the mouth, and according as mastication takes

As soon as a certain quantity of food is sufficiently Assoon as a certain quantity of food in sunctenuy, chewed, it is placed, by the effects of the motions of mastication, in part upon the superior face of the tongue, without the necessity, as some think, of its being collected by the point of the tongue from the different parts of the mouth. Mastication then stops; the tongue is raised and applied to the roof of the palate, in succession, from the point towards the base. The portion of food, or the alimentary bolus placed The portion of 100d, or the animentary notics practicularly upon its superior surface, having no other way to escape from the force that presses, is directed towards the pharynx; it soon meets the veium of the palate applied to the base of the tongue and raises it; the applied to the base of the longue and raises it; the velum becomes horizontal, so as to make a continuation of the palate. The longue, continuing to press the food, would earry it towards the nasal canals, if the velum did not prevent this by the tension that it receives from the external peristaphyline muscles, and particularly by the contraction of its pillars; it thus becomes capable of resisting the action of the longue, and of contributing to the direction of the food towards the pharynx.

The muscles which determine more particularly the The muscles which determine more particularly the application of the tongue to the top of the palate, and to the velum of the palate, are the proper muscles of the organ, aided by the mylo-hyoideus. Here the first time of deginition terminates. Its motions are voluntary, except those of the velum of the palate. The phenomena happen slowly and in succession; they are few and easily noticed.

The second period is not the same; in it the pheno mena are simultaneous, multiplied, and are produced with such promptitude, that, Boerhaave considered

them as a sort of convulsion.

The space that the alimentary bolus passes through in this time is very short, for it passes only from the middle to the inferior part of the pharynx; but it was necessary to avoid the opening of the glottis and that necessary to avoid the opening of the goods and more of the masal canals, where its presence would be injurious. Besides, its passage ought to be sufficiently rapid, in order that the communication between the larynx and the external air may not be interrupted,

except for an instant.

Let us see how nature has arrived at this important The alimentary bole no sooner touches the pharvnx than every thing is in motion. pharynx contracts, embraces and retains the bole; the yelum of the palate, drawn down by its pillars, acts in the same way. On the other hand, and in the same instant, the base of the tongue, the os hyodes, the laryns, are raised and carried forward to meet the bole, in order to render its passage more rapid over the opening of the glottis. While the os hyoids, and the larynx are raised, they approach each other, that is, the superior edge of the thyroid cartilage engages itself behind the body of the os hyoides: the eligiottic gland is pushed back; the epiglottis descends, inclines downwards and backwards, so as to cover the en-trance of the larynx. The cricoid cartilage makes a motion of rotation upon the inferior horns of the thyroid, whence it results that the entrance of the larynx becomes oblique downwards and backwards. The bole slides along its surface, and being always pressed by the contraction of the pharynx and of the velum of

by the contraction of the pharynx and of the vehini of the palate, it arrives at the esophagus. It is not long since the position that the epiglottis takes in this place was considered as the only obstacle apposed to the entrance of the food into the larynx, at the instant of deglutition; but Dr. Magendie has shown, by a series of experiments, that this cause ought to be considered as only accessary. In fact, the emploities may be entirely taken away from an animal ought to be considered as only accessary. In fact, the epiglottis may be entirely taken away from an animal without deglutition suffering any injury from it. What is the reason, then, that no part of the food is introduced into the laryax the instant that we swallow? The reason is this. In the instant that the laryax is raised and engaged behind the os hyoides, the glottis solution that the greatest closeness. This motion is prostored. shuts with the greatest closeness. shits with the greatest closeness. This motion is parallely all the duced by the same muscles that press the glottle in the production of the voice; so that if an animal has the recurrents and nerver of the larynx divided, while the 287

epposes the introduction of food into the glottis.

Immediately after the alimentary bole has passed the glottis, the larynx descends, the epiglottis is raised, and the glottis is opened to give passage to the air.

After what has been said, it is easy to conceive why the food reaches the esoplagus without entering any of the openings which end in the pharynx. The velum of the palate, which, in contracting, embraces the pharynx, protects the posterior nostrils, and the orthogs of the Eustrachian tubes; the epiglottis, and particularly the motion by which the glottis shuts, preserves the larynx.

the motion by white are solution is accomplished; by the effects of which the alimentary bote passes the pharynx, and is engaged in the superior part of the æsophagus. Alt the phenomena which concur in it take place simultaneously, and with great promptitude: they are not subject to the will; they are then aligned in many respects from the phenomena that

different in many respects from the phenomena that belong to the first period. The third period of deglutition is that which has been studied with the least care, probably on account of the situation of the esophagus, which is difficult to be observed except in its cervical portion.

The phenomena which are connected with it are not complicated. The pharynx, by its contraction, presses the alimentary bole into the esophagus with sufficient the aumentary one into the asophagus with sumcent force to give a snitable dilatation to the superior part of this organ. Excited by the presence of the bolus, its superior circular fibres very 800p contract, and press the food towards the stomach, thereby producing the distension of those more inferior. These contract in their turn, and the same thing continues in succes In their turn, and the same thing continues in succession until the bolus arrives at the stomach. In the upper two-thirds of the æ-sophagus, the relaxation of the circular fibres follows immediately the contraction by which they displaced the alimentary bolus. It is not the same with the inferior third; this remains some moments contracted after the introduction of food into the stomach

All the extent of the mucous surface that the ali-All the extent of the mucous surface that the alimentary bolus passes in the three periods of deglutition is lubricated by an abundant mucosity. In the way that the bolus passes, it presses more or less the follicles that it meets in its passage, it empties them of the fluid that they contain, and slides more easily upon the mucous membrane. We remark that in those places where the bolus passes more rapidly, and is pressed with greater force, the organs for secreting mucus are much more abundant. For example, in the narrow space where the second period of deglutition takes, place there, are found the tonsils, the fungous narrow space where the second period of degidation takes place, there are found the tonsils, the fungoris papilla of the base of the tongue, the follicles of the velum of the palate, and the uvula, those of the epiglottia, and the arytenoid glands. In this case the saliva and the mucosity fulfil uses analogous to those of the arrowing. of the synovia

The mechanism by which we swallow the succeed-ing mouthfuls of food does not differ from that which

have explained.

Nothing is more easy than the performance of deglutition, and, nevertheless, all the acts of which it is composed are beyond the influence of the will and of instinct. We cannot make an empty motion of deglu-tition. If the substance contained in the mouth is not sufficiently chewed, if it has not the form, the consistence, and the dimensions of the alimentary bolus, if the motions of massions of the administratory proceeds deglicition have not been made, we will frequently find it impossible to swallow it, whatever efforts we make. How many people do we not find who cannot swallow a pill, or medicinal bolus, and who are obliged to fall upon other methods to introduce it into the oscoplagus I—Magendie.

DECMUS. (From dekisco, to gape wide.)
A spitting, or bursting open. Applied to capsules anthers, &c. of plants.

DELIDIER, Artnory, was son of a surgeon of Montpelier. Having graduated in medicine in 1691, he was six years after made pofessor of chemistry. In 1742, It ing appointed physician to the galleys, he went to Marseilles, where he died in 1746. He published, among many other works on different branches of methe motions of mastication which immediately p

epiglottis is untouched, its degluttion is rendered very difficult, because the principal cause is removed which those who died of the Plague," which occurred while those the introduction of food into the glottis.

Immediately after the alimentary bole has passed in uncertainty to the property of the There are three volumes of consultations and obserwations by him deserving of perusal. The rest of his works are scarcely now referred to.

DEINOSIS. (From ecrosos, to exaggerate.) An enlargement of the supercilia.

DEJECTIO. A discharge of any excrementitions matter; generally applied to the fæces: hence dejection

DEJECTO'RIA. (From dejicio, to cast out.) Purging medicine.

DELACHRYMATIVA. (From de, and lachryma, a ar.) Medicines which dry the eyes, first purging tear.) them of tears

DELA'PSIO. (From delabor, to slip down.) A falling down of any part, as the anus, uterus, or intes-

tines.

DELIGUESCENCE. Deliquistory from bnhew, to hurt or injure.) Of a poisonous nature; as opium, hemlock, henbane, &c.

[Deliquesce. To deliquesce is that action by which certain bodies become liquid by absorbing moisture from the atmosphere. Potash for instance by exposure to the air will absorb so much water as to change from a solid to a fluid state. This is common to many saline bodies. A.]

DELIQUESCENCE. Deliquation, or the spontaneous assumption of the fluid state of certain saline bodies, when left exposed to the air, in consequence of their attracting water from it.

DELIQUIUM. (Deliquium; from delinque, to

DELI'QUIUM. (Deliquium; from delinquo, to

DELIT (UTUM. (Detaputam; from detinguo, to leave.) A fainting. See Synopee.

DELIT'RIUM. (From deliro, to rave.) A febrile symptom, consisting in the person's acting of talking unreasonably. It is to be carefully distinguished from an alienation of the mind, without fever.

DELIT'UTUM. See Parturition.

DELOCA'TIO. (From de, from, and locus, a place.)

Deloca Tio. (From ve, from, and toeus, a piace.) A dislocation.
DELPHIA. See Delphinia.
DELPHINE. See Delphinia.
DELPHINIA. Dichphia. Delphine. A new vegetable alkali, resently discovered by Lasseigne and Feneulle, in Stavesacre. See Disphinium staphysa.

gria.
DELPHINIC ACID. gria.

DELPHINIC ACID. Acidum delphinicum. The name of an acid, extracted from the oil of the dolphin. It resembles a volatile oil; has a light lemon colonr, and a strong aromatic odour, analogous to that of rancid hatter. Its taste is paugent, and its vapour has a sweetened taste of actier. It is slightly soluble in water, and very soluble in alkohol. The latter solution strongly reddens litmus. 100 pas of delphinic acid neutralize a quantity of base, with a contains 9 of overeen, where e its prime southerload. oxygen, whence its prime equivalent appears to be 11.11.

DELPHINITE. See Epidote.

DELPHINIUM (From δελφινος, the dolphin.)

Larkspur; so called from the likeness of its flower to
the dolphin's head. The name of a genus of pleats in
the Linnean system. Class, Polyandria; Order, Tri-

the Linnean system. Class, Polyandria; Order, Triggmia.

["Delphinium or Larkspur. The botanical alliance of the larkspur of our gardens with acomite and some other poisonous plants, would justify, a pricori, a belief, that it possesses active properties. This is found on experiment to be the case. A timeture found by infusing an onace of the bruised seeds in a pound of spirit has been found an antispasmodic in astoma, and an active directic indropsy. The dase is from ten to tweaty drops. Larger doses are liable to massene, and would, not improbably, produce narcoit symptoms."—Big. Mat. Med. A.]

Dedenived a creative. Calcatrippa. Deblishment—nectarus manaphyliks, caude subdiviso, of Linneaus. Many virtues laye been attributed to this plant. The flowess are butter, and a water distilled from them is recommended in ophthalmia. The herb has been administered in calculous cases, obstructed menses, and

foisis palmatis, lobis obtusis, of Linnœus. The seeds, which are the only parts directed for medicinal use, are usually imported here from Italy; they are large, rough, of an irregular triangular figure, and of a black-ish colour on the outside, but yellowish within; their smell is disagreeable, and somewhat færid; to the taste they are very bitter, acrid, and nauseous. It was formerly employed as a masticatory, but is now confined to external use, in some kinds of cutaneous cruptions, but more especially for detection for the confined to external use, in some kinds of cutaneous cruptions. tions, but more especially for destroying lice and other insects: hence, by the vulgar, it is called louse-wort.

A new vegetable alkali has lately been discovered

in this plant by Lasseigne and Feneulle. It is thus

The seeds, deprived of their husks, and ground, are to be boiled in a small quantity of distilled water, and then pressed in a cloth. The decoction is to be filtered, and boiled for a few minutes with pure magnesia. ed, and boiled for a few minutes with pure magnessait must then be-refiltered, and the residuum left on the
filter is to be well washed, and then boiled with highly
rectified alkohol, which dissolves out the alkali. By
suaporation, a white pulverulent substance, presenting
a few crystalline points, is obtained.
It may also be procured by the action of dilute sulwhuric acid, on the bruised but unshelled seeds. The
colution of sulphate thus formed, is precipitated by
subcarbonate of potassa. Alkohol separates from
the registrate the generals alked in an impure state.

subcarbonate of potassa. Alkohol separates from this precipitate the vegetable alkali in an impure state. Pure delphinia obtained by the first process, is crys-Pure delphinia obtained by the first process, is crystalline while wet, but becomes opake on exposure to oir. Its taste is bitter and acrid. When heated it melts; and on cooling becomes hard and brittle like resm. If more highly heated, it blackens and is decomposed. Water dissolves a very small portion of it. Alkoholic solution renders syrup of violets green, and restores the blue tint of litmus reddened by an acid. It forms soluble neutral saits with acids. Alkalies receiving the delphinia in a with realtinguarative

precipitate the delphinia in a white gelatinous state, like alumina.

Sulphate of delphinia evaporates in the air, does not crystallize, but becomes a transparent mass like gum.

crystallize, but becomes a transparent mass like gum. It dissolves in alkohol and water, and its solution has a bitter acrid taste. In the voltaic circuit it is decomposed, giving up its alkali at the negative pole. Nitrate of delphinia, when evaporated to dryness, is a yellow crystalline mass. If treated with excess of nitric acid, it becomes converted into a yellow mater, little soluble in water, but soluble in boiling alkohol, This solution is bitter, is not precipitated by potassa, ammonia, or lime-water, and appears to contain no nitric acid, though itself is not alkaline. It is not destroyed by further quantities of acid, nor does it form oxalic acid. Strychnia and morphia take a red colour from nitric acid, but delphinia never does. The muriate is very soluble in water.

The acetate of delphinia does not crystallize, but forms a hard transparent mass, bitter and acrid, and readily decomposed by cold sulphuric acid. The oxalate forms small white plates, resembling in taste the preceding salts.

preceding salts.

preceding salts.

Delphinia, calcined with oxide of copper, gave no other gas than carbonic acid. It calsts in the seeds of the stavesacre, in combination with matte acid, and associated with the britowing principles: 1. A brown bitter principle, precipitable by acetate of lead. 2. Volatile oil. 3. Fixed oil. 4. Albumen. 5. Animalized matter. 6. Mucus. 7. Saccharine mucus. 8. Vellow bitter principle, not precipitable by acetate of ead. 9. Mineral salts.—Annales de Chimic et de Physique, vol. xii. p. 358.

DELPHYS. Δελφυς. The uterus, or pudendum smiliebre.

DELTA. (The Greek letter, Δ.) The external pudendum muliebre is so called, from the triangular shape of its hair.

DELTOI DES. (From δελτα, the Greek letter Δ,

DELTOIDES. (From  $\delta \epsilon \lambda \tau a$ , the Greek letter  $\Delta$ , and  $\epsilon \iota \delta o s$ , a likeness; shaped like the Greek delta.) 1. and xbos, a likeness; shaped like the Greek delta.) I. A muscle of the superior extremity, situated on the shoulder. Sous-acromio-clavi-humeral of Dumas. It arises exactly opposite to the trapezius, from one-third part of the clavicle, from the acromion and spine of the scapula, and is inserted, tendinous, into the middle of the os humeri, which bone it lifts up directly; and it assists with the supraspinatus and coracobrachatis in all the actions of the humerus, except the depression. It before convenient that the arm should be sion; it being convenient that the arm should be

Absence of intellect; nadness; fatuity.

DEMERSUS. A leaf which is naturally under water, and different from those above, is so called; folia immersa, and submersa, are the same as demersa.

Matures.

DEMULCENT: (Demulcens; from demulceo, to soften.) Medicines suited to obviate and prevent the action of acrid and stimulant matters; and that not by correcting or changing their acrimony, but by involving it in a mild and viscid matter, which prevents it from acting upon the sensible parts of our bodies, or by covering the surface exposed to their action.

Where these substances are directly applied to the many affected, it is easy to purgerye how benefit may

be derived from their application. But where they are received by the medium of the stomach, into the circulating system, it has been supposed that they can be of no utility, as they must lose that viscidity on which their lubricating quality depends. Hence it has been concluded that they can be of no service in gonorrhea, and some similar affections. It is certain, however, and some similar affections. It is certain, however, says J. Murray, in his Elements of Materia Medica and Pharmacy, that many substances which undergo the process of digestion are afterward separated, in their entire state, from the blood, by particular secrettheir entire state, from the blood, by particular separa-ing organs, especially by the kidneys; and it is possi-ble, that mucilaginous substances, which are the prin-cipal demulcents, may be separated in this manner. There can be no doubt, however, but that a great share of the relief demulcents aflord, in irritation or inflammation of the urinary passages, is owing to the large quantities of water in which they are diffused, by which the urine is rendered less stimulating from dilution. In general, demulcents may be considered merely as substances less stimulating than the fluids usually

applied.

Catarrh, diarrhea, dysentery, calculus, and gouor-rhea, are the diseases in which denulcents are employed. As they are medicines of no great power, they may be taken in as large quantities as the stomach

can bear.

can near.

The particular demulcents may be reduced to the two divisions of mucilages and expressed oils. The principal demulcents are, the acacia vera, astragalus, tragacanthe, linum usitatissimum, althea officinalis, malva, sylvestris, glycyrrhiza glabra, cycas circinalis, orchis mascula, maranta arundinacca, triticum hyber num, ichthyocoila, olea Europiea, amygdalus communis, cetaceum, and cera.

[Dendritic. (Prom δενδρω, a tree.) A term used in mineralogy to designate those appearances frequently found in minerals resembling trees or clusters.

of trees. A.]
DENDROLI'BANUS. (From δενδρον, a tree, and ολιβανος, frankincense.) Frankincense-tree. See Rosmarinus afficinalis.

DENS. (Dens, tis. m.; quasi edens; from edo, to eat, or from odovs, odov?os.)

1. A tooth. See Teeth.
2. Many herbs have this specific name, from their fancied resemblance to the tooth of some animal, as Dens konts, the dandelion; Dens canis, dog's tooth, &c.

tooth, &c.

Dens caninus. See Teeth.

Dens custipatis. See Teeth.

Dens incisor. See Teeth, and Dentition.

Dens lacteus. See Teeth, and Dentition.

Dens leonis. See Leonidon Tatalacum.

Dens Molaris. See Teeth, and Dentition.

Dens Molaris. See Teeth, and operayon; from odous, a tooth, and ayon, a seizure.) 1. The toothache.

2. An instrument for drawing the teeth.

DENTA'RIA. (Dentaria; from dens, a tooth: so called because its root is denticulated.) See Plumbaga. called because its root is denticulated.) See Plumbaga

europæa.

DENTARPA'GA. (From οδους, a tooth, and αρπαζω, to fasten upon.) An instrument for drawing of teeth.

DENTATA. See Dentatus.

DENTA'TUS. (From dens, a tooth; from its tooth-ke process.) 1. The second vertebra of the neck. Dentata; Epistrophæus. It differs from the other DENTA 1 Co.

like process.) 1. The second vertebra of the neckon Dentata; Epistrophous. It differs from the other cervical vectors, by having a tooth-like process at the upper part of the body. See Vertebra.

2. Toothed: applied to roots, leaves, petals, &c. which is restaurable, borizontal, rather distant

2.100meu.appractorous peares, perus, ec. winen are beset with projecting, horizontal, rather distant teeth of its own substance; as in the leaf of Atriplex Lucanata, and the perial thium of Marrubium wulgare, and Ereca denticulata, and the petals of the Silenc lucitanica. The Ophris corallorhiza has a toothed

DENTELLA'RIA. (From dentella, a little tooth; so called because its root is denticulated.) The herb

oth-wort. See Plumbago europæa.
DENTIDU'CUM. (From dens, a tooth, and duco,

DENTIFICE. (Pentifricus; a tooth, and acco, to draw.) An instrument for drawing of teeth.

DENTIFRICE. (Dentifricus; from dens, a tooth, and frigo, to rub.) A medicine to clean the teeth.

DENTIFICAL (Plum. (From dens, a tooth, and scalpo, to scrape.) An instrument for scaling teeth.

DENTIFION. (Dentito; from dens, o tooth, and scalpo, to scrape.) An instrument for scaling teeth.

DENTIFION. (Dentito; from dens, o toeth, and the teeth are the teeth. The first dentition begins about the sixth or seventh mouth, and the teeth are termed cutting of the feeth. The first derittion begins about the sixth or seventh month, and the teeth are termed the primary or milk teeth. About the seventh year, these fail out, and are succeeded by others, which remain during life, and are called the secondary or perennial teeth. The last dentition takes place between the ages of twenty and five-and-twenty, when the four list grinders appear; they are called dentes sapientia. See also Treth

DENTODUCUM. See Dentiducum.

DENUOLEE PLANTE. The name of an order of Linnaus's Fragments of a Natural Method, embracing those plants, the flowers of which are naked, or with-

DENUDA'TIO. (From denudo, to make bare.)
The laying bare any part; usually applied to a

DENUDATUS. (From denudo, to strip naked.)

Denude; naked. DEOBSTRUENT. DEOBSTRUENT. (Deobstruens; from de, and obstrue, to obstruct.) A medicine that is exhibited with a view of removing any obstruction.

DEOPPILA'N'IIA. (From dc, and oppilo, to stop.)

Deoppilatira. Medicines which remove obstructions. DEPARTITIO. (From de, and partior, to divide.) Separating metals.

Separating metals.

Derrapt'tto. (From dependo, to lose.) Abortion, of the undue loss of the fectus.

Depetr'GO. (From de, and petigo, a running scab.)

A ringworm, tetter, scurf, or itch, where the skin is

DEPHLEGMA'TION. (Dephlegmatic); from de, and phlegmo, phlegmo, Die operation of rectifying or freeme spirits from their watery parts, or any method by which bodies are deprived of their water.

DEPHLOGISTICATED A term of the old chemistry, mapking deprived of phlegiston or the high-fram-

mable principle.

Dephlogisticated air. See Oxygen gas.

Dephlogisticated muriture acid. See Chlorine.

DEPHLATORY. (Dephlorius; from de, of, and pilus, the hair.) Any application which removes the hairs from any part of the body; thus, a pitch cappulls the hairs of the head out by the roots.

pulls the hairs of the head out by the roots.

[A depitatory ointiment is sometimes used to remove hairs from inconvenient places. The French call it Pate depitatorie, a depilatory paste. It is made with quick time, lapis calaminaris, and arsenic, intimately united and made into a thin paste with a little water, and a thin coat spread upon the surface. The hairs are removed by the action of the arsenic as a caustic, but its action is modified by the other ingredicate.

ents. A.]
DEPLU'MATIO. DEPLU MATIO. (From de, and pluma, a feather.) A disease of the eyelids, which causes the bair to fail off. DEPREHENSIO. (From deprojemed, to catch unawares.) The epidepsy is so called, from the sudden-

awares.) The epicepsy is so called, from the suddenness with which persons are seized with it.

DEPRESSION. (Depressio; from deprimo, to press down.) When the bones of the skull are forced inwards by fracture, they are said to be depressed.

DEPRESSOR. (From deprimo, to press down.)

A muscle is so termed, which depresses the part on which it are

which it acts.

DEPRESSOR ALE NASI. See Depressor labii suptis alwque nasi.

Depressor angular nass.

Depressor angular logis. A muscle of the mouth and lip, situated below the under lip. Triangularis, of Winslow. Depressor labiorum.communis, of Douglas. Depressor lobiorum, of Cowper. Sous-maxillo-labial of Dumas. It arises broad and fleshy, from the lower edge of the lower jaw, near the chin; and is inserted into the angle of the mouth, which it pulls downwards.

DEPERSOR LABII INFERIORIS. A muscle of the mouth and lip. Quadratus, of Winslow. Depressor labii inferioris proprius, of Douglas and Cowper. Mentonure labial, of Dumas. It pulls the under lip and skin of the side of the chin downwards, and a

little outwards.

DEPRESSOR LABIT SUPERIORIS ALÆQUE NASI. Depressor Labii Superioris aleque nasi. A muscle of the mouth and lip. Depressor ale nasi, of Albinus. Incisivus medius, of Winslow. Depressor labii superioris proprius, of Douglas. Constrictores alarum nasi, ac depressores labii superiores, of Cowper. Mazillo-alveoli nasal, of Dumas. It is situated above the mouth, draws the upper lip and ala nasi downwards and backwards. It arises, thin and fleshy, from the superior maxillary bone, immediately above the joining of the gums, with the two incisor teeth and cuspidatus; from thence it runs upwards, and is inserted into the upper lip and root of the ala of the

Depressor labit superioris proprius. See De-pressor labit superioris alæque nasi.

DEPRESSOR LABIORUM COMMUNIS. See Depressor anguli oris.
Depressor oculi. See Rectus inferior oculi

DEPRESSUS. Depressed; flattened vertically, as the leaves of the Mesembryanthemum linguiforme. Folia depressa is applied also to radical leaves which are pressed close to the ground, as is seen in Plantago media; but when applied to stem leaves, it regards their shape only, as being vertically flattened in op-

position to compressa.

DEPRIMENS. See Rectus inferior oculi.

DEPURA'NTIA. (Dépurans; from depuro, to make clean.) Medicines which evacuate impurities.

DEPURA'TION. Depuratio. The freeing a liquor

or solid from its foulness.

DEPURATO'RIUS. (From de, and purus, pure.)
Depuritory: applied to fevers, which terminate in perspiration

DERBYSHIRE SPAR. A mineral formed of calcareous earth with fluoric acid.

DE RIS. (Δερις; from δερω, to excoriate.) The

DERIVATION. (Derivatio; from derivo, to drain off.) The doctrines of derivation and re-of by the ancients, are now, in their sense of the terms, wholly exploded. Derivation means the drawing DE'RMA

DE'RMA. Δερμα. The skin. See Skin. DERMATO'DES. (From δερμα, skin, and ειδος, a ceness.) Resembling skin, or leather; applied to the

increases, assembling skin, of leather; applied to the dura mater. DERMATOLO'GIA. (From  $\delta \epsilon \rho \mu a$ , the skin, and  $\lambda \sigma \gamma \sigma s$ , a discourse.) A discourse or treatise on the skin.

De'arron. (From depis, skin.) The omentum, and peritoneum, are so named, from their skin-like

DESAULT, PETER, was a native of Bordeaux, where he graduated, and became distinguished as a practitioner in medicine about the beginning of the practitioner in medicine about the beginning of the last century. He was author of some popular and useful dissortations on medical subjects. In syphilis he maintained that a cure could be effected without salivation; and in calculous complaints, by the patient drinking the Bareges water, this being also injected into the bladder; but it probably merely palliated the symptoms. He exposed also some of the prevailing errors concerning hydrophobia; as that the patient barked like a dog, and had a propensity to bite his attendants. The precise period of his death is not mentioned. mentioned

DESAULT, PETER JOSEPH, was chief surgeon to the Hotel-Dieu at Paris. He published several numbers of a surgical journal, in 1791, &c.; also, jointly with Chopart, in 1794, "A Treatise on Chirurgical

Diseases, and the Operations required in their Cure;" sent, where a second part suffers, from consent, with which is allowed to have considerable merit. He the part originally affected, as where the stomach is Mischaeses, and the Operations required in the which is allowed to have considerable merit. He attended the young King of France, Lewis XVII., in the temple; and died under suspicious circumstances,

the temple; and died under suspicious circumstances, shortly before his royal patient, in 1795.

DESCENSO'RIUM. (From descendo, to move downwards.) A vessel in which the distillation by descent is performed.

DESCE'NSUS. (From descendo, to move downwards.) The same chemists call it a distillation per descensum, by descent, when the fire is applied at the top and round the vessel, the orifice of which is at the bottom.

DESICCATI'VE. (Desicativus; from desicco, to dry up.) An application to dry up the humours and moisture running from a wound or ulcer. DESICCATI'VE.

DESIPIE'NTIA. (From desipio, to dote.) A de-

fect of reason.

DESIRE. Will. We give the name of will to that modification of the faculty of perception by which we form desires. It is generally the effect of our judgment; but what is remarkable, our happiness or our misery are necessarily connected with it. When we satisfy our desires we are happy; but we are miserable if our desires be not fulfilled; it is then necessary to give such a direction to our desires that we may be enabled to obtain happiness. We ought not to desire things which cannot be obtained; we ought to avoid, even with greater care, those things which are hurtful; for in such cases we must be unhappy, whether our de-sires are satisfied or not. Morality is a science which tends to give the best possible direction to our desires.

DE'SME. (From δεω, to bind up.) A bandage, or

DESMI'DION. (From δεσμη, a handful.) A small bundle, or little bandage.

(From δεω, to bind up.) 1. A bandage. DE'SMOS. 2. An inflammatory stricture of a joint, after luxa-

tion.

DE'SPUMATION. (Despumatio; from despumo, to clarify.) The clarifying a fluid, or separating its foul parts from it.

DESQU'AMATION. (Desquamatio; from desquamo, to scale off.) The separating of laminæ, or scales, from a bone. Exfeditation.

DESQUAMATO SIUM. (From desquamo, to scale off.) A trepan, or instrument to take a piece out of the skull

DESTILLA'TION. See Distillation. DESUDA'TIO. (From desudo, to sweat much.)

DESCRIPTION (From desired, to stock mach)
An unnatural and morbid sweating.
DETE'NTIO. (From detired, to stop, or hinder.)
Epilepsy is so called, from the suddenness with which the patient is seized.

DETERGENT. (From detergo, to wipe away.)

1. A medicine which cleanses and removes such viscid humours as adhere to and obstruct the vessels.

2. An application that clears away foulness from

ulcers.

DETERMINATE'. Applied by botanists to branches and stems: determinate ramosus is abruptly branched, when each branch, after terminating in flowers, produces a number of fresh shoots, in a circular order, from just helow the origin of those flowers. The term occurs frequently in the latter publication of Linnæus, particularly the second Mantissa; but he does not appear to have any where explained its meaning.-

DETONATION. (Detonatio; from detono, to make a noise.) A sudden combustion and explosion. DETRA'CTOR. (From detraho, to draw.) Applied to a muscle, the office of which is to draw the part to which it is attached.

DETRAHENS. (From detraho, to draw.) The name of a muscle, the office of which is to draw the part it is etteched to.

part it is attached to.

DETRAHENS QUADRATUS. See Platysma myoides. DETRU'SOR URINÆ. (From detrudo, to thrust out.) 1. The name of a muscle, the office of which is to squeeze out the urine.

The muscular coat of the urinary bladder was

DEUTERI. (From dev7epos, second: because it is discharged next after the feetus.) The secundines, or after-birth.

DEUTEROPA'THIA. (From δευ Γερος, second, and statos, a suffering.) An affection or suffering by con-

the part originally affected, as where the stomach is disturbed through a wound in the head. DEUTOKIDE. See Oxide.

DEUTOKIDE. See Oxide.

DEVENTER, HENRY, was born in Holland, toward the end of the 17th century. He took a degree in medicine, but his practice was principally in surgery, and at last almost confined to midwiery. He distinguished hjusself much by his improvements in this art, as well as by his mechanical inventions for obviating deformities in children. He published some obating deformities in children. He published some obating determines in culturen. He published some ob-stetrical works several years prior to his death, which occurred in 1739; after which appeared a Treatise on the Rickets in his native language, of which Haller

the kickets in his native language, of which Haller makes favourable mention.

Devil's duag. See Ferula assafatida.

Devoberry. See Blackberry.

DIA. Ala. Many terms in medicine, surgery, and pharmacy, commence with this word, when they significantly into and within a set. nify composition and mixture; as Diacussia, Diacastoreum, &c.

toreum, &c.

[Diabase. The Diabase of some French mineralogists is the greenstone of Werner and Jameson, Greenstone abounds in the United States. There is a long ridge of this kind of rock in Connecticut running northward from New-Haven. There are several ridges of this formation of superincumbent rocks in New-Jersey. The most remarkable is the ridge borridges of this formation of superincumbent rocks in New-Jersey. The most remarkable is the ridge bor-dering the Hudson river on the west side, running north from New-York city to the extent of thirty or forty miles, and known by the common appellation of the Paisado Rocks. There is a sublime show of this kind of rock on the south side of Lake Superior. Diabase or "Greenstone is essentially composed of

Diabase or "Greenstone is essentially composed of hornblende and felspar, in the state of grains, or sometimes of small crystals. The proportions are somewhat various; but the hornblende predominates, and very frequently gives to this aggregate more or less of a greenish tinge, especially when it is moistened. Hence the name of this rock (Greenstone). Sometimes the tinge of green is considerably lively, and may arise either from the hornblende, or from Epidote disseminated through the mass. Sometimes also its colour is dark gray, or grayish black. In fine, its colour, especially at the surface, is often modified by the presence of oxide of iron. of oxide of iron,
"This rock presents a considerable variety of as-

"Ins rock presents a considerable variety or an epect, depending on the general structure, or on the size, proportion, disposition, and more or less intimate mixture of its constituent parts.

"In some of the more common varieties, the two ingredients are in distinct grains of considerable size, like those of granite; and the foliated structure both of the homblende and felspar is often distinctly The proportion of felspar is sometimes very

"From Greenstone with a coarse granular structure. "From Greenstone with a coarse granular structure, to those varieties whose texture is so finely granular that the two ingredients can scarcely be perceived, there is a gradual passage, exhibiting every intermediate step. Indeed the grains are sometimes so minute, and so uniformly and intimately mingled, that the mass is altogether homogeneous, and the different ingredients are hardly perceptible, even with a glass. Hence the texture of this rock is sometimes distinctly exystalline, and sometimes almost compact and crystalline, and sometimes almost compact and

"Greenstone, like basalt, sometimes presents itself in prisms, or columns of various sizes. may have from three to seven sides, and are sometimes

may have from three to seven sides, and are sometimes as regular as those of basalt.

"The general aspect of Greenstone is sometimes much diversified by the foreign ingredients, which it admits into its composition. Among these are quartz, epidote, mica, tale, carbonate of lime, and almost always sulphuret of iron, which is sometimes magnetic.—The quartz is, in some cases abundant, and seems almost to take the place of felspar. Iron frequently enters into the composition of this rock. Hence the period of the weather, its exterior becomes by exposure to the weather, its exterior becomes brownish or restdish brown; and sometimes Greenstones are gradually decomposed.

"Many Greenstones are susceptible of a polish;—and that variety which admits epidote into its compositions often forms a very beautiful mineral, when polished, especially if it be porphyritic. Its colour is

often a fine dark green, resembling serpentine. The debility arises, the pulse is frequent and small, and sate epidote, either crystallized or compact, is sometimes in obscure fever, with all the appearance of heetic, prooften a line dark green, resembling serpentine. The epidote, either crystallized or compact, is sometimes in very narrow velus; and sometimes it is uniformly disseminated in very minute grains. In other cases, the epidote and felspar form a kind of base, containing accoular crystals of bornblende; or the three tagredients are distinct, as in granite."—Cleaveland's Minute and Minute

DIABE CUS. (From διαδεδαιοω, to strengthen; so called, as affording the chief support to the foot.) The

ankle-none.

DIABETES. (From ôta, through, and βaινω, to pass.) An immoderate flow of urine. A genus of disease in the class Neuroses, and order Spasmi of Cullen.

There are two species in this complaint:

1. Diabetes insipidus, in which there is a superabundant discharge of limpid urine, of its usual urinary taste.

taste.

2. Diabetes mellitus, in which the urine is very sweet, and contains a great quantity of sugar. Great thirst, with a voracious appetite, gradual emaciation of the whole body, and a frequent discharge of urine, containing a large proportion of saccharine and other matter, which is voided in a quantity even exceeding that of the aliment or fluid introduced, are the characteristics of this disease. Those of a shattered constitution, and those who are in the decline of life, are most subject to its attacks. It not unfrequently attends on hysteria, hypochondriasis, dyspepsia, and asthma: but it is always much milder when symptomatic, than when it appears as a primary affection.

Diabetes may be occasioned by the use of strong di-uretic medicines, intemperance of life, and hard drinking; excess in venery, severe evacuations, or by any thing that tends to produce an impoverished state of the blood, or general debility. It has, however, taken place, in many instances, without any obvious cause. That which immediately gives rise to the disease, has ever been considered as obscure, and various theories have been advanced on the occasion. It has been

ories have been advanced on the occasion. It has been usual to consider diabetes as the effect of relaxation of ories have been advanced on the occasion. It has been usual to consider diabetes as the effect of relaxation of the kidneys, or as depending on a general colliquation of the fluids. Dr. Richter, professor of medicine in the university of Gottingen, supposes the disease to be generally of a spasmodic nature, occasioned by a stimulus acting on the kidneys; hence a secretic aucta. 277122, and sometimes proversa, is the consequence. Dr. Darwin thinks that it is owing to an inverted action of the urinary branch of the lymphatics; which doctrine, although it did not escape the censure of the best anatomists and experienced physiologists, met, nevertheless, with a very favourable reception on its being first announced. The late Dr. Cullen offered it as his opinion, that the proximate cause of this disease might be some fault in the assimilatory powers, or in those employed in converting alimentary matters into the proper animal fluids, which theory has since been adopted by Dr. Pobson, and still later by Dr. Rolla, surgeon-general to the royal artillery. The liver has been thought, by some, to be the chief source of the disease; but diabetes is hardly ever attended with any affection of this organ, as has been proved by frequent dissections; and when observed, it is to be considered as accidental.

The primary seat of the disease is however for

as accidental.

The primary sent of the disease is, however, far from being absolutely determined in favour of any hypothesis yet advanced; and, from the most attentive consideration of all the circumstances, the weight of evidence appears to induce the majority of practitioners to consider diabetes as depending on a primary affection of the kidneys.

Diabetes sometimes comes on slowly and imperceptive that without any resulting and imperceptions.

The urine in diabetes mellitus, from being at first Insipid, clear, and colourless, soon acquires a sweetish or saccharine taste, its leading characteristic; and, when subjected to experiment, a considerable quantity of saccharine matter is to be extracted from it. Someof saccharine matter is to be extracted from it. Some-times it is so loaded with sugar, as to be capable of being fermented into a vinous liquor. Upwards of one-twelfth of its weight of sugar was extracted from some diabetic urine, by Cruickshank, which was at the rate of twenty-nine ounces troy a day, from one patient.

In some instances, the quantity of urine in diabetes is much greater than can be accounted for from all the sources united. Cases are recorded, in which 25 to 30 pints were discharged in the space of a natural day, 30 pms were discharged in the space of a natural day, for many successive weeks, and even months; and in which the whole ingesta, as was said, did not amount to haif the weight of the urine. To account for this overplus, it has been alleged that water is absorbed from the air by the surface of the budy; as also that a quantity of water is compounded in the lungs them-

Dissections of diabetes have usually shown the kid-Dissections of diabetes have usually snown the Ridneys to be much affected. In some instances, they have been found in a loose flabby state, much enlarged in size, and of a pale ash colour; in others, they have been discovered much more vascular than in a healthy state, approaching a good deal to what takes place in inflammation, and cantaining, in their infundibula, a quantity of whitish fluid, somewhat resembling pus, but without any sign of ulceration whatever. At the same time that these appearances have been observed. same time that these appearances have been observed in their interior, the veins on their surface were found to be much fuller of blood than usual, forming a most beautiful to the track of the control to be much fuller of blood than usual, forming a most beautiful net-work of vessels, the larger branches of which exhibited an absorbent appearance. In many cases of dissection, the whole of the mesentery has been discovered to be much diseased, and its glands re-markably enlarged; some of them being very hard, and of an irregular texture; others softer, and of a uniform spherical shape. Many of the lacteals have likewise been seen considerably enlarged. The liver, Pancreas, subsen, and stomach are in general preciving pancreas, spleen, and stomach, are in general perceived to be in a natural state; when they are not so, the occurrence is to be considered as accidental. The bladder in which they are not so, the occurrence is to be considered as accidental.

to be in a natural state; when they are not so, the occurrence is to be considered as accidental. The bladder, in many cases, is found to contain a considerable quantity of muddy urine.

A great variety of remedies has been proposed for this disease; but their success is generally precarious, or only temporary, at least in the mellitic form of the complaint. The treatment has been generally conducted on the principles of determining the fluids to other outlets, particularly the skin, and of increasing the tone of the kidneys. Diaphoretics are certainly very proper remedies, especially the combination of opium with ipecacuanha, or antimonials, assisted by the warm bath, suitable clothing, and perhaps removal to a milder chimate; in the insight form of diabetes, this plan has sometimes effected a cure; and it appears that the large use of opium has even the power of correcting, for the time, the saccharine quality of the arine. Cathartics are hardly of service, farther than to keep the bowels regular. Tonics are zenerally indicated by obvious marks of debility; and if the patient be troubled with acidity in the prime vie, alkaline medicines will be properly joined with them, preferring those which have no diuretic power. Astringents have been highly extelled by some practitioners, but do not anoney likely to prevail event these which have to mean a content of the co medicines will be properly joined with them, prefer-ring those which have no diurcite power. Astringents have been highly extolled by some practitioners, but do not appear likely to prevail, except those which pass off by the urine, as uva ursi; or the milder sti-mulants, which can be directed to the kidneys, as co-paiba, &c. may correct the laxity of those organs, if the disease depend on this cause. The tinetural ytte-must be used with great caution, and its efficacy is not well established: and blisters to the loins can only be useful as counter-irritants, though not the most suit-able. Frequent friction, especially over the kidneys Diabetes sometimes comes on slowly and imperceptibly, without any previous disorder; and it now and then arises to a considerable edgree, and subsists long without being accompanied with evident disorder in any particular part of the system: the great thirst which always, and the voracious appetite which frequently occur in it, being often the only remarkable symptoms; but it more generally happens, that a considerable affection of the stomach precedes the coming on of the disease; and that, in its progress, besides the symptoms already mentioned, there is a great dryness in the skin, with a sense of weight in the kidneys, and a pain in the ureters, and the other urinary passages. Under a long continuance of the disease, the body becomes much emaciated, the feet adematous, great the standard of the stems of the disease; and the other urinary passages. Under a long continuance of the disease, the body becomes much emaciated, the feet adematous, great the standard of the same of the disease depend on this cause. The tinetura lyttse well established: and blisters to the loins can only be useful as counter-irritants, though not the most suitable. Frequent friction, and its efficacy is not self-using the standard of the same of the disease depend on this cause. The tinetura lyttse well established: and blisters to the loins can only be useful as counter-irritants, though not the most suitable. Frequent friction, and its efficacy is not the standard of the standard of

restricting the patient to a diet principally of animal food, avoiding especially those vegetables which might afford saccharine matter, the urine becoming thereby of a more healthy quality, and diminishing in quan-tity: but unfortunately the benefit appears but temporary, and the plan is not persevered in without distre to the patient. The same gentleman recommended also the sulphuret of potassa, and still more the hydrosulphuret of ammonia; but they are very nau-seous medicines, and of doubtful efficacy. Another plan of treating the disease has been more recently proposed, namely, by bleeding, and other antiphlogistic measures; and some cases of its success have been recorded: but farther experience is certainly required, before we should be justified in relying much upon it.
Dia Bolus METALLORUM. Tin.

DIABO TANUM. (From δια, and βοτανη, an herb.)

A plaster made of herbs.

A plaster made of herbs. Direct parts of herbs, and  $\kappa a \delta \mu a_0$ , cadmia.) The mame of a plaster, the basis of which is cadmia. Directant names. (From  $\delta a_0$ , and  $\kappa a \delta a \mu a \nu \theta \eta$ , calamint.) The name of an antidote, the chief ingredient in which is calamint.

DIACA REINUM. (From Sia, and Kapkivos, a crab.)
The name of an antidote prepared from the flesh of crabs and cray-fish.

DIACA'RYON. (From dia, and kappor, a nut.) Rob

of nuts, or walnuts. DIACA SSIA. (From δια, and κασσια, cassia.) Elec-

Diacastro Rium. (From δια, and κας ωρ, castor.) An antidote, the basis of which is castor. Diacatho'licon. (From δια, and καθολικος, universal.) The name of a purge, so called from its

general usefulness. (From δια, and κεν Javotov, cen-DIACENTAU'RIUM. taury.) The Duke of Portland's powder is so called,

Decause its chief ingredient is centaury.

Diagentro'tum. (From δια, and κεν ζοοω, to prick.)

A collyrium, so called from its pungency and stimula-

ting qualities.

DIACHALCI'TIS. (From δια, and χαλκίζις, chalcitis.) A plaster, the chief ingredient in which is chalcitis. DIACHA'LSIS. (From διαχαλω, to be relaxed.) 1. A relaxation.

2. The opening of the sutures of the head.

2. The opening of the satures of the head.
Diagnostic State (From δια, and χειρ, the hand.)
Any operation performed by the hand.
Diagnostic Now. (From δια, and χειλιδωνίον, relaudine.) A plaster, the chief ingredient in which was the herb celandine.

Diachore' MA. (From διαχωρεω, to separate from.)
Diachoresis. Any excretion, or excrement, but chiefly that by stool.

DIACHRI'SIA. (From δια, and χριω, το anoint.)

Medicines to anoint parts.

Diaches to anoint parts.

Diaches to anoint parts.

Places to anoint parts.

Orange and xouses, gold.) A
plaster for fractured limbs; so named from its yellow colour

DIA'CHYLUM. (From &c, and \chivate\_oto\_s, juice.) A plaster formerly made of certain juices, but it now means an emoilient digestive plaster.

(From δια, and χυω, to pour out.) DIA CHYSIS.

Fusion or melting.

DIACHY TICA. (From διαχυω, to dissolve.) Medicines which discuss tumours.

DIACINE'MA. (From bia, and knew, to move.) A slight dislocation.

Diacr'ssum. (From &a, and ktogos, ivy.) An application composed of ivy leaves.

Dia Class. (From δια, and χλαω, to break.) A

DIACLY'SMA. (From διακλυζω, to wash out.) gargle or wash for the mouth.

(From Sea, and κοκκυμηλον, a DIACOCCYME'LON. plum.) An electuary made of prunes.

DIACO DIUM. (From dea, and κωδια, a poppy head.)

A composition made of the heads of poppies.

Diacology nthis. (From δια, and κολοκονθις, the colocynth.) A preparation, the chief ingredient of

which is colocynth.

Dlaco'mna. (From διακοπ7ω, to cut through.)

Diacope. A deep cut or wound.

Dia cope. See Diacomma.

Diacope x' Gia. (From δια, κοπρος, dung, and αιξ, a goat.) A preparation with goat's dung.

Diacora'llow. (From δια, and ποραλλιον, cotal.) A preparation in which cornt is a chief ingredient. Dia-Crists. (From διακρινο, to distinguish.) The distinguishing diseases one from another by their symptoms.

DIACRO CIUM. (From δια, and κροκος, saffron.) A

Diacero cion. (From bary) collyrium in which is saffron. Diacereu Ma. (From δια, and κυρκουμα, turmeric.) An antidote in which is turmeric or saffron.

DIACYDO'NIUM. (From δια, and κυδωνια, a quince.) Marmalade of quinces

Marinalaite of quinces.

DIADAPHNI DION. (From δια, and δαφως, the laurelines.) A drawing plaster in which were bay-berries.

DIADE LPHIA. (From δις, twice, and αδελφις, a brotherhood; two brotherhoods.) The name of a class in the sexual system of plants, embracing those the flowers of which are hermaphrodites, and have the male organs united below in two sets of cylindrical fila-

DIADE'MA. (From διαδεω, to surround.) 1. A diadem or crown.

2. A bandage to put round the head.

DIADE XIS. (From oradexouat, to transier.) Diadoche. A transposition of humours from one place to another.

DIA DOCHE. See Diadexis. DIA DOSIS. (From διαδιδωμι, to distribute.) The

Parabolis. (From διαιρεω, to divide or separate.)
A solution of continuity of the soft parts of the human

DIERE'TICA. (From διαιοςω, to divide.) Corrosive medicine

•DIA: TA. (From  $\delta \iota a \iota 7 a \omega$ , to nourish.) Diet; foodt means also the whole of the non-naturals. See

Diaglau'cium. (From δια, and γλαυκιον, the blue juice of an herb.) An eye-water made of the purging

DIAGNO'SIS. (From διαγινωσκω, to discern or distinguish.) The science which delivers the signs by which a disease may be distinguished from another disease: hence those symptoms which distinguish such affections are termed diagnostic.

Diagry' Dum. Corrupted from dacrydium or scam-

Diahermoda'cTYLUN. (From δια, and ερμοδακ Γυλος, the hermodactyl.) A purging medicine, the basis of which is the hermodactyl.

DIAT'REON. (From dia, and ipis, the lily.) An antidote in which is the root of the lily.

DIAI'UM. (From dea, and eov, a violet.) A pastil, the chief ingredient of which is violets.

DIALA'CCA. (From dea, and hakka.) An antidote in which is the lacea.

Dialago'um. (From δια, and λαγως, a hare.) A medicine in which is the dung of a hare.

DIALE'MMA. (From SialauBavw, to interrupt.) The

remission of a disease

DIALE PSIS. (From διαλαμβανω, to interrupt.) L. An intermission.

2. A space left between a bandage

Dialibanum. (From dia, and hisavow, frankincense.) A medicine in which frankincense is a chief ingredient

DIALLAGE. Smaragdite of Saussure. Verde di Corsica duro of artists. A species of the genus Schil-ler spar. It is a mineral of a greenish colour, com-posed of silica, alumina, magnesia, lime, oxide of iron, oxide of copper, and oxide of chrome. It is found principally in Corsica.

(From δια, and αλοη, the aloe.) A me-DIA LOES. dicine chiefly composed of aloes.

DIALTHE A. (From δια, and αλθαια, the mallow.)
An ointment composed chiefly of marsh-mallows.
DIALLYSIS. (From διαλυω, to dissolve.) A solu-

DIA LYSIS. (From dadvo, to dissolve.) A solu-tion of continuity, or a destruction of parts. DIA LYSIS. The plural of dialysis. The name of an order in the class Locates of Cullen's Nosology. DIALY TICA. (From dadvo, to dissolve.) Medi-cines which heal wounds and fractures. DIAMAGARITON. (From da, and papyopt) 55, pearl?) An antidote in which pearls are the chief in-

gredient gredient.

DIAMASSE'MA. (From δια, and μεσσομαι, techew.) A masticatory, or substance put into the mouth, and chewed to excite a discharge of the saliva. Dia'MBRA. (From dia, and au6pa, amber.) An Bigot and Arago supposed that it might contain hydro-aromatic composition in which was ambergris.

Diame Lon. (From δια, and μηλον, a quince.)

composition of quinces.

DIAMOND. The diamond, which was well known. to the ancients, is principally found in the western to the afficients is principally found in the vessel peninsula of India, on the coast of Coromandel, in the kingdoms of Golconda and Visapour, in the island of Borneo, and in the Brazils. It is the most valued of all minerals.

Diamonds are generally found bedded in vellow ochre or in rocks of freestone, or quartz, and sometimes in the beds of running waters. When taken out of the earth, they are incrusted with an exterior earthly covering, under which is another, consisting of carbo nate of lime.

In the Brazils, it is supposed that diamonds might be obtained in greater quantities than at present, if the sufficient working of the diamond-mines was not pro-hibited, in order to prevent that diminution of their commercial value, which a greater abundance of them might occasion

Brazilian diamonds are, in commercial estimation,

inferior to the oriental ones

In the rough, diamonds are worth two pounds ster-In the rough, diamonns are worm two pounts seening the carat, or four grains, provided they are without blemish. The expense of cutting and polishing amounts to about four pounds more. The value however is far above what is now stated when they become considerable in size. The greatest sum that has been given for a single diamond is one hundred and fifty thousand pounds.

The usual method of calculating the value of dia-The usual method of calculating the value of mannons is by squaring the number of carats, and then multiplying the amount by the price of a single carat: thus supposing one carat to be 2L, a diamond of 3 carats is worth 128L being  $4 \times 8 \times 2$ .

The famous Pijot diamond weighs 1881-8th grains.

The famous Pigot diamond weighs 188 1-8th grains. Physical Propertus of Themsond.

Diamond is always crystallized, but sometimes so imperfectly, that, at first sight, it might appear amorphous. The figure of diamond, when periett, is an eight-sided prism. There are also cubical, flat, and round diamonds. It is the oriental diamond which crystallizes into octohedra, and exhibits all the varieties of this primitive figure. The diamond of Brazil crystallizes into dodecahedra.

The texture of the diamond is lamellated, for it may be split or cleft with an instrument of well-tempered steel, by a swift blow in a particular direction. There are however some diamonds which do not appear to be formed of lamina, but of twisted and interwoven fibres, like those of knots in wood. These exceed the others greatly in hardness, they cannot be cut or polished, and are therefore called by the lapidarjes diamonds of nature.

monds of nature.

The diamond is one of the hardest bodies known. It resists the most highly-tempered steel file, which circumstance renders it necessary to attack it with diamond powder. It takes an exquisite and lasting polish. It has a great refractive power, and hence its lustre, when cut into the form of a regular solid, is uncommonly great. The usual colour of diamonds is a light gray, often inclining to yellow, at times lemon colour, violet, or black, seldomer rose-red, and still more rarely green or blue, but more frequently pale brown. The purest diamonds are perfectly transparent. The colour-less diamond has a specific gravity which is in proportion to that of water as 3.512 to 1.000, according to Brisson. This varies however considerably. When rubbed it becomes positively decletric, even before it has The diamond is one of the hardest bodies known tion to that of water as 3.32 to 1.000, according to Brisson. This varies however considerably. When rubbed it becomes positively electric, even before it has been cut by the lapidary.

Diamond is not acted upon by acids, or by any chemical agent, oxygen excepted; and this requires a very great increase of temperature to produce any

effect.

The diamond burns by a strong heat, with a sensible flame, like other combustible bodies, attracting oxygen, and becoming wholly converted into carbonic acid gas during that process.

It combines with iron by fusion, and converts it, like common charcoal, into steel; but diamond requires a much higher temperature for its combustion than company the process of the proces mon charcoal does, and even then it consumes but slowly, and ceases to burn the instant its temperature is lowered.
"From the high refractive power of the diamond,

bagot and Arago supposed that it might contain hydro-gen. Sir H. Davy, from the action of potassium on it, and its non-conduction of electricity, suggested in his third Bakerian lecture, that a minute portion of oxy-gen might exist in it; and in his new experiments on the fluoric compounds, he threw out the idea, that it might be the carbonaceous principle, combined with some new, light, and subtle element of the oxygenous and chlorine class

and chlorine class.

This unrivalled chemist, during his residence at Plorence in March 1814, made several experiments on the combustion of the diamond and of plumbago, by means of the great lens in the cabinet of natural history; the same instrument as that employed in the first trials on the action of the solar heat on the diamond, instituted in 1694 by Cosmo III. Grand Duke of Tue-He subsequently made a series of researches the combustion of different kinds of charcoal at Rome. His mode of investigation was peculiarly ele-

gant, and led to the most decisive results.

gain, and not to the most decisive resunts. He found that diamond, when strongly ignited by the lens, in a thin capsule of platinum, perforated with many orifices, so as to admit a free circulation of air, continued to burn with a steady brilliant red light, visible in the brightest sunshine, after it was withdrawn from the focus. Some time after the diamonds were removed out of the focus, indeed, a wire of plawere removed out of the focus, indeed, a wire or pratina that attached them to the tray was fused, though their weight was only 1.84 grains. His apparatus consisted of clear glass globes of the capacity of from 14 to 40 cubic inches, having single apertures to which stop-cocks were attached. A small hollow cylinder of platinum was attached to one end of the stop-cock. and was mounted with the little perforated capsule for containing the diamond. When the experiment was to be made, the globe containing the capsule and the substance to be burned was exhausted by an excellent air-pump, and pure oxygen, from chlorate of potassa, was then introduced. The change of volume in the arr-pump, and pure oxygen, from contact of potassa, was then introduced. The change of volume in the gas after combustion was estimated by means of a fine tube connected with a stop-cock, adapted by a proper screw to the stop-cock of the globe, and the absorption was judged of by the quantity of mercury that entered the tube which afforded a measure so exact, that no alteration however minute could be overlooked. He had previously satisfied himself that a quantity of moisture, less than 1-100th of a grain, is rendered evident by deposition on a polished surface of glass; for a piece of paper weighing one grain was introduced into a tube of about four cubic inches' capacity, whose exterior was slightly heated by a candle. A dew was immediately perceptible on the inside of the glass, though the paper, when weighed in a balance turning with 1-100th of a grain, indicated no appreciable diminution.

The diamonds were also heated to redness before they were introduced into the capsule. During their combustion, the gloss globe was kept cool by the appli-cation of water to that part of it immediately above the capsule, and where the heat was greatest. From the results of his different experiments, con-

From the results of his different experiments, conducted with the most unexceptionable precision, it is demonstrated, that diamond affords no other substance by its combustion than pure carbonic acid gas; and that the process is merely a solution of diamond in oxygen, without any change in the volume of the gas. It likewise appears, that in the combustion of the different kinds of charcoal, water is produced; and that from the diminution of the volume of the oxygen, there is every reason to believe that the water is formed by the combustion of hydrogen existing in strongly ignited charcoal. As the charcoal from oil of turpentine left no residuum, no other cause but the strongly ignited charcoan. As the charcoal from oil of turpentine left no residuum, no other cause but the presence of hydrogen can be assigned for the diminution occasioned in the volume of the gas during its

combustion.

The only chemical difference perceptible between diamond and the purest charcoal is, that the last con diamond and the purest charcoal is, that the last contains a minute portion of hydrogen; but can a quantity of an element, less in some cases than 1-50,000th part of the weight of the substance, occasion so great a difference in physical and chemical characters? The opinions of Tennant, that the difference depends on crystallization, seems to be correct. Transparent solid bodies are in general non-conductors of electricity; and it is probable that the same corpusoular corpusouslar invariancements which invariancements. arrangements which give to matter the power of transmitting and polarizing light, are likewise connected with its relations to electricity. Thus water, the hydrates of the alkalies, and a number of other bodies which are conductors of electricity when fluid, become non-conductors in their crystallized form.

That charcoal is more inflammable than the diamond, may be explained from the looseness of its texture, and from the hydrogen it contains. But the diamond appears to burn in oxygen with as much facility as plumbago, so that at least one distinction supposed to exist between the diamond and common supposed to exist netween the mannon and common carbonaceous substances is done away by these re-searches. The power possessed by certain carbon-aceous substances of absorbing gases, and separating colouring matters from fluids, is probably mechanical and dependent on their porous organic structure; for it belongs in the highest degree to vegetable and animal charcoal, and it does not exist in plumbago, coke, or anthracite

The nature of the chemical difference between the diamond and other carbonaceous substances, may be demonstrated by igniting them in chlorine, when mudemonstrated by igniting them in chlorine, when mu-riatic acid is produced from the latter, but not from the former. The visible acid vapour is owing to the moist-ure present in the chlorine uniting to the dry muriating gas. But charcoal, after being intensely ignited in chlorine, is not altered in its conducting power of colour. This circumstance is in favour of the opinion, that the This circumstance is in layour of the opinion, that the minute quantity of hydrogen is not the cause of the great difference between the physical properties of the diamond and charcoal. See Carbon.

Diamon's shaped. See Leaf.

Diamo'ron. (From έτα, and μωρον, a mulberry.) A

Diamo'ron. (From &a preparation of mulberries.

DIAMOSCHUM. (From  $\delta ia$ , and  $\mu o \sigma \chi o s$ , musk.) An antidote in which musk is a chief ingredient. DIAMOTO'SIS. (From  $\delta ia$ , and  $\mu \sigma f o s$ , lint.) The introduction of lint into an ulcer or wound. DIA'NA. 1. The moon.

The chemical name for silver from its white shining appearance.

DIANANCA SMUS. (From dia, and avayração, to force.) 1. The forcible restoration of a luxated part

into its proper place.

2. An instrument to reduce a distorted spine.

DIA'NDRIA. (From \(\delta\_5\) twice, and \(\alpha mp\), a man.)

The name of a class in the sexual system, consisting of hermaphrodite plants which have flowers with two

DIA'NTHUS. (From Δις, διος, Jove, and ανθος, a flower: so called from the elegance and fragrance of its flower.) The name of a genus of plants in the Linnæan system. Class, Decandria; Order, Di-

DIANTHUS CARYOPHYLLUS. The systematic name DIANTHUS CARVOFHYLLUS. The systematic Anime of the clove-pink. Caryophyllum rubrum; Anime Vetamica; Hetanica; Ceronaria; Caryophyllus hortensis. Clove gilliflower. Clove July flower. This fragrant phant, Dianthus—floribus solitaris, squamis calycinus subovatis, brevissimus, corollis erenatis, of Linuwus, grows wild in several parts of England; but Anneaus, grows with in several parts of England; but the flowers, which are pharmaceutically employed, are usually produced in gardens: they have a pleasant aromatic smell, somewhat allied to that of clovespice; their taste is bitterish and sub-adstringent. These flowers were formerly in extensive use, but are now merely employed in form of syrup, as a useful and pleasant vehicle for other medicines.

Diapa's Mat. (From baraaran, to swrinkle.) A me-

DIAPA'SMA. (From διαπασσω, to sprinkle.) A medicine reduced to powder and sprinkled over the body,

DIAPEDE'SIS. (From διαπηδάω, to leap through.)
The transudation or escape of blood through the coats of an artery.

DIAPE'GNA. (From διαπηγνυω, to close together.) surgical instrument for closing together broken

DIAPE'NTE. (From δια, and πεντε, five.) A medi-

cine composed of five ingredients.
DIAPHANOUS. (Diaphanosus; from dia, through, and φαινω, to shine.) A term applied to any substance which is transparent; as the hydioid membrane hyaioid membrane which is transparent; as the hydroid membrane covering the vitreous humour of the eye, which is as transparent as glass.

DIAPHC'NICUM. From From δια, and φοινιξ, a date.)

DIA PHORA. (From διαφερω, to distinguish.) The

distinction of diseases by their characteristic marks

DIAPHORE'SIS (From διαφορεω, to carry through.)

Perspiration.

DIAPHORETIC. (Diaphoreticus; from διαφορεω; to carry through.) That which, from being taken internally, increases the discharge by the skin. When this is carried so far as to be condensed on the surface it forms sweat; and the medicine producing it is named sudorific. Between diaphoretic and sudorific, there is no distinction; the operation is in both cases the same, and differs only in degree from augmentation of dose, or employment of assistant means. This class of me-dicines comprehends five orders.

dictines comprehends two orders.

1. Pungent diaphareties, as the rotatile salts, and essential oils, which are well adapted for the aged; those in whose system there is little sensibility; those who are difficultly affected by other diaphareties; and those whose stomachs will not hear large doses of me-

2. Calefacient diaphoretics, such as serpentaria con-tragerva, and guaracam: these are given in cases where the circulation is low and languid.

3. Stimulant diaphoretics, as antimonial and mercu-rial preparations, which are best litted for the vigorous

and plethoric.

4. Antispasmodic diaphoretics, as opium, musk, and camphire, which are given to produce a diaphoresis, when the momentum of the blood is increased.

5. Diluent deaphoreties, as water, whey, &c. which are best calculated for that habit in which a predisposition to sweating is wanted, and in which no diaphoresis takes place, although there be evident causes to

produce it.

DIAPHRA'GMA. (Diaphragma, matis. n.; from δια, and φρατ'ρο, to divide.) Septum transversum. The midrit, or diaphragm. A music that divides the thorax from the abdomen. His composed of two muscles; the first and superior of these arises from the sternum, and the ends of the last ribs on each side. Its figure, from this semicircular origination, tend tewards their course and terminate in a torque or converse. their centre, and terminate in a tendon, or aponeurosis, which is termed the centrum tendinosum. The se-cond and inferior muscle comes from the vertebræ of the loips by two productions, of which that on the right side comes from the first, second, and third ver-tebræ of the loins; that on the left side is somewhat shorter, and both these portions join and make the lower part of the diaphragm, which joins its tendons with the tendon of the other, so that they make but one with the tendon of the other, so that they make but one muscular partition. It is covered by the pleura on its upper side, and by the peritonæum on the lower side. It is pierced in the middle for the passage of the vena cava; in its lower part for the essophagus, and the nerves, which go to the upper oritice of the stomach, and between the productions of the inferior muscle, passes the aorta, the thoracic duct, and the vena azygos. It receives arteries and veins called phrenic or disphramatic from the cave and carta; and some diaphragmatic, from the cava and aorta: and some times on its lower part two branches from the vena adiposa, and two arteries from the lumbares. It has two nerves which come from the third vertebra of the neck, which pass through the cavity of the thorax, and are lost in its substance. In its natural situation, the diaphragm is convex on the upper side towards the breast, and concave on its lower side towards the belly; therefore, when its fibres swell and contract, it pust become plain on each side, and consequently the cavity become plain on each suce, and consequently allowed to the breast is enlarged to give liberty to be lungs to receive air in inspiration; and the stomach and intestines are pressed for the distribution of their contents; thence the use of this muscle is vor considerable; it is hence the use of this muscle is voy? considerable; it is the principal agent in respiration, particularly in inspiration; for when it is peaction the cavity of the thorax is emlarged, particularly at the sides, where the lungs are chiefly situated; and as the lungs muscle always be continuous to the inside of the thorax and upper side of the diaphragm, the air rushes into them, in order to fill or the increased space. In expiration it is relaxed and pushed up by the pressure of the abdominal muscles upon the viscera of the abdominal muscles upon the viscera of the abdomen; and at the some time that they press it upwards, they pull down the ribs, by which the cavity of the thorax is diministed, and the air suddenly pushed out of the hungs. DIAPHRAGMATI TIS. (From headpoor, p.a., the diaphragm) Inflammation of the diaphragm. See Paraphrenits.

raphrenitis.

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(From διαφθείοω to corrupt.) Dia PHTHORA.

nabortion where the fetus is corrupted in the womb.

Diaphyla Ctica. (From diaphylacou, to preserve.)

Medicines which resist putrefaction or prevent infec-

Dia'rhysis. (From διαφυω, to divide.) An interstice or partition between the joints.

Diaphsselæ'um. (From δια, and πισσελαιον, the oil of pitch, or liquid pitch.) A composition in which is liquid pitch.

Dia Plasis. (From διαπλασσω, to put together.)
The replacing a luxated or fractured bone in its proper situation.

Diapla'sMa. (From διαπλασσω, to anoint.) An unction or fomentation applied to the whole body or

any part.

DIA'PNB (From διαπνεω, to blow through, or pass gently as the breath does.) An insensible discharge of the urine

DIA PNOE. (From διαπνεω, to breathe through.) The transpiration of vapour through the pores of the

DIAPNO'ICA. (From διαπνεω, to transpire.) phoretics or medicines which promote perspiration

DIAPORE'MA. (From διαπορεω, to be in doubt.) Nervous anxiety

DIAPORON. (From  $\delta_{i\alpha}$ , and  $\sigma\pi\omega\rho\alpha$ , autumnal fruits.) A composition in which are several autumnal fruits,

as quinces, mediars, and services.

DIAPRA'SSIUM. (From δια, and πρασσιον, hoarhound.)

A composition in which hoarhound is the principal

DIAPRU'NUM. (From δια, and προυνη, a prune.) An electuary of prunes.

DIAPSO'RICUM. (From δια, and ψωρα, the itch or

DIAPSO RICHM. (From ota, and ψωρα, the itch or scurvy.) A medicine for the itch or scurvy.

DIAPTE'RNES. (From ota, and π/ερνα, the heel.)

A composition of cow heel and cheese.

DIAPTERO'SIS. (From  $\delta \iota a$ , and  $\pi / \epsilon \rho o \nu$ , a feather.) The cleaning the ears with a feather.

DIAPPE'MA. (From δια, and πυον, pus.) A suppuration or abscess. (From διαπυημα, a suppuration.) DIAPYE'MATA.

Suppurating medicines. (From διαπυημα, a suppuration.)

DIAPPE'TICA. Suppurating applications

Diarho'cha. (From δια, and ρηχος, a space.) The space between the foldings of a bandage.

DIA'RIUS. (From dies, a day.) A term applied to

Fevers which last but one day.

Diaroma'Ticum. (From δια, and αρομαζικου, an aromatic.) A composition of spices.

DIA'RRHAGE. (From διαρρηγνυμι, to break asun-

A fracture.

der.) A fracture.

Diarrhopo Medi. (From δια, ροδον, a rose, and μελι, honey.) Scammony, agaric, pepper, and honey.

Diarrhopo M. (From δια, and ροδον, a rose.) A composition of roses.

DIARRHŒ'A. (From διαρρεω, to flow through.) A purging. It is distinguished by frequent stools with the natural excrement, not contagious, and seldom attended with pyrexia. It is a genus of disease in the class Neuroses, and order Spasmi of Cullen, containing the following species: ing the following species:

1. Diarrhaa crapulosa. The feculent diarrhaa, from crapulus, one who overloads his stomach.
2. Diarrhaa biliosa. The bilious, from an increased

secretion of bile.

3. Diarrhaa mucosa. The mucous, from a quantity of slime being voided.
4. Diarrhaa hepatirrhaa. The hepatic, in which there is a quantity of serous matter, somewhat resembling the washings of flesh, voided; the liver being primarily affected.

5. Diarrhæa lienterica. The lientery; when the

food passes unchanged.

6. Diarrhaa caliaca. The coliac passion: the food passes off in this affection in a white liquid state

7. Diarrhad verminosa. Arising from worms.

Diarrhae seems evidently to depend on an increase the peristatic motion, or of the secretion s the intestines; and besides the causes already noticed, it may arise from many others, influencing the system generally, or the particular seat of the disease. Of the former kind are cold, checking perspiration, certain passions of the mind, and other disorders; as denugled.

An tition, gout, fever, &c. To the latter belong varience acrid ingests, drastic cathartics, spontaneous acidity, e.e. In this complaint each discharge is usually pre-To the latter belong various Sec. In this complaint each discharge is usually pre-ceded by a murmuring noise, with a sense of weight and uncasiness in the hypogastrium. When it is pro-tracted, the stomach usually becomes affected with sickness, or sometimes vomiting, the countenance grows pale or sallow, and the skin generally dry and rigid. Ultimately great debility and emaciation, with dropsy of the lower extremities, often supervene. Dis-sections of distribute, where it is founded that he had to see the second of the second sections of diarrhoa, where it terminated fatally, have shown ulcerations of the internal surface of the intestines, sometimes to a considerable extent, especially about the follicular glands; in which occasionally a cancerous character has been observable. The treatment of this complaint must vary greatly according to circumstances: sometimes we can only hope to palliate, as when it occurs in the advanced period of phthiate, as when it occurs in the advances period of photosis pulmonalis; sometimes it is rather to be encouraged, relieving more serious symptoms, as a bilious diarrhea coming on in fever, though still some limits must be put to the discharge. Where, however, we are warranted in using the most speedy means of stopping it, the objects are, 1. To obviate the several causes. 2. To lessen the inordinate action, and give tone to the intestine.

causes. 2. To lessen the inordinate action, and give tone to the intestine.

I. Emetics may sometimes be useful, clearing out the stomach, and liver, as well as determining to the skin. Cathartics also, expelling worms, or indurated faces; but any aerimony in the intestine would probably cause its own discharge, and where there is much irritability, they might aggravate the disease; however, in protracted cases, the alvine contents speedily become vitiated, and renew the irritation; which may be best obviated by an occasional mild aperient, particularly rhubarb. If, however, the liver do not perform its office, the intestine will hardly recover its healthy condition: and that may most probably be effected by the cautious use of mercury. Likewise articles which determine the fluids to other outlets, diureties, and particularly diaphoretics, in many cases contribute materially to recovery; the latter perhaps assisted by bathing, warm clothing, gentle exercise, &c. Diluent, demulcent, antacid, and other chemical remedies, may be employed to correct aerimony, according to its particular nature. In children teething, the gums should be lanced; and if the bowels have been attacked on the repulsion of some other disease it may often he ropper to endeavour to restore. teething, the gums should be lanced; and if the bowels have been attacked on the repulsion of some other disease, it may often be proper to endeavour to restore this. But a matter of the greatest importance is the due regulation of the diet, carefully avoiding those articles, which are likely to disagree, or irritate the bowels of the contraction of the diet. els, and preferring such as have a mild astringen; effect. Fish, milk, and vegetables, little acescent, as rice, bread, &c. are best; and for the drink, madeira or brandy, sufficiently diluted, rather than malt liquors.

II. Some of the means already noticed will help to fulfil the second indication also, as a wholesome diet, exercise, diaphoretics, &c.: but there are others of exercise, diaphoretics, &c.: but there are others of more power, which must be resorted to in urgent cases. At the head of these is opium, a full dose of which frequently at once effects a cure; but where there is some more fixed cause, and the compleint of any standing, moderate quantities repeated at proper intervals will answer better, and other subsidiary means ought not to be neglected; aromatics may prevent its disordering the stomach, rhubarb obviate its causing permanent constipation, &c. Tonics are generally proper, the discharge itself inducing debility, and where there is a deficiency of bile particularly, the lighter forms of the aromatic bitters, as the influsum calumbe, &c. will materially assist; and mild challybeates are &c. will materially assist; and mild chalybeates are sometimes serviceable. In protracted cases astringents sometimes serviceable. In protracted cases as ingene-come in aid of the general plan, and where opium dis-agrees, they may be more necessary: but the milder ones should be employed at first, the more powerful ones should be employed at arist, me more powerful only where the patient appears sinking. Chalk and lime-water answer best where there is acidity; otherwise the pomegranate rind, logwood extract, catechu, kino, tormentil, &c. may be given: where these fail, alum, sulphate of zinc, galls, or superacetate of lead. DIARTHRO'SIS. (From diaphono, to articulate.) A moveable connexion of bones. This genus has five anotice vire aparthrosis, arthrodia, singlymus troched.

species, viz. enarthrosis, arthrodia, ginglymus, trochoides, and amphiarthrosis

DIASAPO'NIUM. (From dea, and carwy, soap.) An

Diabaty'Rium. (From δια, and σαζυριον, the orchis.) An ointment of the orchis-root.

Diabat'llium. (From δια, and σκιλλα, the squill.)

Oxymel and vinegar of squills.

Diasci Na. (From δια, and σκιγκος, the crocodile.) A name for the mithridate, in the composition of which there was a part of the crocodile.

Diasco notus. (From δια, and σκορδιον, the water germander.) Electuary of socidium.

Diasc Na. (From δια, and σκορδιον, the water sermander.) Electuary of socidium.

which is senna. DIASMY'RNUM. (From δια, and σμυρνη, myrrh.)
Diasmyrnes. A wash for the eyes, composed of

myrrh Draso'strous. (From διασωζω, to preserve.) That which preserves health.

Which preserves nearm. (From δια, and σπερμα, seed.) Diaspe καλτυμ. (From δια, and σπερμα, seed.) Dia'sphade. (From διασφάζω, to separate.) Diasphazis. The interstice between two veins.

DIASPHAGE.

The interstice between two veins.

Diasph?'xis. (From δια, and σφυζω, to strike.)

The pulsation of an artery.

[Diaspore, of Hady, Brogniart, Cleaveland, &c.

This mineral is but little known. It is composed of lamina, somewhat curved, easily separable from each other, and possessing a pearly gray colour, with considerable lustre. These lamine according to the natural joints, which they present, when examined by a light, seem to have separated in the direction of the smaller diagonals of the bases of a rhomboidal prism. The edges or angles of its fragments are capable of scratching glass. Its specific gravity is 3.43.

A small fragment, placed in the flame of a candle "A small fragment, placed in the flame of a candle, almost instantly decrepitates, and is dispersed in numerous little spangles. Hence its name from the Greek Διαθπείρω. It is composed of alumine 80, water 17, iron 3. Nothing is known of its geological situation. Its gangue, is a rock, both argillaceous and ferruginous, "—Cleav. Min. A.]

DIA'STASIS. (From διιστημι, to separate.) Diastema. A separation. A separation of the ends of the bones; as that which occasionally happens to the bones of the cranium, in some cases of hydrocephalus.

DIASTE ATON. (From δια and εχαι fat.) An oint-

Diastr'Aron. (From δια, and ςεαρ, fat.) An ointment of the fat of animals.

DIASTE MA. See Diastasis.
DIASTOLE. (From δια, and στελλω, to stretch.)
The dilatation of the heart and arteries. See Circu-Antion.

(From διαςομοω, to dilate.) Any DIASTOMO'SIR.

Diastromo sis. (From διαζομού, to unate.) Any dilatation, or dilating instrument.

Diastre mala. (From διαζομόω, to turn aside.)

Diastrophe. A distortion of any limb or part.

Diastrophe. A distortion of any time of part.
Dia'strophe. See Diastromma.
Dia'tasis. (From διατείνω, to distend.) The exzension of a fractured limb, in order to reduce it.
Diatroli'thum. (From διά, and 7ηκολιθος, the
Jew's stone.) An antidote containing lapis judaicus.
DIATERE'SIS. (From διά, and 7ερεω, to perforate.) A perforation or aperture.
Diatrophytica. (From διά, and 7ερεω, to preserve)

rate.) A perforation or aperture.

Diater's Tica. (From δ<sub>iα</sub> and 7<sub>ερεω</sub>, to preserve.)

Medicines which preserve health and prevent disease.

Diate's sakos. (From δ<sub>iα</sub>, and τεσαρες, four.) A medicine compounded of four simple ingredients.

Diate's Tigum. (From δ<sub>iα</sub>, and τετ/1γων, a grasshopper.) A medicine in the composition of which were grasshoppers, given as an antidote to some nephritic complaints, by Æginetus.

DIA'THESIS. (From δ<sub>iα</sub>πιθημι, to dispose.) Any particular state of the body: thus, in inflammatory fever, there is an inflammatory diathesis, and, during putrid fever, a putrid diathesis.

Diates'smus. (From δ<sub>iα</sub>εω<sub>ω</sub> to run through.) A

patria never, a patria distress.

Diatrik'smus. (From διαδεω, to run through.) A rupture through which some fluid escapes.

Diatriadaca'nthum. From δια, and τραγακανθα, tragacanth.) A medicine composed of gum-traga-

canth.

Dia Trium. (From δια, and γρεις, three.) A medicine composed of three simple ingredients.

Dia XYLA LOES. (From δια, and ξυλαλοη, the lignum aloes.) A medicine in which is lignum aloes.

Diazo'ma. (From διαζωννημι, to surround; because it surrounds the cavity of the thorax.) The dia-

phragm. Diazo'stra. (From διαζωννυμί, to surround; because, when the body is girded, the belt usually lies upon it.) A name of the twelfth vertebra of the back.

DICENTE'TUM. (From εία, and κεν7εω, to stimu-late.) A pungent or stimulating wash for the eyes. DICHASTE'RES. (From είχανω, to divide, because they divide the food.) A name of the foreteeth. DICHOPHY'IA. (From είχα, double, and φυω, to grow.) A distemper of the hairs, in which they split and grow forked.

and grow forked.

DICHOTOMUS. (From big, twice, and repus, to
cut; that is, cut into two.) Dichotomous or bifurcated. Applied to stems, styles, &c. which are forked or divided into two.

DICHROITE. A species of iolite.

DICOTYLEDONES. Two cotyledons. See Co-

tyledon:
DICROTIC. (Dicroticus; from δις, twice, and κρουω, to strike.) A term given to a pulse in which the artery rebounds after striking, so as to convey the sensation of a double pulsation.
DICTANNITES. (From δικ λαμνος, dittany.) A wine

DICTAMNI'TES. (From Olic Japung, unually, medicated with dittany.
DICTA'MNUS. (From Dictamnus, a city in Crete, on whose mountains it grows.) The name of a genus of plants in the Linnean system. Class, Decandria; Order, Monogynia. Dittany.

THERMANUS ALBUS. White fraxinella, or bastard

candria; Order, monoguna. Dinany.

Dictamnus albus. White fraxinella, or bastard dittany. Frazinella. Dictamnus albus-foliis pinnatis, caule simplici, of Linneus. The root of this plant is the part differted for medicinal use; when fresh, it has a moderately strong, not disagreeable smell. Formerly it was much used as a stomachic, and was supposed to be a tonic, and alexipharmic, and was supposed to be a medicine of much efficacy in removing uterine obstructions, and destroying worms; but its medicinal powers became so little regarded by modern physicians, that it had fallen almost entirely into disuse, till Baron Stoerck brought it into notice, by publishing several cases of its success, viz. in tertian intermittents, worms, (lumbrici) and menstrual suppressions. In worms, (lumbrici) and menstrual suppressions. In all these cases, he employed the powdered root to the extent of a scruple twice a day. He also made use of a tincture, prepared of two ources of the fresh root digested in 14 ounces of spirit of wine; of this 20 to 50 drops, two or three times a day, were successfully employed in epilepsies, and, when joined with steel, this root, we are told, was of great service to chlorotic patients. The dictamnus undoubtedly, says Dr. Woodwille is a medicine of considerable power; but not tients. The dictamins undoubtedly, says Dr. Wood-ville, is a medicine of considerable power; but not-withstanding the account of it given by Stoerck, who seems to have paid little attention to its modus ope-randi, we may still say with Haller, "nondum autem wires pro dignitate exploratus est," and it is now fallen into disuse.

DICTAMNUS CRETICUS. See Origanum dictamnus. DIDYMÆ'A. (From διδυμος, double.) A cataplasm; so called by Galen, from the double use to which he

DI'DYMI. (From διδυμος, double.) Twins. An old name of the testicles, and two eminences of the brain, from their double protuberance.

brain, from their double protuberance.

DIDYNAMIA. (From δις, twice, and δυναμις, power, two powers.) The name of a class in the sexual system of plants, consisting of those with hermaphrodite flowers, which have four stamina, two of which are long, and two short.

DISCOS/LUM. (From δια, and εκδαλλω, to cast out.) A medicine causing an abortion.

DIELE CTRON. (From δια, and ελεκ/ρον, amber.) A name of a troche, in which amber is an ingredient.

DIEM ERBRO ECK, ISERAND, was born near Utesche in, 1600. After graduating at Angers, be went

DIEMERBROECK, ISERAND, was born near Utrecht, in 1609. After graduating at Angers, he went to Nimeguen in 1636, and for some years continued freely attending those who were ill of the plague, which raged with great violence, and of which he subsequently published an account. This obtained him much credit: and, in 1642, he was made professor extraordinary in medicine at Utrecht; when he gave lectures on that subject, as well as on anatomy, which recedered him, very popular. He received also other lectures on that subject, as well as on anatomy, which rendered him very popular. He received also other distinctions at that university, and continued in high esteem till his death, in 1674. He was author, besides, of a system of anatomy, and several other works in medicine and surgery; part of which were published after his death by his son, especially his treatise on

the measles and smallpox.

DIERVI'LLA. (Named in honour of Mr. Dierville, who first brought it from Arcadia.) See Lonicera

diervilla.

DIET. Diata. The dietetic part of medicine is no inconsiderable branch, and seems to require a much greater share of regard than it commonly meets much greater share of regard than it commonly meets with. A great variety of diseases might be removed by the observance of a proper diet and regimen, without the assistance of medicine, were it not for the impatience of the sufferers. However, it may on all occasions come in as a proper assistant to the cure, which sometimes cannot be performed without a due observance of the non-naturals. That food is, in general, thought the best and most conducive to long life, which is most simple, pure, and free from frititing neral, mought the best and most conductive to long life, which is most simple, pure, and free from fritating qualities, and such as approaches nearest to the nature of our own bodies in a healthy state, or is capable of being easiest converted into their substance by the via vite, after it has been duly prepared by the art of cookery; but the nature, composition, virtues, and uses of particular aliments, can never be learnt to satisfaction, without the assistance of martical chemistry. tion, without the assistance of practical chemistry

DIET DRINK. An alterative decoction employed daily in considerable quantities, at least from a pint to a quart. The decoction of sarsaparilla and mezercon, the Lisbon diet drink, is the most common and most

Dieteticus. That part of medicine which considers the way of living with relation to food, or diet, suitable to any particular case

Die xopos. (From  $\delta_{(a)}$ , and  $\epsilon \xi_0 \delta_{05}$ , a way to pass at.) *Diodos*. In Hippocrates it means evacuation out.) Diodos.

DIFFLA'TIO. (From difflo, to blow away.) Per-

DIFFUSUS. Diffused; spreading. Applied to pa-nicles and stems. Punicula diffusu, that is, lax and spreading; as in Saxifraga umbrasa; the London pride, so common in our gardens; and many grasses, especially the common cultivated out. The Bunias

especially the common cultivated out. The Bunics kakile, or sea rocket, has the caults diffusus.

BIGA/STRICUS. (From e.g., twice, and yaorno, a belly so called from its having two bellies.) Binenter maxille of Albinus. Mustoido-hypenin of Dumas. A muscle situated externally between the lower jaw and os hyoides. It arises, by a fleshy belly, from the upper part of the processus mastoideus, and descending, it contracts into a round tendon, which passes through the stylohyoideus, and an annular ligament which is fastened to the os hyoides: then it grows fleshy again, and ascends towards the middle of the edge of the lower jaw, where it is inserted. Its use is edge of the lower jaw, where it is inserted. Its use is to open the mouth by pulling the lower jaw down-wards and backwards; and when the jaws are shut, to raise the larynx, and consequently the pharynx, upwards, as in deglutition.

Diegranta (From digero, to digest.) Medicines which promote the secretion of proper pus in wounds and ulcers.

DIGESTER. A strong and tight iron kettle or cop-per, furnished with a valve of safety, in which bodies may be subjected to the vapour of water, alkohol, or ather, at a pressure above that of the atmosphere.

DIGESTION. (Digestio; from digero, to dis-

solve.)

1. An operation in chemistry and pharmacy, in which such matters as are intended to act slowly on each other, are exposed to a heat, continued for some

2. In physiology, the change that the food undergoes in the stomach, by which it is converted into

chyme.
"The immediate object of digestion is the formation of chyle, a matter destined for the reparation of the continual waste of the animal economy. The digestive organs contribute also in many other ways to

If we judge of the importance of a function by the number and variety of its organs, digestion ought to be placed in the first rank; no other function of the animal economy presents such a complicated appa-

There always exists an evident relation between the There always exists an evident relation between the sort of aliment proper for an animal and the disposition of its digestive organs. If, by their nature, the aliments are very different from the elements which compose the animal: if, for example, it is graminivorous, the dimensions of the apparatus will be more complicated, and more considerable; if, on the contrary, the animal feeds on flesh, the digestive organs 298

will be fewer and more simple, as is seen in the carni-vorous animals. Man, called to use equally animal and vegetable aliments, keeps a mean between the graminivorous and carnivorous animals, as to the disposition and complication of his digestive apparatus, without deserving, on that account, to be called omni-

We may represent the digestive apparatus as a long canal differently twisted upon itself, wide in certain points, narrow in others, susceptible of contracting or points, native in dates, assessment of the control of the centerging its dimensions, and into which a great quantity of fluids are poured by means of different ducts. The canal is divided into many parts by anatomists;

The pharynx

The esophagus.

The stomach.
The small intestines.

The great intestines.

The anus

Two membranous layers form the sides of the diges tive canal in its whole length. The unner layer, which is intended to be in contact with the aliments, consists a mucous membrane, the appearance and structure of a microus incident and the appearance and successful of which vary in every one of the portions of the canal, so that it is not the same in the pharynx as in the mouth, nor is it in the stomach like what it is in the esophagus, &cc. In the lips and the anus this membrane becomes confounded with the skin. The second layer of the sides of the digestive canal is muscular; it is composed of two layers of fibres, one longitudinal, it is composed of two layers of fibres, one longitudinal, the other circular. The arrangement, the thickness, the nature of the fibres which enter into the composition of these strata are different, according as they are observed in the mouth, in the esophagus, or in the large intestine, &c. A great number of blood-vessels go to, or come from the digestive canal; but the abdominal portion of this canal receives a quantity incomparably greater than the superior parts. This presents only what are necessary for its nutrition, and the inconsiderable secretion, of which it is the seat; while the number and the volume of the vessels that belong to the abdominal portion show that it must be the to the abdominal portion show that it must be the agent of a considerable secretion. The chyliferous vessels arise exclusively from the small intestine

vessels arise exclusively from the small intestine.

As to the nerves, they are distributed to the digestive canal in an order inverse to that of the vessels; that is, the cephalic parts, ecroical and pectoral, receive a great deal more than the abdominal portion, the stomach excepted, where the two nerves of the eighth pair terminate. The other parts of the canal scarcely receive any branch of the cerebral herves. The only nerves that are observed, proceed from the subdiaphragmatic ganglions of the great sympathetic. We will see, farther on, the relation that exists between the mode of distribution of the nerves, and the functions of the superior and inferior portions of the digestive canal.

The bodies that pour fluids into the digestive canal,

are,
1. The digestive mucous membrane,

The digestive inucous membrane.
 Isolated folitoles that are spread in great numbers in the whole length of this membrane.
 The agglomerated follicles which are found at the istimus of the throat, between the pillars of the velum of the palate, and sometimes at the junction of the cosophagus and the stomach.
 The mucous glands which exist in a greater or less humber in the sides of the cheeks, in the roof of the palate, around the geonphagus.

less number in the sides of the cheeks, in the root of the palate, around the esophagus.

5. The parotid, the submazillary, and sublingual glands, which secrete the saliva of the mouth, the liver, and the panereas; the first of which pours the bile, the second the pancreatic juice, by distinct canals, into the superior part of the small intestine, called duodenum.

All the digestive organs contained in the abdominal All the digestive organs contained in the abdominal cavity are immediately covered, more or less completely, by the serous membrane called the peritoneum. This membrane, by the manner in which it is disposed, and by its physical and vital properties, is very useful in the act of digestion, by preserving to the organs their respective relations, by favouring their changes of volume, by rendering easy the siding motions which they perform upon each other, and upon the adjoining parts. adjoining parts.

The surface of the mucous digestive membrane is

and the fluids of the mucus, glands, by movements of the mucus, with a light gray that; it adheres to the mouth, in the pharyax, and in the case place at a cream the small on the small restored in the mouth, in the pharyax, and in the case and the case which and the pharyax, and in the case and the case when the continued to the continued to the case when the case when the continued to the case when the case wh and the fluids of the mucous glands, by movements of and the initiation the initions gains, by inventions of deglutition, which succeed each other at near intervals. According to this detail, it would appear that the stomach ought to contain, after it has been some time empty of aliments, a considerable quantity of a time empty of aliments, a considerable quantity of a mixture of mucus, of saliva, and follicular fluid. This observation is not proved, at least in the greatest number of individuals. However, in a number of persons, who are evidently in a particular state, there exist, in the morning, in the stomach, many ounces of this mixture. In certain cases it is founty, slightly troubled, very little viscous, holding suspended some flakes of mucus; its taste is quite acid, not disagreeable, very sensible in the throat, acting upon the tech, so as to diminish the polish of their surface, and rendering their motion upon each other more difficult. This liquid readens paper stained with turnsol.

In the same individual, in other circumstances, and with the same individual, in other circumstances, and with the same appearances as to colour, transparency,

In the same individual, in other circumstances, and with the same appearances as to colour, transparency, and consistency, the liquid of the stomach had no savour, nor any acid property; it is a little salt: the solution of potassa, as well as the mitric and sulphuric acids, produced in it no apparent change.

When we examine the dead bodies of persons killed by accident, the stomach not having received any aliments nor drink for some time, this organ contains only a very few acid mucosities adhering to the coats of the stomach part of which is the stories are transparency.

stomach, part of which, in the pytoric portion of that viscus, appears reduced to chyme. It is, then, very probable, that the liquid which ought to be in the stomach is digested by this viscus as an alimentary substance, and that this is the reason why it does not accumulate there

In animas the organization of which approaches to that of man, such as dogs and cats, there is no liquid found in the stomach after one, or many days of comlound in the stomach after one, or many days of complete abstinence; there is seen only a small quantity of viscous mucosity adhering to the sides of the organ, towards its spleaic extremity. This matter has the greatest analogy, both chemical and physical, with that which is found in the stomach of man. But, if we make these animals swallow a body which is not susceptible of being digested, as a pebble for example, there forms, after some time, in the cavity of the stomach, a certain quantity of an acid liquid mucus of a gravish colour, sensibly salt, which, in the convenience. a grayish colour, sensibly salt, which, in its composition, is nearly the same as that found sometimes in-

This liquid, resulting from the mixture of the mucosities of the mouth, of the pharynx, of the œsophagus and the stomach, with the liquid secreted by the follicles of the same parts and with the saliva, has been called by physiologists the gastric juice, and to which they have attributed particular properties.

In the small intestine there is also formed a great quantity of mucous matter, which rests habitually attached to the sides of the intestine; it differs little from that of which we have spoken above; it is viscid, tough, and has a salt and acid savour; it is renewod with great rapidity. If the mucous membrane of this intestine is laid bare, in a dog, and the layer of mucus absorbed by a sponge, it will appear again in a minute. This observation may be repeated as often as we please, until the intestine becomes inflamed by the

contact of the air, and foreign bodies.

The mucus of the stomach penetrates into the cavity of the small intestine only under the form of a pulpous matter grayish and opaque, which has all the appearance of a particular chyme.

It is at the surface of this same portion of the diges-

tive canal that the bile is delivered as well as the liquid

slower; sometimes a quarter of an hour passes before a drop of this fluid springs from the orifice of the canal which pours it into the intestine.

The different fluids deposited in the small intestine, which are, the chymous matter that comes from the stomach, the mucus, the follicular fluid, the bile, and the pancreatic liquid, all mix together; but, on account of its properties, and perhaps of its proportions, the bile predominates, and gives to the mixture its proper taste and colour. A great part of this mixture descends towards the large intestine, and passes into it; in this passage, it becomes more consistent, and the clear yellow colour which it had before becomes dark, and afterward greenish. There are, however, in this respect, strong individual differences.

In the large intestine, the mucous and follicular se-

In the large intestine, the mucous and follicular se-cretion appears less active than in the small intestine; the mixture of fluids which comes from the small intestine acquires in it more consistence; it contracts a fætid odour, analogous to that of ordinary excrements: it has, besides, the appearance of it, by its colour,

odour, &c.
The knowledge of these facts enables us to understand how a person who uses no aliments can continue to produce excrements, and how, in certain diseases, their quantity is very considerable, though the sick person has been long deprived of every alimentary substance, even of a liquid kind. Round the anus exist follicles, which secrete a fatty matter of a singu-

larly powerful odour.
We find gas almost always in the intestinal canal; We find gas almost always in the intestinal canal; the stomach contains only very little. The chemical nature of these gases has not yet been examined with care; but as the saliva that we swallow is always more or less impregnated with atmospheric air, it is probably the atmospheric air, more or less changed, which is found in the stomach. At least, it contains carbonic acid. The small intestine contains only a small quantity of gas; it is a mixture of carbonic acid, of azote and hydrogen. The large intestine contains carbonic acid, azote, and hydrogen, sometimes carburetted, sometimes sulpluretted. Twenty-three per cent. of this gas was found in the rectum of an individual, whose large intestine contained in o excredividual, whose large intestine contained no excre-

The muscular layer of the digestive canal deserves to be remarked, in respect to the different modes of contraction it presents. The lips, the jaws, in most cases the tongue, the cheeks, are moved by a contraction, entirely like that of the muscles of locomotion. The roof of the palate, the pharynx, the esophagus, and the tongue in certain particular circumstances, offer many motions, which have a manifest analogy with muscular contraction, but which are very different from it, because they take place without the participation of the will.

This does not imply that the motions of the parts just named are beyond the influence of the nerves; experience proves directly the contary. If, for example, the nerves that come to the cosphagus are cut, this tube is deprived of its contractile faculty.

The muscles of the velum of the palate, those of the pharynx, the superior two-thirds of the coophagus, scarcely contract like digestive organs, but when they

scarcely contract like digestive organs, but when they act in permitting substances to pass from the mouth into the stomach. The inferior third of the esophagus presents a phenomenon which is important to be known: this is an alternate motion of contraction and relaxation which exists in a constant manner. The contraction commences at the union of the superior contraction commences at the union of the superior two-thirds of the canal with the anjernor thrd; it is continued, with a certain rapidity, to the insertion of the osophagus into the stomach: when it is once produced, it continues for a time, which is variable; its mean duration is, at least, thirty seconds. Being so contracted in its inferior third, the osophagus is hard

cut, the esophagus no longer contracts, but neither is it in the relaxed state that we have described; its fibres being separated from nervous influence, shorten themselves with a certain force, and the canal is found in an intermediate state between contraction and relaxa-tion. The vacuity, or distention of the stomach, has an influence upon the duration and intensity of the

contraction of the esophagus.

From the inferior extremity of the stomach to the From the inferior extremity of the stomach to the end of the intestine rectum, the intestinal canal presents a mode of contraction which differs, in almost every respect, from the contraction of the sub-diaphragmatic portion of the canal. This contraction always takes place slowly, and in an irregular manner; sometimes an hour passes before any trace of it can be performed to the times are intestinal portions contract. ceived; at other times many intestinal portions contract at once. It appears to be very little influenced by the at once. It appears to be very little influenced by the mervous system: for example,—it continues in the stomach after the section of the nerves of the eighth pair; it becomes more active by the weakness of animals, and even by their death; in some, by this cause it becomes considerably accelerated; it continues though the intestinal canal is entirely separated from the body. The pyloric portion of the istomach, the small intestine, are the points of the intestinal canal where it is presented oftenest, and most constantly. This motion, which arises from the successive or simultaneous contraction of the longitudinal or circular fibres of the intestinal canal, has been differently denominated by traction of the longitudinal of circular hores of the in-testinal canal, has been differently denominated by authors: some have named it vermicular, others peris-taltic, others again, sensible organic contractifity, &c. Whatever it is, the will appears to exert no sensible influence upon it.

influence upon it.

The muscles of the anus contract voluntarily.

The supra-diaphragmatic portion of the digestive canal is not susceptible of undergoing any considerable dilatation; we may easily see, by its structure, and the mode of contraction of its muscular coat, that it is not support the suprain in its cavity. intended to allow the aliments to remain in its cavity, but that it is rather formed to carry these substances from the mouth into the stomach: this last organ, and the mount mother stomach. This isst organ, and the large intestine, are evidently prepared to undergo a very great distention; substances, also, which are introduced into the alimentary casal, accumulate, and remain for a time, more or less, in their interior.

The diaphragm, and the abdominal muscles, produce a sort of pregregula egitation of the disease.

duce a sort of perpetual agitation of the digestive or-gans contained in the abdominal cavity; they exert, upon them, a continual pressure, which becomes some-times very considerable.

The digestive actions which by their union consti-

tute digestion, are—

1. The apprehension of aliments.

2. Mastication

Insalivation. Deglutition.

The action of the stomach.
The action of the small intestines.
The action of the large intestines.

The expulsion of the feecal matter

All the digestive actions do not equally contribute to the production of chyle; the action of the stomach and that of the small intestines, are alone absolutely

The digestion of solid food requires generally the eight digestive actions; that of drinks is much more simple; it comprehension, deglution, the action of the stomach, and that of the small

intestine.

The mastication and deglutition of the food being effected, we have now to notice the action of the sto mach on the aliment: chemical alterations will now present themselves to our examination. In the sto-mach the food is transformed into a matter proper to

animals, which is named chyme.

Before showing the changes that the food undergoes in the stomach, it is necessary to know the phenomena I stomach with both hands. It will be nearly impossible

and elastic, like a cord strongly stretched. The relaxation which succeeds the contraction happens all at once, and simultaneously in all the contracted fibres; in certain cases, however, it seems to take place from the superior to the inferior fibres. In the state of relaxation, the esophagus presents a remarkable flacidity, which makes a singular contrast with its state of contraction.

This motifiance. This organ is not much compensed by the surrounding viscera; its sides separate feasily, and give way to the force which presses the alicidity, which makes a singular contrast with its state of contraction.

This motifiance flows of hose surrounding viscera; its sides separate feasily, and give way to the force which presses the alicidity, which makes a singular contrast with its state of contraction.

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This motifials of food swallowed are easily local and general effects that result from it.

The first mouthfuls of food swallowed are easily local and general effects that result from it.

The first mouthfuls of food swallowed are easily local and general effects that result from it.

The first mouthfuls of food swallowed are easily local and general effects that result from it.

of gives way with more difficulty.
While the stomach is distended, its form, its relations, and even its positions, undergo alterations: in place of being flattened on its aspects, of occupying only the epigastrium and a part of the left hypochondrionly the epigastrium and a part of the left hypochondri-um, it assumes a round form; its great cul de sae is thrust fint this hypochondrium, and fills it almost com-pletely; the greater curvature descends towards the umbilicus, particularly on the left side; the pylorus, alone, fixed by a fold of the peritonaum, preserves its motion and its relations with the surrounding parts. On account of the resistance that the vertebral column presents behind, the posterior surface of the stomach cannot distend itself on that side: for that reason this viscus is wholly carried forward; and as the pylorus and the geophagus cannot be displaced in this discand the esophagus cannot be displaced in this direc-tion, it makes a motion of rotation, by which its great curve is directed a little forward; its posterior aspect inclines downwards, and its superior upwards.

Though it undergoes these changes of position and

I nough it unergoes these changes or position and relation, it, nevertheless, preserves the recurved conoid form which is proper to it. This effect depends on the manner in which the three tunies contribute to its dilatation. The two plates of the serous membrane separate and give place to the stomach. The muscular layer suffers a real distention; its fibres are prolonged, but so as to preserve the particular form of the stomach. Lastly, the mucous membrane gives way, particularly in the points where the folds are multiplied. It will be noticed that these are found particularly along the

larger curve, as well as at the splenic extremity.

The dilatation of the stomach alone produces very important changes in the abdomen. The total volume of this cavity augments; the belly juts out; the abdominal viscera are compressed with greater force; often the necessity of passing urine, or feeces, is felt. The diaphragm is pressed towards the breast, it de-

The diaphragm is pressed towards the breast, it descends with some difficulty; thence the motions of respiration, and the phenomena which depend on it, are more incommoded, such as speech, singing, &c.

In certain cases, the dilatation of the stomach may be carried so far that the sides of the abdomen are painfully distended, and respiration becomes difficult.

To produce such effects, the contraction of the &sophagus, which presses the food in the stomach, must be very energetic. We have remarked above the con siderable thickness of the muscular layer of this canal, and the great number of nerves which go to it nothing. and the great number of nerves which go to it; nothing less than this disposition is necessary to account for the force with which the food distends the stomach. more certainty, the finger has only to be introduced into the esophagus of an animal by the cardiac orifice, and the force of the contraction will be found

But if the food exerts so marked an influence upon the sides of the stomach and the abdomen, they ought the sides of the stomach and the abdomen, they ought themselves to suffer a proportionate reaction, and tend to escape by the two openings of the stomach. Why does this effect not take place? It is generally said that the cardia and pylorus shut; but this pheno-menon has not been submitted to any particular re-searches. Here is what Dr. Magendie's experiments have readed in this general.

searches. Here is what Dr. Magendie's experiments have produced in this respect.

The alternate motion of the esophagus prevents the return of the food into this cavity. The more the stomach is distended, contraction becomes the more intense and prolonged, and the relaxation of shorter duration. Its contraction generally coincides with the instant of inspiration, when the stomach is most forcibly compressed. Its relaxation ordinarily happens at the instant of expiration.

We may have an idea of this recharges by lacing

the instant of expiration.

We may have an idea of this mechanism by laying bare the stomach of a dog, and endeavouring to make the food pass into the esophagus by compressing the

to succeed, whatever force is used, if it is done at the instant when the cosophagus is contracted; but the passage will take place, in a certain degree, of itself; if the stomach is compressed at the instant of relaxation to the properties of the food. This description leaves much to be explained. The result of Dr. Magendie's experiments are as follows:

tion.

The resistance that the pylorus presents to the passage of the aliments is of another kind. In living animals, whether the stomach is empty or full, this opening is habitually shut, by the constriction of its fibrous ring, and the contraction of its circular fibres. There is frequently seen another constriction in the stomach, at the distance of one or two inches, which appears intended to prevent the food from reaching the appears mentioned to prevent the room from reaching the pylorius; we perceive, also, irregular and persistalic confractions, which commence at the duodenium, and are continued into the pyloric portion of the stomath, the effect of which is to press the food towards the splenic part. Besides, should the pylorus not be naturally shut, the food would have little tendency to enter it, for it only endeavours to escape into a place where the pressure is less; and this would be equally great in the small intestine as in the stomach, since it is nearly equally distributed over all the abdominal cavity.

Among the number of phenomena produced by the

Among the number of pierometal pottered by effective food in the stomach, there are several, the existence of which, though generally admitted, do not appear sufficiently demonstrated; such is the diminution of the volume of the spleen, and that of the blood-vessels of the liver, or the spicet, and that of the blood-vessels of the liver, or the omenta, &c.; such is also a motion of the stomach, which should preside over the reception of the food, distribute it equally by exerting upon it a gentle pressure, so that its dilatation, far from being a passive phenomenon, must be essentially active. Dr. a passive pienomenon, must be essentially active. Dr. Magendie has frequently opened animals the stomachs of which were filled with food; he has examined the bodies of executed persons, a short time after death, and has seen nothing favourable to these assertions. The accumulation of food in the stomach is accompanied by many sensations, of which it is necessary to take account—at first it is an argeable feeling or the

panied by many sensations of which it is necessary to take account:—at first, it is an agreeable feeling, or the pleasure of a want satisfied. Hunger is appeased by degrees; the general weakness that accompanied it is replaced by an active state, and a feeling of new force. If the introduction of food is continued, we experience a sensation of fulness and satiety which indicates that the stomach is sufficiently replenished; and if, con-trary to this instinctive information, we still persist to make use of food, disgust and nausea soon arrive, and they are very soon followed by vomiting. These different impressions must not be attributed to the volume of the aliments alone. Every thing being equal in other respects, food very nutritive occasions, more promptly, the feeling of satiety. A substance which is not very nourishing does not easily calm hunger,

is not very nourishing does not easily calm hunger, though it is taken in great quantity.

The mucous membrane of the stomach, then, is endowed with considerable sensibility, since it distinguishes the nature of substances which come in contact with it. This property is very strongly marked if an irritating poisonous substance is swallowed; intolerable pain is then felt. We also know that the stomach is sensible to the ten perature of food.

We cannot doubt that the presence of the aliments of the stomach causes a great excitement, from the redness of the mucous membrane, from the quantity of fluid it secretes, and the volume of vessels directed there; but this is favourable to chymification. This excitement of the stomach influences the general state of the functions.

The time that the aliments remain in the stomach is considerable, generally several hours; it is during this

considerable, generally several notice, he is during this stay that they are transformed into chyme.

Changes of the aliments in the stomach:

It is more than an hour before the food suffers any apparent change in the stomach, more than what re-sults from the perspiratory and mucous fluids with which they are mixed, and which are continually re-

The stomach is uniformly distended during this time; but the whole extent of the pyloric portion aftervard contracts, particularly that nearest the splenic portion, into which the food is pressed. Afterward, there is nothing found in the pyloric portion but chyme, mixed with a small quantity of unchanged

A. There are as many sorts of chyme as there are different sorts of food, if we judge by the colour, consistence, appearance, &c.; as we may easily ascertain, by giving different simple alimentary substances to dogs to eat, and killing them during the operation of digestion. He frequently found the same result in the dead hoties of eximples or persons dead man, in the dead bodies of criminals, or persons dead

B. Animal substances are generally more easily and completely changed than vegetable substances. It frequently happens that lines last traverse the whole intestinal canal without changing their apparent properties. He has frequently seen in the rectum, and in the small intestine, the vegetables which are used in soup, spinage, sorrel, &c., which had preserved the most part of their properties: their colour alone appeared sensibly changed by the contact of the bile.

Chyme is formed particularly in the pyloric portion. The food appears to be introduced slowly into it, and during the time they remain they undergo transformation. The Doctor believes, however, that he has observed frequently chymous matter at the surface of the mass of allinents which fill the splenic portion; but the aliments in general preserve their properties in B. Animal substances are generally more easily and

but the aliments in general preserve their properties in

this part of the stomach.

It would be difficult to tell why the pyloric portion is better adapted to the formation of chyme than the rest of the stomach; perhaps the great number of follicles that are seen in it modify the quantity or the nature of the fluid that is there secreted. The transformation of alimentary substances into chyme takes place generally from the superficies to the centre. On the surface of portions of food swallowed, there is formed, a soft layer easy to be detached. The substances seem to be attacked and corroded by a reagent capable of dissolving them. The white of a hard egg, for in-stance, becomes in a little time as if plunged in vinegar, or in a solution of notassa. better adapted to the formation of chyme than the rest or in a solution of potassa.

C. Whatever is the alimentary substance employed,

C. Whatever is the alimentary substance employed, the chyme has always a sharp odour and taste, and reddens paper coloured with turnsol.

D. There is only a small quantity of gas found in the stomach during the formation of chyme; sometimes there exists none. Generally, it forms a small bubble at the superior part of the splenic portion. Once only in the body of a criminal a short time after death he gathered with proper precautions a quantity sufficient to be analyzed. Chevreuil found it composed of: posed of:

Total,.....100.00

There is rarely any gas found in the stomach of a dog. We cannot then believe, with Professor Chaussier, that we swallow a bubble of air at every motion of deglutition, which is pressed into the stomach by the alimentary bole. Were it so, there ought to be found a considerable quantity of air in this organ after a meal; now the contravaria to be seen.

found a considerable quantity of air in this organ after a meal: now the contrary is to be seen.

E. There is never a great quantity of chyme accumulated in the pyloric portion: the most that the Doctor ever saw in it was carcely equal in volume to two or three ounces of water. The contraction of the stomach appears to have an influence upon the production of chyme. The following is what he observed in this respect. After having been some time immoveable, the extremity of the duodenum contracts, the pylorus and the pyloric portion contract also; this motion presses the chyme towards the splenic portion; but it afterward presses it in a contrary direction, that is, after being distended, and having permitted the chyme to enter again into its cavity, the pyloric portion contracts from left to right, and directs the chyme towards the duodenum, which immediately passes the towards the duodenum, which immediately passes the pylorus and enters the intestine.

The same phenomenon is repeated a certain number The best authors have agreed to consider the chyme of times, but it stops to begin again, after a certain as a homogeneous substance, pultaceous, grayish, of time. When the stomach contains much food, this

motion is limited to the parts of the organ nearest the l pylorus; but in proportion as it becomes empty, the motion extends farther, and is seen even in the splenic portion when the stomach is almost entirely empty. It becomes generally more strong about the end of chymification. Some persons have a distinct feeling of it at this moment.

The pylorus has been made to play a very important part in the passage of the chyme from the stomach to the intestine. It judges, they say, of the chymification of the food; it opens to those that have the required qualities, and shuts against those that have not. ever, as we daily observe substances not digestible traverse it easily, such as stones of cherries, it is added, that becoming accustomed to a substance no chymined, which presents itself repeatedly, it at last opens a passage. These considerations, consecrated in a certain degree by the word pylorus, a porter, may please the fancy, but they are purely hypothetical.

F. All the alimentary substances are not transformed into chymic with the same promptitude.

Generally the fat substances, the tendons, the cartilages, the concrete albumen, the muciliaginous and sweet vegetables, resist more the action of the stomach than the caseous, fibrinous, and glutinous substances. Even some substances appear erractory: such as the bones, the epidermis of fruits, their stones, and whole seeds, &c. ever, as we daily observe substances not digestible tra-

seeds, &c.

In determining the digestibility of food, the volume of the portions swallowed ought to be taken into account. The largest pieces, of whatever nature, remain longest in the stomach; on the contrary, a substance which is not digestible, if it is very small, such as grape stones, does not rest in the stomach, but passes on the stomac

as grape stones, does not read in the stoneart, our passes quickly with the chyme into the intestine. In respect of the facility and quickness of the forma-tion of chyme, it is different in every different indi-vidual. It is evident, after what has been said, that to fix the necessary time for the chymification of all the food contained in the stomach, we ought to take into account their quantity, their chemical nature, the manner in which the mastication acts upon them, and the ner in which the illustration are individual disposition. However, in four or five hours after an ordinary meal, the transformation of the whole of the food into chyme is generally effected.

The nature of the chemical changes that the food

undergoes in the stomach is unknown. It is not be-cause there have been no attempts at different periods cause there have been no attempts at different periods to give explanations of them more or less plausible. The ancient philosophers said that the food became putrified in the stomach; Hippocrates attributed the digestive process to coction; Galen assigned the stomach attractive, retentive, concoctive, expulsive faculties, and by their help he attempted to explain digestion. The doctrine of Galen reigned in the schools until the middle of the seventeenth century, when it was attacked and overturned by the fermenting chemists, who established in the stomach an effective scence, nearliering former than the stomach and effective scence. a particular fermentation, by means of which the food

a particular termientation, or means of which the tools was macerated, dissolved, precipitated, &c.

This system was not long in repute; it was replaced by ideas much less reasonable. Digestion was supposed to be only a tritucation, a bruising performed by the stomach; an Innumerable quantity of little worms was supposed to attack and divide the food. Boerhaave thought he had found the truth, by combining the different opinions that had reigned before him. Haller did not follow the ideas of his master; he considered digestion a simple maceration. He knew that vegetable and animal matters, plunged into water, are soon covered with a soft homogeneous layer; he be-lieved that the food underwent a like change, by ma-cerating in the saliva and fluids secreted by the

stomach

Reaumur and Spallanzani made experiments on animals, and demonstrated the falsity of the ancient systems; they showed that food, contained in hollow metallic balls pierced with small holes, was digested the same as if it was free in the cavity of the stomach. same as if it was fee in the cavity of the solina-They proved that the stomach contains a particular fluid, which they call gastric juice, and that this fluid was the principal agent of digestion; but they much exaggerated its properties, and they were mistaken when they thought to have explained digestion in con-sidering it as a solution; because, in not explaining this solution, they did not explain the changes of food in the stomach.

In the formation of chyme, it is necessary to constder, 1st, The circumstances in which the food is found in the stomach. 2dly, The chemical nature of it.

The circumstances affecting the food in the stomach,

during its stay there, are not numerous: 1st. it suffers a pressure more or less strong, either from the sides of the abdomen, or from those of the stomach; 2dly, the whole is entirely moved by the motions of respiration; whole is entirely moved by the motions of respiration; 3dly, it is exposed to a temperature of thirty to thirty-two degrees of Reaumur; 4thly, it is exposed to the action of the saliva, of the mucesities proceeding from the mouth and the esophagus, as well as the fluid secreted by the mucous membrane of the stomach. It will be remembered that this fluid is slightly vis-

cous, that it contains much water, mucus, salts, with a base of soda and ammonia, and lactic acid of Ber-

With regard to the nature of the food, we have already seen how variable it is, since all the immediate principles, animal or vegetable, may be carried into the stomach, in different forms and proportions, and serve usefully in the formation of chyme. Now, making allowance for the nature of the food, and the circumstances in which it is placed in the stomach, shall we be able to account for the known phenomena of the formation of clyme? The temperature of thirty to thirty-two degrees, R. = 100 to 104 F.; the pressure, and the tossing that the food sustains, cannot be considered as the principle agence for the temperature. sidered as the principal cause of its transformation into chyme; it is probable that they only co-operate in this; the action of the saliva and that of the fluid secreted in the stomach remain; but after the known composition of the saliva, it is hardly possible that it can attack and change the nature of the food; at most, it can only serve to divide, to imbibe it in such a manner as to separate its particles: it must then be the action of the fluid formed by the internal membrane of the sto-It appears certain that this fluid, in acting chemach. mically upon the alimentary substances, dissolves them from the surface towards the centre.

To produce a palpable proof of it, with this fluid of

To produce a papage proof of 11, with this mud of which we speak, there have been attempts made to produce what is called in physiology, artificial digestions, that is, after having macerated food, it is mixed with gastric juice, and then exposed in a tube, or any other vase, to a temperature equal to that of the stomach. Spalianzani advanced, that these digestions succeeded, and that the food was reduced to gestions succeeded, and that the food was reduced to chyme; but, according to the researches of de Montegre, it appears that they are not; and that, on the contrary, the substances employed undergo no alteration analogous to chymfication; this is agreeable to experiments made by Reaumur. But because the gastric juice does not dissolve the food when put with it into a tube, we ought not to conclude that the same fluid cannot dissolve the food when it is introduced into the stangard; the circumstances are induced for from being stomach; the circumstances are indeed far from being the same: in the stomach, the temperature is constant, the food is pressed and agitated, and the saliva and the food is pressed and aguated, and the sanya and gastric juice are constantly renewed; as soon as the chyme is formed, it is carried away and pressed in the duodenum. Nothing of this take place in the tube or vase which contains the food mixed with gastric juice; therefore, the want of success in artificial di-gestions, proves nothing which tends to explain the formation of chyme.

But how does it happen that the same fluid can act in a manner similar upon the great variety of alimentary substances, animal and vegetable? The acidity which characterizes is though fit to dissolve certain matters, as albumen, for example, would not be suitable for dissolventiate.

e for dissolving fat. To this it may be answered, that nothing proves the gastric juice to continue always the same; the small number of analyses that have been made of it demonstrate, on the contrary, that it presents considerable varieties in its properties. The contact of different sorts of food upon the mucous membrane of the stomach, may possibly influence its composition; it is at least certain, that this varies in the different animals. For example, that of man is incapable of acting on bones; it is well known that the dog digests these substances perfectly.

Generally speaking, the action by which the chyme is formed prevents the reaction of the constituent chements of the food upon each other; but this effort takes place only in good digestions; in bad digestion,

fermentation, and even putrefaction may take place: this may be suspected by the great quantity of inodor-ous gases that are developed in certain cases, and the

ous passes and are developed in certain cases, and the sulphirretted hydrogen which is disengaged in others. The nerves of the eighth pair have long been considered to direct the act of chymitication: in fact, if these nerves are cut, or tied in the neck, the matters introduced into the stomach undergo no alteration. introduced into the stomach undergo no alteration. But the consequence, (says Dr. Magendie) that is deduced from this fact, does not appear to me to be rigorous. Is not the effect produced upon the stomach by the injury done to respiration, confounded here with the direct influence of the section of the nerves of the eighth pair upon this organ? I am inclined to believe it: for, as I have many times done, if the two eighth pairs he cut in the breast below the branches which go to the lungs, the food which is introduced afterward into the stomach is transformed into chyme, and ultimately furnishes an abundant chyle.

Some persons imagine that electricity may have an Some persons imagine that electricity may have an influence in the production of chyme, and that the nerves we mention may be the conductors: there is no established fact to justify this conjecture. The most probable use of the nerves of the eighth pair is, to establish intimate relations between the stomach and the brain, to give notice whether any noxious substances

have entered along with the food, and whether they are capable of being digested.

In a strong person, the operation of the formation of In a strong person, the operation of the formation of chyme takes place without his knowledge; it is merely perceived that the sensation of fulness, and the difficulty of respiration produced by the distention of the stomach, disappear by degrees; but frequently, with people of a delicate temperament, digestion is accompanied with feebleness in the action of the senses, with a general coldness, and slight shiverings; the activity a general coldness, and signt suverings, the working of the mind diminishes, and seems to become drowsy, and there is a disposition to sleep. The vital powers are then said to be concentrated in the organ that acts, and to abandon for an instant the others. To those and to abandon for an instant the others. To those general effects are joined the production of the gas that general enects are joined the production of the gas that escapes by the mouth, a feeling of weight, of heat, of giddiness, and sometimes of burning, followed by an analogous sensation along the exophagus, &c. These effects are felt particularly towards the end of the chymification. It does not appear, however, that these latorious digestions are much less beneficial than the

From the stomach, the food is received into the small intestine, which is the longest portion of the digestive canal; it establishes a communication between gestive canar, it establishes a confirmation netween the stomach and the large intestine. Not being sus-ceptible of much distention, it is twisted a great many times upon itself, being much longer than the place in which it is contained. It is fixed to the vertebral column by a fold of the peritonæum, which limits, yet aids its motions; its longitudinal and circular fibres are not separated as in the stomach; its mucous membrane, which presents many villi, and a great number of mucous follicles, forms irregular circular folds, the number of which are greater in proportion as the intes-tine is examined nearer the pyloric orifice: these folds

are called valvula connicentes.

The small intestine receives many blood-vessels; its nerves come from the ganglions of the great sympathetic. At its internal surface, the numerous orifices

of the chyliferous vessels open

This intestine is divided into three parts, called the duodenum, jejunum, and ileum. The nucous mem-brane of the small intestine, like that of the stomach, secretes abundance of mucus; viscous, thready, of a salt taste, and reddens strongly turnsol paper; all which properties are also in the liquid secreted by the sto-mach. Haller gave this fluid the name of intestinal juice; the quantity that is formed in twenty-four hours he estimated at eight pounds.

Not far from the gastric extremity of this intestine is the common orifice of the biliary and pancreatic canals, by which the fluid secreted by the liver and the pancreas flow into the intestinal cavity. If the formation of the chyme is still a mystery, the nature of the phenomena that take place in the small intestine

are little better known.

In the experiments which have been made on dogs and rabbits, the chyme is seen to pass from the stomach into the duodenum. The phenomena are these. At intervals, more or less distant, a contractile motion |

commences towards the middle of the duodenum; it commences towards the middle of the duodenum; in spropagated rapidity to the site of the pylorus; this ring contracts itself, as also the pyloric part of the stomach; by this motion, the matters contained in the duodenum are pressed back towards the pylorus, where they are stopped by the valve, and those that are found in the pyloric part, are partly pressed towards the splenic part; but this motion, directed from the intestine towards the stomach, is very soon replaced by another in a contrary direction, that is, which propagates itself from the stomach towards the glorus direction. gates itself from the stomach towards the duodenum, the result of which is to make a considerable quantity

of chyme pass the pylorus.

This fact seems to indicate that the valve of the pylorus serves as much to prevent the matters contained in the small intestine from flowing back into the stomach, as to retain the chyme and the food in the cavity of this organ.

cavity of this organ.

The motion that we have described, is generally repeated many times following, and modified as to the rapidity, the intensity of the contraction, &c.; it then ceases to begin again after some time. It is not very marked in the first moments of the formation of the chyme; the extremity only of the pyloric part participairs in it. It augments in proportion as the stomach becomes empty; and, towards the end of chymifcation, it often takes place over the whole stomach. It is not suspended by the section of the nerves of the

eighth pair.

Thus the entrance of chyme into the small intestine is not perpetual. According as it is repeated, the chyme accumulates in the first portion of the intestine, it distends its sides a little, and presses into the intervals of the valves; its presence very soon excites the organ to contract, and by this means one part advances into the intestine; the other remains attached to the surface of its membrane, and afterward takes the same The same phenomenon continues down to the large intestine; but, as the duodenum receives new portions of the chyme, it happens at last that the small intestine is filled in its whole length with this matter. It is observed only to be much less abundant near the cæcum than at the pyloric extremity.

The motion that determines the progress of the chyme through the small intestine, has a great analogy with that of the pylorus: it is irregular, returns at periods which are variable, is sometimes in one direcrious which are variable, is sometimes in one direction, sometimes in another, takes place sometimes in many parts at once; it is always slow, more or less; it causes relative changes among the intestinal circumvolutions. It is beyond the influence of the will.

We should form a false idea of it were we increly to examine the intestine of an animal recently dead; it has then a much greater activity than during life.

Nevertheless, in weak digestions it appears to acquire

more than ordinary energy and velocity.

In whatever manner this motion takes place, the chyme appears to move very slowly in the small intes-tine: the numerous valves that it contains, the multi-tude of asperities that cover the mucous membrane, the many bendings of the canal, are so many circumstances that ought to contribute to retard its progress, but which ought to favour its mixture with the fluids contained in the intestine, and the production of the chyle which results from it.

Changes that the chyme undergoes in the small intestine.—It is only about the height of the orifice of the choledochus and pancreatic canal that the chyme me photedochus and pancreatic canal that the chyme begins to change its properties. Before this, it preserves its colour, its semi-fluid consistence, its sharp odour, its slightly acid savour; but, in mixing with the bile and the pancreatic pitce, it assumes new qualities: its colour becomes yellowish, its taste bitter, and its sharp odour diminishes much. If it proceeds from animal or vegetable matters, which contained grease or oil, irregular, filaments are seen to form here and there oil, irregular filaments are seen to form here and there upon its surface; they are sometimes flat, at other times rounded, attach themselves quickly to the surface of the valve, and appear to consist of crude chyle. This matter is not seen when the chyme proceeds from matter that contained no fat; it is a grayish layer, more or less thick, which adheres to the mucous membrane, and appears to contain the elements of chyle. The same phenomena are observed in the two superior thirds of the small intestine: but in the inferior third, the chymous matter is more consistent; its yellow co lour becomes more deep; it ends sometimes by becom-

ing of a greenish brown, which pierces through the intestinal parietes, and gives an appearance to the ileum, distinct from that of the duodenum and jojunum. When it is examined near the cacum, there are few or When it is examined near the cacam, there are few or no whitish chylones strim seen; it is seems; in this place, to be only the remainder of the matter which has berved in the formation of the chyle.

After what has been said above, upon the varieties that the chyme presents, we may understand that the changes it undergoes in the small intestine are variable

according to its properties; in fact, the phenomena of digestion in the small intestine, vary according to the nature of the food. The chyme, however, preserves its acid property; and if it contains small quantities of food or other bodies that have resisted the action of the stomach, they traverse the small intestine without undergoing any alteration. The same phenomena appear when the same substances have been used. Dr. Magendie has ascertained this fact upon the bodies of Inagenie has accreained this late upon the doctor two criminals, who, two hours before death, had taken an ordinary meal, in which they had eaten the same food nearly in equal quantity; the matters contained in the stomach, the chyme in the pyloric portion and in the small intestine, appeared to him exactly

the same as to consistence, colour, taste, odour, &c.

There is generally gas found in the small intestine during the formation of chyle. Drs. Magendie and Chevreui have made experiments upon the bodies of criminals opened shortly after death, and who, being young and vigorous, presented the most favourable con-ditions for such researches. In a subject of twentyfour years, who had eaten, two hours before his death, bread, and some Swiss cheese, and drank water red-

| Oxygen        |       |
|---------------|-------|
| Carbonic acid | 24.39 |
| Pure hydrogen | 55.53 |
| Azote         | 20.08 |
| -             |       |
| Total         | 00.00 |

In a second subject, aged twenty-three years, who had eaten of the same food at the same hour, and whose punishment took place at the same time:

| Oxygen        | 0.00   |
|---------------|--------|
| Carbonic acid | 40.00  |
| Pure hydrogen | 51.15  |
| Azote         |        |
|               |        |
| Total         | 100.00 |

In a third experiment, made upon a young man of twenty-eight years, who, four hours before death had eaten bread, beef, lentiles, and drank red wine, they found in

| Oxygen        |        |
|---------------|--------|
| Pure hydrogen | 8.40   |
| Azote         |        |
| Total         | 100 00 |

They never observed any other gases in the small intestine. These gases might have different origins. They might possibly come from the stomach with the chyme; or they were, perhaps, secreted by the intes-tinal mucous membrane; they might arise from the reciprocal action of the matters contained in the intestine; or perhaps they might come from all these sources at once.

However, the stomach contains oxygen, and very little hydrogen, while they have almost always found much hydrogen in the small intestine, and never any oxygen. Besides, it is a daily observation, that the little gas that the stomach contains is generally passed by the mouth towards the end of chymification, probably, because at this instant it can more easily ad-

vance into the esophagus.

The probability of the formation of gases by the secretion of the mucous membrane could not be at all admissible, except for carbonic acid, which seems to be formed in this manner in respiration. With regard to the action of matters contained in the intestine, Dr. Magendie says he has many times seen the chymous matter let bubbles of gas escape very rapidly. This took place from the orifice of the ductus choledochus to the commencement of the iloum; there was no trace

of it perceived in this last intestine, nor in the superlor part of the duodenum, nor the stomach. He made this observation again upon the body of a crimmal four hours after death; it presented no traces of putre-

The alteration which chyme undergoes in the sma't intestine is unknown; it is easily seen to be the result of the action of the bile, of the pancreatic juice, and of the fluid secreted by the mucous membrane, upon the chyme. But what is the play of the affinities in this real chemical operation, and why is the chyle precipitated against the surface of the valvulæ conniventes, while the rest remains in the intestine to be afterward expelled? This is completely unknown.

ward expelled? This is completely unknown.
We have learned something more of the time that
is necessary for this alteration of the chyme. The
phenomenon does not take place quickly: in animals,
it often happens that we do not find any chyle formed
three or four hours after the meal.

After what has been said, we see that in the small intestine, the chyme is divided into two parts: the one which attaches itself to the sides, and which is the chyle still impure; the other the true refuse, which is destined to be thrown into the large intestine, and afterward entirely carried out of the body.

The manner in which drinks accumulate in the stomach differs little from that of the aliments; it is genemach differs inthe from that of the adminest, his generally quicker, more equal, and more easy; probably because the liquids spread, and distend the stomach more uniformly. In the same manner as the food, they occupy more particularly its left and middle portion; the pyloric, or right extremity, contains always much less

much less.

The distention of the stomach must not, however, be carried to a great degree, for the liquid would be expelled by vomiting. This frequently happens to persons that swallow a great quantity of drink quickly. When we wish to excite vomiting in persons who have taken an emetic, one of the best means is to make them drink a number of glasses of liquid quickly.

The presence of drinks in the storageh produces.

The presence of drinks in the stomach produces local phenomena like those which take place from the accumulation of the aliments; the same changes in the form and position of the organ, the same distention of the abdomen, the same contraction of the pylorus and

the asonner, the same contraction of the pyrotas and the asonneys, &c.

The general phenomena are different from those produced by the aliments: this depends on the action of the liquids upon the sides of the stomach, and the quickness with which they are carried into the

blood.
Potations, in passing rapidly through the mouth and the cosphagus, preserve more than the food their proper temperature until they arrive in the stomach. We therefore prefer them to those, when we wish to experience in this organ a feeling of heat or of cold hence arises the preference that we give to hot drinks in winter, and cold drinks in summer.

Every one knows that the drinks remain a much better time in the stomach than the eliments. But the

shorter time in the stomach than the aliments; but the shorter time in the stomach than the aliments; but the manner of their passage out of this viscus is still very little known. It is generally supposed that they traverse the pylorus and pass into the small intestine, where they are absorbed with the chyle; nevertheless a ligature applied round the pylorus in such a manner as to hinder it from penetrating into the duodenum, and the pylorus in such a manner as to hinder it from penetrating into the duodenum, does not much retard its disappearance from the cavity of the stomach.

of the stomach.—Fluids, in the stomach.—Fluids, in respect of the alterations that they prove in the stomach, may be divided into two classes: the one sort do not form any chyme, and the other are chymifed

wholly or in part.

To the first class belong pure water, alkohol, sufficiently weak to be considered as a drink, the vegetable acids. &c. During its stay in the stomach ciefly weak to be collected as a time, and expendence acids, &c. During its stay in the stomach, water assumes an equilibrium of temperature with the sides of this viscus: it mixes at the same time with mucus, the gastric juice, and the salwa which are found in it; the gastric lines, and the saliva which are found in it; it becomes muddy, and afterward disappears slowly without suffering any other transformation. One part passes into the small intestine; the other appears to be directly absorbed. There remains after its disappearance a certain quantity of mucus, which is very soon reduced to chyme like the aliments. By observation we know that water deprived of atmospheric air, as distilled water, or water charged with a great quantity

Alkohol acts quite in a different manner. We know the impression of burning heat that it causes at first in the impression of burning heat that it causes at the cos-its passage through the mouth, the pharynx, the oso-phagus; and that which it excites when it enters the stomach: the effects of this action determine the con-traction of this organ, irritate the mucous membrane, and augment the secretion of which it is the seat; it congulates at the same time all the albuminous parts with which it is in contact; and as the different liquids in the stomach contain a considerable proportion of this matter, it happens that a short time after alkohol has been swallowed, there is in this viscus a certain quantity of concrete albumen. The mucus undergoes a modification analogous to that of the albumen; it becomes hard, forms irregular elastic filaments, which

preserve a certain transparency.

In producing these phenomena, the alkohol mixes with the water that the saliva and the gastric juice contain; probably it dissolves a part of the elements that enter into their composition, so that it ought to be much weakened by its stay in the stomach. It disappears very quickly; its general effects are also very rapid, and drunkenness or death follow almost immediately the introduction of too great a quantity of alko-

hol into the stomach.

The matters coagulated by the action of the alkohol are, after its disappearance, digested like solid ali-

Among the drinks that are reduced to chyme, some

are reduced in part and some wholly.

Oil is in this last case; it is transformed, in the pyloric part, into a matter analogous in appearance with that which is drawn from the purification of oils by sulphuric acid; this matter is evidently the chyme of oil. On account of this transformation, oil is per-haps the liquid that remains longest in the stomach.

Every one knows that milk curdles soon after it is swallowed; this curd then becomes a solid aliment, which is digested in the ordinary manner. Whey only

can be considered as drink

The greatest number of drinks that we use are formed of water, or of alkohol, in which are in suspension or dissolution, immediate animal or vegetable principles, such as gelatine, albumen, osmazome, sugar, gum, fecula, colouring or astringent matters, &c.

These drinks contain salts of lime, of soda, of po-

tassa, &c.

The result of several experiments that have been made upon animals, and some observations that have been made on man, is, that there is a separation of the were made of man, is, that there is a separation of the water and the alkohol in the stomach from the matters that these liquids hold in suspension or solution. These matters remain in the stomach, where they are transformed into chyme, like the aliments; while the liquids with which they were united are absorbed, or pass into the small intestine; lastly, they are conducted, as we have just now seen, in treating of water and

Salts that are in solution in water do not abandon sate that are in solution in water do not acaton this liquid, and are absorbed with it. Red wine, for example, becomes muddy at first by its mixture with juices that are formed in, or carried into the stomach; it very soon coagulates the abunnen of these fluids, and becomes flaky; afterward, its colouring matter, carried perhaps by the mucus and the abunnen, is deposited upon the mucous membrane: there is a cer-tain quantity of it seen at least in the pyloric porthe watery and alkoholic parts disappear with rapidity.

The broth of meat undergoes the same changes.

The water that it contains is absorbed; the gelatine, the albumen, the fat, and probably the osmazome, remain in the stomach, where they are reduced into

chyme.

Action of the small intestine upon drimks.—After what has been read, it is clear that fluids penetrate, under two forms, into the small intestine: 1st, under that of liquid; 2dly, under that of chyme.

The liquids that pass from the stomach into the intestine remain but a short time, except under particular circumstances; they do not appear to undergo any other alteration than their mixture with the intestinal juice, the chyme, the pancreatic liquid, and the luke: juice, the dryne, the pancreatic liquid, and the bile; they do not form any sort of chyle; they are generally that been supposed to be the best form of administering absorbed in the duodenum, and the commencement of digitals, when the remedy is designed to act as a nar-

of salts, as well-water, remain long in the stomach and produce a feeling of weight.

Alkohol acts quite in a different manner. We know this last case does not happen except in the state of sickness; for example, during the action of a pur-

The chyme that proceeds from drinks follows the

The Chyme that proceeds from drinks follows too same rule, and appears to undergo the same changes as that of the food; it therefore produces chyle.

Such are the principal phenomena of the digestion of drinks: we see how necessary it was to distinguish them from those that belong to the digestion of the alignment.

But we do not always digest the aliments and the drinks separately, as we have supposed; very frequently the two digestions take place at the same

Drink favours the digestion of the aliments: effect is probably produced in various manners. Those that are watery, soften, divide, dissolve even certain foods; they aid in this manner their chymification and

their passage through the pylorus.

Wine fulfils analogous uses, but only for the substances that it is capable of dissolving; besides, it excites by its contact the mucous membrane of the stomach, and causes a greater secretion of the gastric juice. Alkohol acts much in the same manner as wine, only it is more intense. It is thus that those liquors which are used after meals, are useful in exciting the action of the stomach."—Magendie's Physical Company.

DIGESTIVE. Digestivus; from digero, to dissolve.) A term applied by surgeons to those substances which, when applied to an ulcer or wound, promote suppuration: such are the ceratum resina,

unguentum elemi, warm poultices, fornentations, &c Digestive salt. The muriate of potassa. Digestive salt of Sylvius. The muriate of po

DIGUSTI'VUM SAL. See Potassæ murias.
DIGITA'LIS. (From digitus, a finger; because its flower represents a finger.)

1. The name of a genus of plants in the Linnman system. Class, Didynamia; Order, Angiospermia, Fox-glove.

2. The pharmacopoial name of the common fox-glove. See Digitalis purpurea.

DIGITALIS PURPUREA. The systematic name of the

DIGITALIS PURPITEA. The systematic name of the fox glove. Digitalis—calgenis foliolis ocatis acattis, corollis obtais, lubio superiore integro, of Linnaeus. The leaves of this plant have a hitter nauseous hope four nauts. The leaves of this plant have a bitter nauseous taste, but no remarkable smell; they have been long used externally to ulcers and scrofulous tumous with considerable advantage. When properly dried, their colour is a lively green. They ought to be collected when the plant begins to blossom, to be dried quickly before the fire, and preserved unpowdered.

Of all the narcotics, digitalis is that which dimi-

nishes most powerfully the actions of the system; and it does so without occasioning any previous excitement. Even in the most moderate dose, it diminishes the force and frequency of the pulse, and, in a large dose, reduces it to a great extent, as from 70 beats to 40 or 35 in a minute, occasioning, at the same time, vertice, indistinct vision, violent and durable sickness, with vomiting. In a still larger quantity, it induces convulsions, coldness of the body, and insensibility; symptoms which have sometimes terminated fatally. symptoms which have sometimes terminated fatally. As a narcotic, fox-glove has been recommended in cpilepsy, insanity, and in-some acute inflammatory diseases. Lately it has been very extensively employed in phthisis, and the beneficial effects which it produces in that disease, are probably owing to its narcotic power, by which it reduces the force of the circulation the path the production that the production of the circulation that the path the interest and provided according to the production of the circulation that the path the interest and provided according to the production of the path the path the production of the path the path the production of the path the p culation through the lungs and general system.
administered so as to produce this effect. One administered so as to produce this effect. One grain of the powdered leaves, or ten drops of the saurated incture, may be given night and morning. This dose is increased one-half every second day, till its action on the system becomes apparent. As soon as the pulse begins to be diminished, the increase of dose must be made with more caution; and, whenever nausea is induced, it ought rather to be reduced, or, if necessary, intermitted for a sport time. If the sickness become induced, it ought radius, intermitted for a short time. If the sickness become urgent, it is best relieved by stimulants, particularly large doses of brandy, with aromatics. The tincture large doses of brandy, with aromatics. The tincture has been supposed to be the best form of administering

cotic: it is also more manageable in its dose, and more uniform in its strength, than the dried leaves.
Besides its narcotic effects, digitalis acts as one of

Besides its narcotic effects, digitalis acts as one of the most certain diureties in dropsy, apparently iroming is power of promoting absorption. It has frequently succeeded where the other diureties have failed. Dr. Withering has an undoubted claim to this discovery; and the numerous cases of dropsy related by him, and other practitioners of established reputation, afford incontestable evidence of its diuretic powers, and of its practical importance in the cure of those disorders. From Dr. Withering's extensive experience of the use of the digitalis in dropsies, he has been able to judge of its success by the following circumstances;—"It self-don succeeds in men of great natural strength, of Its success by the following circumstances;—"If sel-dom succeeds in men of great natural strength, of tense fibre, of warm skin, of florid complexion, or in those with a tight and cordy pulse. If the belly in ascites be tense, hard, and circumscribed, or the limbs in anasarca solid and resisting, we have but little hope. On the contrary, if the pulse be feele, or intermitting, the countenance pale, the tips livid, the skin cold, the awollen belly soft and fluctuating, the anasarcous limbs readily pitting under the pressure of the finger, we may expect the directive effects to fullow in a kindly. limbs readily pitting under the pressure of the finger, we may expect the finretic effects to follow in a kindly manner." Of the inferences which he deduces, the fourth is, "that if it (digitalis) fails, there is but little chance of any other medicine succeeding." Although the digitalis is now generally admitted to be a very powerful diaretic, yet it is but justice to acknowledge that this medicine has more frequently failed than could have been reasonably expected, from a comparison of the facts stated by Dr. Withering. The dose of the dried leaves in powder is from one to three grains, twice a day. But if a liquid medicine be preferred, a drachm of the dried leaves is to be infused for four hours, in half a pint of boiling water, adding to the strained liquor an ounce of any spirituous water. One strained liquor an ounce of any spirituous water. One ounce of this infusion, given twice a day, is a medium dose. It is to be continued in these doses till it either acts upon the kidneys, the stomach, the pulse (which, as has been said, it has a remarkable power of lowering.) or the bowels.

The administration of this remedy requires to be

The administration of this remedy requires to be conducted with much caution. Its effects do not immediately appear; and when the doses are too frequent, or too quickly augmented, its action is concentrated so as to produce frequently the most violent symptoms. The general rules are, to begin with a small dose, to increase it gradually, till the action is apparent on the kidneys, stomach, intestines, or vascular system; and immediately suspending its exhibition when its effects on any of these parts take tion, when its effects on any of these parts take

The symptoms arising from too large a dose of digi-The symptoms arising from too large a dose of agratalis are, extreme sickness, vertigo, indistinct vision, incessant vomiting, and a great reduction of the force of the cfroulation, terminating sometimes in syncope, or convulsions. They are relieved by frequent and amail doses of opium, brandy, aromatics, and strong bitters, and by a blister applied to the region of the

DIGITATUS. Digitate or fingered. A leaf is called folium digitalum, when several leaflets proceed from the summit of a common footstalk, as in Potentilla norma; and reptans.

DIGITIPORMIS. Finger-like. Applied to the receptacle of the Arum maculatum, and Calla athio-

Digitum. (From digitus, a finger.)

1. A contraction of the finger-joint.

2. A whittow, or other sore upon the finger.
Digitus. (From digero, to direct.) A finger.
Digitus manus is the finger, properly so called; and

digitus pedies, the toe.

Diotrus manus. A finger. The fingers and thumb in each hand consist of fourteen bones, there being three to each finger, and two to the thumb; they are a little convex and round towards the back of the hand. nute convex and round towards the back of the fland, but hollow and plain towards the palm, except the last, where the nails are. The order of their disposition is called first, second, and third phalanz. The first is longer than the second, and the second longer than the third. What has been said of the fingers, applies to the toes also.

less leaf, like two tongues.) 1. The Laurus alexan-

2. Galen makes mention of a man born with two DIGNO'TIO. (From dignosco, to distinguish.) See

Dieno'tto. (From dignosco, to distinguish.) See Diagnoscis.

DiGY'NIA. (From dig, twice, and yunn, a woman.) The name of an order of several classes of the sexual system of plants, embracing those plants which to the character of the class, whatever it may be, add the circumstance of having two styles.

Dimz'naton. (From dia and aiga, blood.) An antidote in which is the blood of many animals.

Dima'ton. (From dia and alga, salt.) A plaster prepared with salt and nitre, adapted to foul ulcers.

Diffyress. (From Zey, dios heaven, and staffe, to fall: i. e. falling as rain.) An epithet applied by Hippocrates to semen, when it is discharged like a shower of rain.

bluara'Tio. (From dilato, to enlarge.)

1. Dilatation, or enlargement.
2. The diastole of the heart.
DILATOR. (From dilate, to enlarge.) The name of some muscles, the office of which is to open and

enlarge parts.

enlarge parts.

DILATO'RIUM (From dilate, to enlarge.) Assurable instrument for enlarging any part.

DILUENT. (Diluens; from dilue, to wash away.)

Those substances which increase the proportion of fluid in the blood. It is evident that this must be done by watery liquors. Water is, indeed, properly speaking, the only diluent. Various additions are made to it, to render it pleasant, and frequently to give it a slightly denulcent quality. But these are not suffi-ciently important to require to be noticed, or to be classed as medicines.

Diluents are merely secondary remedies. They are given in acute inflammatory diseases, to lessen the sti-mulant quality of the blood. They are used to promote the action of diuretics in dropsy, and to favour the operation of sweating.

DI'NICA. (From devos, giddiness.) Medicines which relieve a giddiness.

Di'nos. See Dinus.
Di'Nos. See Dinus.
Di'NUS. (From õrvea, to turn round.) Dinos.
Dizziness. The name of a genus of disease in Good's
Nosology. Class, Neurotica; Order, Systatica. Is
has only one species. Dinus vertige. Vertigo, or giddiness

Dro'cres. The name of a lozenge.
Dropos. (From δια, and οδος, the way through). Di'opos.

Di o nos. (From δια, and ο ο ο ο, une way through.) Evacuation by stool.

DIŒ'CIA. (From δις, double, and οικια, a house.) The name of a class of plants in the sexual system of Linnæus, containing such as have barren, or male, flowers on one individual, and fertile, or female, ones

nowers on one mativatual, and terms, or tentate, ones on another of the same species.

Digna'nthes. (From  $\delta_{id}$ , and  $\delta_{il} w u \theta \eta$ , the flower of the vine.) A remedy said to be good for cholera, in which was the flower of the vine-tree.

ni which was the nower of the vine-tree.

DIO GMUS. (From διωκω, to persecute.) A distressing palpitation of the heart.

DIOI CUS. (From δις, double, and σικια, a house.)

Dioecious. Plants and flowers are so called when the barren and fertile flowers grow from two separate

DIONIS, PETER, was born about the middle of the DIONIS, PETER, was norn about the missie of the 17th century, and educated to the practice of surgery. He was appointed to read the lectures in anatomy, &c. in the royal gardens at Paris, instituted by Lewis XIV., and after this, surgeon to the queen, and other branches of the royal family, which offices he held, with great credit, till his death, in 1718. His first publication area a account of a remain who died in the with great credit, till his death, in 1718. His first publication gave an account of a woman who died in the sixth month of pregnancy; of what he considered to be a ruptured uterus; but as he states that there were two uteri, it is suspected that the ruptured part was one of the Faliopian tubes much enlarged. He afterward gave a useful epitome of anatomy, which was very favourably received, passed through several editions, and was even translated into the Tartar language, by order of the emperor of China. His next work, a course of surgical operations, obtained still more celebrity, which it even now in some degree retains, especially as commented upon by Hoister. Besides these DIGITUS PEDIS. A toe. See Digitus Manus.
DIGLO SSUM. (From δις, double, and γλωσσα, a longue: so called because above its leaf there grows a 390.

wifery, were published by this author

wifery, were published by this author.

Dionyst'scus. (From Διουνσος, Bacchus, who was of old represented as having horns.) Certain hony excrescences, near the temples, were called dionysisci. Dionyson' MPHAS. (From Διουνσος, Bacchus, and νυμφα, a nymph.) An herb which, if bruised, smells of wine, and yet resists drunkenness.

Diopo' Rum. (From δα, and σπωρα, autumnal fruits.) A medicine composed of ripe fruits for quinsy.

DIOPSIDE. A subspecies of oblique-edged augite, found near Piedmont.

DIOPTASE. Emerald, copper ore.

DIOPTASE. Emerald, copper ore.

DIOPTRIOS. (Prom διοπ'Ιομαί, to see through.) Dioptron. 1. Speculum ani, oris, or uteri.

2. The lapis specularis.

DIOPTRIOS. (Dioptricus; from διοπ'Ιομαί, to see through.) The doctrine of the refraction of light.

DIOPTRI SMUS. (From διοπ'Ιομαί, to see through.)

Dioprafisation of any natural passage.

Dio and opology a vector of a vector

Diorrais. (From δια, and ορρος, the serum.)

Diorrais. 1. A dissolved state of the blood.

2. A conversion of the humours into serum and

water.

(From διορθροω, to direct.) The DIORTHRO'SIS. reduction of a fracture.

reduction of a fracture.

DIOSCO'REA. (Named in honour of Dioscorides.) The name of a genus of plants in the Linnæan system. Class, Dioscorea alara. The name of the plant which affords the esculent root, called the yam. It is obtained, however, from three species; the data, bulbifera, and sativa. They grow spontaneously in both Indies, and their roots are promiscuously eaten, as the potato is with us. There is great variety in the colour, size, and shape of yams; some are generally blue or brown, round or oblong, and weigh from one pound to two. They are esteemed, when dressed, as being nutritious and easy of digestion, and are preferred to wheaten bread. Their taste is somewhat like the potato, but more luscious. The negroes, whose common food is yams, boil and mash them. They are also ground and made into bread and puddings.

yams, boil and mash them. They are also ground and made into bread and puddings.

When they are to be kept for some time, they are exposed upon the ground to the sun, as we do onions, and when sufficiently withered, they are put into dry saind in casks, and placed in a dry garret, where they remain often for many seasons without losing any of

Prenam offen for many seasons wantout losing any of their primitive goodness.

Ploscorra bulbifera. See Dioscorea alata.

Dioscorra battva. See Dioscorea alata.

DiOSCORITDES, Prdacius, or Pedanius, a celebrated Greek physician and botanist of Anazarba, in Click, park Carparana, who is sungood to be a loss of the control of the contro brated Greek physician and botanist of Anazarba, in Cilicia, now Caramania, who is supposed to have lived in the time of Nero. He is said to have been originally a soldier, but soon became eminent as a physician, and travelled much to improve his knowledge. He paid particular attention to the materia medica, and especially to botany, as subservient to medicine. He profited much by the writings of Theophrastus, who appears to have been a more philosophical botanist. Dioscorides has left a treatise on the materia medica, in five books, chiefly considering plants; also two books on the composition and application of medicines, an essay on antidotes, and another on vemedicines, an essay on antidotes, and another on ve-nomous animals. His works have been often printed in modern times, and commented upon, especially by Matthiolus. He notices about 600 plants, but his descriptions are often so slight and superficial, as to leave their identity a matter of conjecture; which is perhaps of no very great medical importance; though their virtues being generally handed down from the Greeks, it might be upful to a greatein which magning the state of the profit of the state of the it might be useful to ascertain which particular plants

Dissective. (i.e. \( \Delta\_{\text{os}}\), Kovoot, the sons of Jupiter, or Castor and Pollux.) The parotid glands were so named from their twin-like equality in shape and polition.

The persimmon. The persimmon-tree is very common in the middle and western states, and grows also in the southern parts of our country. The bark is bitter, and has been added to our numerous list of native tonics. It is recommended in intermitients and ulcerated sore throats, and may be exhibited \$\text{U}\$?

a dissertation on sudden death, and a treatise on mid- f in the same manner as cinchona."-Bigelow's Mos.

DIOSPY ROS LOTUS. The Indian date plum. The fruit, when ripe, has an agreeable taste, and is very

nutritions.

Droxel.π'um. (From ε̄sa, οξυς, acid, and ελαιου, oil.) A medicine composed of oil and vinegar Dro'xos. (From ε̄sa, and οξυς, acid.) A collyrium composed chiefly of vinegar.

DIPHYLLUS. (From ε̄sa, double, and φυλλου, a leat.) Diphyllous, or two-leaved. Applied to the perianthium of flowers, when there are two calyces; as in Panagare rhaps. as in Papaver rhaas.

DIPLASIA'SMUS. (From re-exacerbation of a disease. (From διπλοω, to double.) The

re-exacerbation of a disease.

Di PLOE. (From διπλοω, to double.) The spongy substance between the two tables of the skull.

DIPLOPIA. (From διπλοος, double, and οπτομαί, to sec.) Visus duplicatus. A disease of the eye, in which the person sees an object double or triple. Dr. Cullen makes it a variety of the second species of pseudoblepsis, which he calls mutans, in which objects appear changed from what they really are; and the disease varies according to the variety of the second species. jects appear changed from what they really are, the disease varies according to the variety of the remote causes.

Di'PNOOS. (From  $\delta_{i\xi}$ , twice, and  $\pi\nu\epsilon\omega$ , to breathe.) A wound which is perforated quite through, and admits the air at both ends.

Inits the art at both either.

Dipple's animal oil. See Animal oil.

DIPSACUS. (From boba, thirst; so called from the concave situation of its leaves, which hold water, by which the thirst of the traveller may be relieved.)

Dipsacum.

1. The name of a genus of plants in the Linnæan system. Class, Syngenesia; Order, Polygamia. The

teasel.

2. A diabetes, from the continual thirst attend-

In the property of the proper has two species, Dipsosis avens, and Dipsosis expers.
DIPYRE. Schnelstein. A mineral found in white
or reddish steatite in the Western Pyrenees, composed

or reddish steatite in the Western Pyrenees, composed of silica, alumina, and lime.

DIPYRE'NUM. (From δις, twice, and πυρην, a ber II). A berry, or kernel.

2. A probe with two buttons.

DIPYRI'NES. (From δις, twice, and πυρ, fire.) Dipyros. An epithet given by Hippocrates to bread twice baked, and which he recommended in dropsies.

DIRECTOR. (From dirigo, to direct.).

1. A hollow instrument for guiding an incisor-

knife.
2. The name of a muscle.
(From DIRECTOR PENIS. (From dirigo, to direct.) The

Dirki Noa. A name, in the isle of Java, for the Calamus aromaticus. See Acorus calamus. Disos'ssus. (From discedo, to depart.) The separation of any two bodies, before united, by chemical operation

operation.

DISCIFO'RMIS. (From discuss, a quoit, and forma, likeness.) Resembling a disk, or quoit, in shape. It is applied to the knee-pan.

DISCOIDES. (From discuss, a quoit, and tidos, resemblance) Resembling a disk, or quoit, in shape, the distribution of the control of

It is applied to the crystalline humour of the eye

DISCRI'MEN. 1. A small roller. 2. The diaphragm.

2. The diaphragm. DISCUS. (From δισκος, a quoit and disk, and from its flat and round appearance like the circumference of the sun.) The disk, or central part of a leaf, and of a compound flower. In the common daisy, the white leaflets of the flower surround the disk.

The disk of a leaf is the whole flat surface within

another disease, it is termied idiopathic, which may be cither general or partial, to distinguish it from a symptomatic one, which depends upon another disease. See Distortor oris.

tomate one; when depends upon another unsease. See also Endemic, Epidemic, Sporadic, &cc. [DISINTEGRATION. This is a geological term, and means the crumbling down of rock by their de-composition, and the consequent formation of alluvial

colinposition, and the consequence of a color of a colo

DISPE'NSARY. (Dispensarium; from dispendo, to distribute.) 1. The shop or place in which medicines are prepared.

The name of an institution, in which the poor are supplied with medicines and advice.

2. The name of an institution, in which the poor are supplied with medicines and advice.

DISPE'NSATORY. (Dispensatorium; from dispendo, to distribute.) Antidotarium. A book which treats of the composition of medicines.

DISSE'CTION (Dissectio; from disseco, to cut assunder.) The cutting to pieces of any part of an animal, or vegetable, for the purpose of examining its structure. See Anatomy.

DISSECTUS. Cut. A term used by botanists synonymously with invesed and lacinized, to leaves which are cut, as it were, into numerous irregular portions. See Leaf.

DISSEPIMENTUM. (From dissepio, to separate.) A partition. Applied by botanists to partitions which separate the cells of a capsule. See Capsula.

DISSEPIMENTUM. (From dissepio, to enclose round.) The diapiragm, or membrane, which divides the cavity of the thorax from the abdomen.

DISSOLY'NTA. (From dissebovo, to loosen.)

1. Medicines which loosen and dissolve morbid concretions in the body.

2. In chemistry, it means menstrua.

DISSOLY'TTS. (From dissebovo, to loosen.) Loose, morbus dissolutus. An epithet applied to dysentery.

DISTANS. Distant. Applied to petals from their direction; as in Cacubalus baceoferus.

DISTE'NTO. (From dissebovo, to loosen.) 1. Distention, or dilatation.

2. A convulsion.

DISTHENE. See Cyanite.

Distriction, or anitation.

2. A convulsion.

DISTHENE. See Cyanite.
DISTICHIASIS. (From districtions):
DISTICHIASIS. (From districtions):
Distriction.

Distriction.

Distriction.

Distriction.

Distriction.

Distriction.

of hairs, the one row growing outwards, the other inwards towards the cye.

DISTICHUS. Two-ranked. Applied to stems, leaves, &c. when they spread in two horizontal directions; as the branches of the Pinus picea, or silver fur, and the leaves of the Tazus baccata, or yew.

DISTICHATION. (Distillatio; from distillo, to drop little by little.) Alsacta; Catastagmos. A chemical process, very similar to evaporation, instituted to separate the volutile from the fixed principles, by means of heat. Distillatory vessels are cither alembics or retorts; the former consist of an inferior vessel railed a cannot designed to contain the matter to seel called a caucibit designed to contain the matter to be examined, and having an upper part fixed to it, called the capital, or head. In this last, the vapours are condensed by the contact of the surrounding air, or, in other cases, by the assistance of cold water surrounding the head, and contained in a vessel called the refrigeratory. From the lower part of the capital proceeds a tube called the nose, beak, or spout, through which the vapours, after condensation, are, by a proper figure of the capital, made to flow into a vessel called the receiver, which is usually spherical. These receivers have different names, according to their figure, being called mattresses, balloons, &c. Retorts are a kind of bottle of glass, pottery, or metal, the bottom being spherical, and the upper part gradually diminishing into a neck, which is turned on one side.

DISTORTION. (Distortic; from distorqueo, to wrest aside.) A term applied to the eyes, when a person seems to turn them from the object he would look at, and is then called squinting, or strabismus. sel called a cucurbit designed to contain the matter to

son seems to turn them from the object he would at, and is then called squinting, or strabismus. It also signifies the bending of a bone preternaturally to one side; as distortion of the spine, or vertebræ.

DISTORTOR. (From distorquee, to wrest aside.)

DISTORTOR ORIS. See Zygomaticus minor.
DISTRICHIASIS. See Districtiasis.
DISTRIX. (From de, double, and the disease of the hair, when it splits and divides at the

DITTANDER. See Lepidium sattvum.

DITTANDER. See Lepidium sativum.
DITTANY. See Dictamnus.
Dittany, bastard. See Dictamnus albus.
Dittany of Crete. See Origanum dictamnus.
Dittany ohite. See Dictamnus albus.
DIURE'SIS. (From δια, through, and ουρεω, to make water.) An increased secretion of urine. It is also applied to a diabetes.
DIURETIC. (Diurcticus. Διουρητικος; from διουρητικος is discharge of urine.) That which, when taken internally, augments the flow of urine from the kidneys. It is obvious that such an effect will be produced by any substance canable of stimulating the secreting neys It is obvious that such an effect will be produced by any substance capable of stimulating the secreting vessels of the kidneys. All the saline diuretics seem to act in this manner. They are received into the cir-culation; and passing off with the urine, stimulate the vessels, and increase the quantity secreted. There are other diuretics, the effect of which ap-pears not to arise from direct application, but from an action excited in the stomach, and propagated by nervous communication to the secreting urinary vessels.

The diuretic operation of squill, and other vegeta-bles, appears to be of this kind.

bles, appears to be of this kind.

There is still, perhaps, another mode in which certain substances produce a diuretic effect; that is, by promoting absorption. When a large quantity of watery fluid is introduced into the circulating mass, it stimulates the secreting vessels of the kidneys, and is carried off by urine. If, therefore, absorption be promoted, and if a portion of serous fluid, perhaps previously effused, be taken up, the quantity of fluid secreted by the kidneys will be increased. In this way digitalis seems to act: its diuretic effect, it has been said, is greater when exhibited in drousy than it is in greater. is greater when exhibited in dropsy than it is in

On the same principle (the effect arising from stimulating the absorbent system) may probably be explained the utility of mercury in promoting the action of seve-

ral diuretics.

ral diureties.

The action of these remedies is promoted by drinking freely of mild diluents. It is also influenced by the state of the surface of the body. If external heat be applied, diuresis is frequently prevented, and diaphoresis produced. Hence the doses of them should be given in the course of the day, and the patient, if possible, be kept out of bed.

The direct effects of diuretics are sufficiently evident. They discharge the watery part of the blood; and, by that discharge, they indirectly promote absorption over the whole system.

Dropsy is the disease in which they are principally

sorption over the whole system.
Dropsy is the disease in which they are principally employed; and when they can be brought to act, the disease is removed with less injury to the patient than it can be by exciting any other evacuation. Their success is very precarious, the most powerful often failing; and, as the disease is so frequently connected with organic affection, even the removal of the effused fluid, when it takes place, only palliates without effecting a cure. ing a cure.

have been likewise occasionally used in

Diuretics have been likewise occasionally used in calculous affections, in gonorrhea, and with a view of diminishing plethora, or checking profuse perspiration.

Murray, in his Elements of Materia Medica, classes the supertartate of potassa, or recean of tariar, and nitrate of potassa, or nitre, the muriate of ammonia, or crude sal ammoniae, potassa, and the acetate of potassa, or kali acetatum, among the valine diuretics; and selects the following from the vagetable kingdom:—scilla maritima, digitalis purpurea, nicotiana tabacum, solanum dulcamara, lactuca virosa, colchicum autumnale, gratiola officinalis, spartium scoparium, juniperis communis, copaifera officinalis, phrus balsamea, and pinus larix; and the lytta vesicatoria from the animal kingdom.

In speaking of particular diuretics. Dr. Culler same.

the animal Kingdom.

In speaking of particular diuretics, Dr. Cullen says, the diuretic vegetables, mentioned by writers, are of very little power, and are employed with very little success. Of the umbellate, the medicinal power resides especially in their seeds; but he never found any

of them very efficacious. The semen dauci sylvestris of them very cincations. The semen dauci sylvestris has been commended as a diurctic; but its powers as such are not very remarkable. In like manner, some of the plantas stellatas have been commended as diurctic; but none of them deserve our notice, except the rubia tinctorium, the root of which passes so much by the kidneys as to give its colour to the urine. Hence it may fairly be supposed to stimulate the secretories; but Dr. Cullen found its diurctic powers did not always appear, and never to any considerable described. not always appear, and never to any considerable de gree; and as, in brute animals, it has always appeared hurtful to the system, he does not think it fit to be employed to any extent in human diseases. The barphoyeu to any extent in numan diseases. The par-dama, lithospermum, ononis, asparagus, enula campa-na, are all substances which seem to pass, in some measure, by the kidneys; but their diuretic powers are hardly worth notice.

The principal articles included by Dr. Cullen, in his catalogue of diuretics, are dulcamara, digitalis, scilla;

catalogue of attresses, are untermara, ingitains, seina; some of the alliaceæ and siliquosæ; the balsams and resins; cântharides, and the diuretic salts.

Divapora/Tio. Evaporation.

DivARICATION. The crossing of any two things: thus when the muscular or tendinous fibres intersect the salt of the company each other at different angles, they are said to divaricate.

Divellent affinity. See Affinity quiescent.
Diverso'Rium. (From diversor, to resort to.) The

receptaculum chyli.

DIVERTICULUM. A mal-formation or diseased appearance of a part, in which a portion goes out of the regular course; and thereby forms a diverticulum, or deviation from the usual course. It is generally

or deviation from the usual course. It is generally applied to the alimentary canal.

Diverticulum nuckit. The opening through which the round ligaments of the uterus pass. Nuck asserted that it remained open a long time after birth; to these openings he gave the name of diverticula.

DIVINUS. A pompous epithet of many compositions, from their supposed excellence.

Divertical From directly to null secundary. Using

Divu'LSIO. (From divello, to pull asunder.) Urine with uneven sediment.

DOCIMASTIC. Ars docimastica. The art of examining fossils, in order to discover what metals, &c. they contain.

DOCK. See Rumex

Dock-cresses. See Lapsana. Dock, sour. See Rumex acetosa.

Dock, sour. See Kumez acetosa.

Dock, water. See Rumez hydrolapathum.

DODECAD CTYLUS. (From oddera, twelve, and carfolog, a finger; so named because its length is about the breadth of twelve fingers.) The duodenum, an intestine so called. It must be observed, that at the time this name was given, anatomy consisted in the dissection of brutes; and the length was therefore probably adjudged from the gut of some animal, and

DODECA'NDRIA. (From  $\delta\omega\delta\epsilon\kappa a$ , twelve, and  $\alpha\nu\eta\rho$ , a man.) The name of a class of plants in the sexual system, embracing those with hermaphrodite

flowers, and twelve stamina.

DODECAPHA'RMACUM. (From δωδεκα, twelve, and φαρμακον, a medicine.) An ointment consisting of twelve ingredients, for which reason it was called the

Iwelve ingredients, for which reason it was called the ointment of the twelve apostles.

Dodga Theon. (From δωδεκα, twelve, and 7,6ημι, to put.) An antidote consisting of twelve simples.

DODONÆUS, REMBERTUS, or Dodga as born at Mechlin, in 1517. He became physician to two succeeding emperors, and, in 1582, was appointed professor of physic in the newly-founded University of Leyden, the duties of which he performed with credit, uil his death, three years after. His fame at present chiefly rests on his botanical publications, particularly his "Pemptades," or 30 books of the history of plants. The "Frugum Historia," "Herbarium Beiglcum," &c. are of much inferior merit.

DOG. See Canis.

Dog's-bane, Syrian. See Asclepias syriaca.

Dog's-bane, Syrian. See Asclepias syriac:
Dog's-sares. See Triticum repens.
Dog's-mercury. See Mercurialis perennis.
Dog-ross. See Rosa canina. See Asclepias syriaca.

Dogsstones. See Orchis muscula.
[Dogssood. See Cornus Florida. A.]
DO GMA. (From Sokes, to be of opinion.) A can, or opinion, founded on reason and experience. A dogDOLERFIE. When volcanic masses are composed of grains distinct from each other, and contain besides felspar, much pyroane, black oxide of iron, ampibole, &cc., they are called, by the French geologist,

DO'LICHOS. (From δολιχος, long: so called from its long shape.) 1. The name of a genus of plants in the Linnæan system. Class, Diadelphia; Order, De-

2. The pharmacopæial name of the cowhage. See

Dolichos pruriens

DOLICHOS PRURIENS. The systematic name of the cowhage. Dolichos; Dolichos-volubilis, leguminicownage. Dottehos: Dottehos—volubilis, legumine-bus racemosis, naloulis subcarinatis heritis, pradancu-lis termis, of Limmeus. The pods of this plant are co-vered with sharp hairs, which are the parts employed medicinally in form of electuary, as anthelimities. The manner in which these hairy spicula act, seems

The manner in which these hairy spicula act, seems to be purely mechanical: for neither the tincture, nor the docoction, possess the least antheliminic power.

Dolichos soul. The plant which affords the soy. It is much cultivated in Japan, where it is called decidsu: and where the pods supply their kitchens with various productions; but the two principal are, a sort of butter, termed miso, and a pickle called sooju.

DOLABRIFORMIS. (From dotabetta, a hatchet, and forma, resemblance.) Hatchet-shaped. A term applied to a leaf, which is compressed with a very prominent dilated keel, and a cylindrical base: as in

applied to a leat, which is compressed with a very prominent dilated keel, and a cylindrical base; as in Misembryanthemum dolabriforme.

DOLOMITE. A calcaree-magnesian carbonate.

DO'LOR. (Dolor, oris. f.) Pain.

DOLOR FACIEI. See Tic douloureux.

DORO'NICUM. (From dorongi, Arab.) Leopard's

See Arnica montana.

DORONICUM GERMANICUM. See Arnica montana.
DORONICUM ROMANUM. The pharmacopæial name
of the Roman leopard's bane. See Doronicum par-See Arnica montana. dalianches.

DORONICUM PARDALIANCHES. The systematic name of the Roman leopard's bane. Doronicum romanum; Doronicum—foliis cordatis, obtucis, denticulatis; ra dicalibus petiolatis; caulinis amplexicaulibus, of Linnæus. The root of this plant, if given in a full dose, possesses poisonous properties; but instances are related of its efficacy in epileptical and other necession. nervous diseases.

DO'RSAL. (Dorsalis; from dorsum, the back.)
Belonging to the back.
DORSALIS NERVUS. The nerve which passes out

Dorsalis Nervos. The nerve which passes out from the vertebre of the back. [DORSEY, John Stvo, M.D., Professor of anatomy in the university of Pennsylvania, was born in the city of Philadelphia, in December, 1783. In early life he received an excellent elementary and classical educareceived an exception telementary and classical cauca-tion at a school in Philadelphia, of the society of Friends, then in high repute, and here manifested the same vivacity of genius and quickness in learning, with the mild and gracious dispositions, for which he was subsequently so conspicuous. At the age of 15 years, he entered the office of his relation, the celebrated Dr. Physick

Not long after receiving his degree, the yellow fever reappeared in the city, and prevailed so widely that an hospital was opened for the accommodation exclusively of the sick with this disease, to which he was appointed resident physician. So great was the value attached to his services, that it is difficult to speak too highly of the manner in which he discharged the duties of his office of hazardous benevolence. close of the same season, he proceeded to Europe, for the purpose of improving his medical knowledge. In December, 1804, he returned home, and immediately entered on the practice of his profession. The reputation he brought with him, his amiable temper, and popular manners, his fidelity and attention, speedily introduced him into a large share of business. From this period professional honours were heaped on him his period professional honours were heaped on him with profusion. He was appointed surgeon to the dispensary, the alms-house, and hospitals, and in all our medical associations he held some elevated office. But there was reserved for him a still higher and more dignified station. In 1807 he was elected adjunct professor of surgery, in which office he continued till he was raised to the chair of anatomy, by the lamented death of the venerable Dr. Wistar.

"Considering himself now placed for the first time

in the proper sphere for the exercise of his talents and 1 in the proper spiner for the exercise of installents and the gratification of a generous ambition, the appointment gave him much delight; and with ample prepa-ration, he opened the session by one of the finest exhi-bitions of eloquence ever heard within the waits of the bittons of eloquence ever heard within the walls of the college. But here his bright and prosperous career ended, and the expectations of success thus created were not permitted to be realized. Elevated to a position above which he could hardly ascend, and surrounded by all that we most value, Providence seems to have selected him as an instance toteach a substance of this providence of the shortness of life, the insignificance of things transitory, and the importance of that eternity which absorbs all being and all time. On the evening of the same day that he pronounced his introductory lecture, and while the praises of it still resounded, he was attacked with a fever of such vehemence, that in one short week it closed his existance, leaving to us only his enviable name and inestimable example. He died in November, 1818, aged 35 years."—Thach.

only his enviable name and inestimable example. He died in November, 1818, aged 35 years."—Thack. Med. Biog. A. 1
DORSTE'NIA. (Named in honour of Dr. Dorsten.) The name of a genus of plants in the Linneau system. Class, Tetrandric; Order, Monogynia.

DORSTENIA BRAZILIENSIS. The root of this plant is used by the natives of Brazil, internally and extendible the property of the prop

ne same enects as specaculams. In wounds from poisoned darts are said to be cured with the juice of the root, which they pour into the wound.

DORSTENIA CONTRAYERVA. The systematic name of the plant which affords the contrayerva root; Contrayerva; Drakena; Cyperus longus, odorus, perua-nus; Bezoardica radix. The contrayerva root was first brought into Europe about the year 1581, by Sir first brought into Europe about the year 1581, by Sir Francis Drake, whence its name Drakena. It is the root of a small plant found in Peru, and other parts of the Spanish West Indies. Dr. Houston observes, that the roots of different species of dorstenia are promis-cuously gathered and exported for those of the contra-yerva, and, as all the species bear a great resemblance to each other, they are generally used for medical pur-poses in this country. The tuberous parts of these roots are the strongest, and should be chosen for use. They have an agreeable aromatic smell; a rough, bit-fer, penetrating taste; and, when chewed, they give

Tools are the strongest, and should be chosen for use. They have an agreeable aromatic smell; a rough, bitter, penetrating taste; and, when chewed, they give out a sweetish kind of acrimony.

It is diaphoretic and ,antiseptic; and was formerly used in low nervous fevers, and those of the malignant kind; but its use is superseded by the cinchona.

Dr. Cullen observes, that this and serpentaria are powerful stimulants; and both have been employed in fevers in which debility prevailed. However, he thinks, wine may always supersede the stimulant powers of these medicines; and that debility is better remedied by the tonic and antiseptic powers of cold and Peruyain bark, than by any stimulants.

By the assistance of heat, both spirit and water extract all its virtues; but they carry little' or nothing in distillation; extracts made by inspissating the decoction, retain all the virtues of the root.

The London College forms the compound powder of contrayerva, by combining five ounces of contrayerva root with a pound and a half of prepared shells. This powder was formerly made up in balls, and called lapis contrayerve, employed in the decline of ardent fevers, and through the whole course of low and nervous ones. The radix serpentariæ virginiensis, in all cases, may be substituted for the contrayerva.

Dorstenia dorstenia. See Dorstenia contra

sort of the contrayerva.

DORSTENIA HOUSTONII. See Dorstenia contra-

DO'THIEN. A name for the furunculus.

DO'THIEN. A name for the furunculus.

DOUGLAS, James, M. D. was born in Scotland in 1675. After completing his education, he came to London, and applied himself dligently to the study of nantomy and surgery, which he both taught and practised several years with success. Haller has spoken very highly of his preparations, to show the motion of the joints, and the structure of the bones. He patronised the celebrated William Hunter; who assisted him shortly before his death in 1742. He was reader of Anatomy to the Company of Surgeons, and a Fellow of the Royal Society, to which he made several communications. He published, in 1707, a more correct description of the muscles than had before appearation.

ed; eight years after, a tolerable account of preceding anatomical writers; in 1726, a History of the Interal Operation for the Stone; and in 1730, a very accurate Description of the Peritonsum, &cc.

DOUGLAS, JOHN, brother of the preceding, was surgeon to the Westminster Infirmary, and author of several controversial pieces. In one of them, culled "Remarks on a late pompous Work," he censures, with no small degree of severity, Cheselden's Anatomy of the Bones; in another, he criticises, with equal asperity, the works of Chamberlen and Chapman; and in a third, he decries the new forceps of Dr. Smellie. He also wrote a work on the high operation for the stone, which he practised; a Dissertation on the Venereal Discase; and an Account of the Efficacy of Bark in stopping Gangrene.

n stopping Gangrene.

DOVE'S FOOT. See Geranium rotundifolium.

Dover's powder. See Pulvis ipecacuanhæ compo-

Down of seed. See Pappus.

DRA'BA. (From δρασσω, to seize; so called from its sudden effect upon the nose of those who eat it.)

The name of a genus of plants in the Linnaean sys-tem. Class, Tetradynamic; Order, Siliculosa. Draba verna. A common plant on most walls. The seed is hot and stimulating, and might be used for

DRA'CO. (Draco, onis. m. Δρακων, the dragon.) The dragon.

The dragon.

DRACO MITIGATUS. The submuriate of mercury.

DRACO SYLVESTRIS. See Achillea Ptarmica.

DRACOCEPHALUM. (From δρακων, a dragon, and κφάλη, a head.) The name of 4 genus of plants in the Linnæan system. Class, Didynamia; Order,

Ogymospermic.

Dracocephalum canariense. The systematic name of the halm of Gilead. Turkey-balsam; Canary balsam; Balsam of Gilead. Moldavica; Melissa Turcica. Dracocephalum moldavica—forbus verticulatis, bracteis lanceolatis, serraturis capillaceis of Linneus. This plant affords a fragrant essential oil, in company by the name of Difficults. This plant allows a region tessential by distillation, known in Germany by the name of oleum syrie. The whole herb abounds with an aromatic smell, and an agreeable taste, joined with an aromatic flavour; it is recommended to give tone to the stomach and nervous system. DRACONIS SANGUIS. Dragon's blood. See Calamus

rotang.

DRACONTIA. The dracontia of the Greeks, according to Pliny, was the Guinea-worm, or dracunculus.

See Medinensis vena.

DRACONTIUM. (From δρακων, a dragon; so called because its roots resemble a dragon's tail.) See Arum

dracunculus. The skunk

Skunk Cabbage. cabbage is an indigenous plant, very common in wet meadows throughout the United States, and well known for its offensive odour, perfectly resembling that of the animal whose name it bears. Its odour resides in a volatile substance not easily obtained in a separate state, and soon dissipated by heat or by drying. It contains likewise an acrid principle like that the genus arum; also a portion of resin and mu.

"This plant in small doses is a stimulant and anti-"This plant in small doses is a stimulant and anti-spasmodic, and in large doses a narcotic. Thirty grains of the powdered root, if freshly prepared, will bring on vertigo, nausea, and frequently vomiting. Age and exposure, however, diminish its activity. In medicine this vegetable has been found of impor-tant use in certain forms of asthma, and in chronic catarrh, in which diseases it has succeeded, even when the cases had previously been of great obstinacy. It has also been recommended in rheumatism, in hysteria, and in drange. and in dropsy.

and in dropsy.

"A popular form of using this medicine is that of a syrup. This is an uncertain preparation, owing to the volatility of the active ingredients. It is better given in powder made from the dried root a short time before it is wanted. Ten grains may be taken at a dose, in honey or treacle, and the quantity gradually increased as long as the stomach and head remain unaffected."—Big. Mat. Med. A.]

DRACUTNCULUS. (From Spacor, a serpent.) Gordius medinensis; Vermis medinensis; Verm medinensis; Vermiculus capillaris. The Guinea worm. This animalcule is common in both Indies, in most

parts of Arrica, occasionally at Genoa, and other hot | parte of Arrica, occasionally at Genoa, and other hot countries. It resembles the common worm, but is much larger; is commonly found in the legs, but sometimes in the muscular part of the arms. It principally affects children, and its generation is not unlike that of the broad worms of the belly. While it moves under the skin, it creates no trouble; but, in length of time, the place near the dracunculus suppurates, and the animal puts forth its head. If it be drawn, it excites considerable uneasiness, especially if drawn so forcibly as to break it; for the part left within creates intolerable pain. These worms are of different lengths. In the Edin, ited Essays, mention is made of one that was three yards and a half in length.

DRACUNGULUS PRATENSIS. See Achillea ptarmica.

DRACUNCULUS PRATENSIS. See Achillea ptarmica.

DRACUNCULUS PRATENSIS. See Achillea plarmica.
DRAGACANTHA. See Astragalus.
Dragant gum. See Astragalus.
DRAGON. See Dracs.
Dragon's blood. See Calamus rotang.
Dragon's wort. See Arum dracunculus.
DRAKE, JAMES, M. D. Fellow of the College of Physicians, and of the Royal Society, published, in 1707, "A New System of Anatomy," which, though taken principally from Cowper, being on a reduced plan, and more within the reach of students, was pretty favourably received. In the third edition, it was styled "Anthropologia Nova." In abscesses of the antrum maxillare, he advised drawing one of the molar teeth, to let out the matter. The description of the internal nostrils, and of the cavities entering them, is new; as are also the plates of the abominal Viscera. viscera.

DRAKE'NA. See Dorstonia contrayerva.
DRAC'STIC. (Drasticus. Δραστικος, active, brisk; from δραω, to effect.) A term generally applied to those medicines which are very violent in their action;

thus, drastic purges, emetics, &c.

Drawing slate. See Chalk, black

thus, drastic purges, emetics, &c.

Drawing state. See Chalk, black.

DRELINGCOURT, CHARLES, was born at Paris in 1633; and after studying some years at Saumur, he went to graduate at Montpelier. He soon after attended the celebrated Turenne in his campaigns, and was by him made physician to the army. He was also appointed one of the physicians to Lewis XIV. But in 1688 he was chosen to succeed Vander Linden, as In too he was chosen to succeed values Linuxel, professor of medicine at Leyden; and two years after he was advanced to the chair of anatomy. He was also made physician to William, then Prince of Orange, and his consort; and on their accession to the Orange, and his consort; and on their accession to the throne of England, he spoke the congratulatory oration to them, as rector of the university. He continued in his professorship, giving general satisfaction, to the period of his death in 1697. He was a voluminous and learned, but hardly an original writer; yet his works were very much read at the time. In one of his orations, he exculpates medical men from the charge of implety, observing that the contemplation of the works of God tends to blind them more to religion. In his "Apologia Medica," he refutes the notion, that physicians were excluded from Rome for six hundred years. He strengously opposed the introduction of physicians were excluded from Rome for six number years. He strennously opposed the introduction of chemical preparations into medicine, which was then very prevalent. His son, Charlets, succeeded him in practice, but has left no publication, except his thesis "De Lienosis." Dro Ma. The name of a plaster described by

DRO'MA.

Myrepsus.

Dropaci's NUS. (From δρεπω, to remove.) Dropax. A stimulant plaster of pitch, wax, &c. to take off hair.

DROPAX. See Dropacismus.
DROPSY. Hydrops. A collection of a serous did in the cellular membrane; in the viscera and the circumscribed cavities of the body. See Hydrops, Ascites, Anasarca, Hydrocephalus, Hydrothorax, Hydro drocele

drocele.

Dropsy of the belly. See Ascites.

Dropsy of the brain. See Hydrocephalus.

Dropsy of the chest. See Hydrothorax.

Dropsy of the ovary. See Ascites.

Dropsy of the skin. See Anasarca.

Dropsy of the testicle. See Hydrocele.

DROPWORT. See Chanthe, and Spiraa.

Dropwort, hemlock. See Chanthe.

Dropwort, water. See Chanthe.

DRO'SERA. (From δροσερα, dewy; which is from dpoose, dew; drops hanging on the leaves like dew.)

The name of a genus of plants. Class, Pentandria;

The name of a genus of plants. Class, Pentanaria; Order, Hezagynia. Sun-dew.

Drosera rotusdifolia—the sytematic name of the sun-dew. Ros solis; Rosella. Sun-dew. Drosera rotundifolia—scappis radicatis; folis orbiculatis of Linneus. This elegant little plant is said to be so acrid as to ulcerate the skin, and remove warts and corns; and to excite a fatal coughing and delirium in sheep who eat it. It is seldom given medicinally in this country but by the lower orders, who esteem a decoction of it as serviceable in asthmas and

coughs.

Drossobo'Tanum. (From δροσος, dew, and βο Jaνη, an herb: so called from its being covered with an aromatic dew.) The herb betony. See Betonica.

Drosso'Mell. (From δροσος, dew, and μελι, honey, Honey-dew. Manna.

DRUPA. (Drupæ, unripe olives.) A stone fruit formed of a fleshy or coriaceous seed-vessel, enclosing

It is distinguished into,

1. Drupa successa, when of a succulent fleshy consistence; as the cherry, plum, peach, and nectarine.

2. D. fibrosa, the nut being throse; as in Cocus nu-

3. D. exsicca, dry and subcoriaceous; as the almond and horse-chesnut.

4. D. dehiscens, opening; as in Juglans regia, and

Myristica moschata.

From the number of nuts it contains, the drupa is said to be monosperma, when there is but one, as in the olive and pistachia: and disperma when there are two.

DRUPACEUS. Drupaceous; resembling a drupe, or stone fruit. Applied to the pod of Erugago and

Bunias.

DUCT. See Ductus.

Duct, biliary. See Biliary duct.

DUCTLITY. Ductilitas. A property by which bodies are elongated by repeated or continued pressure. It is peculiar to metals. Most authors confound the words malleability, laminability, and ductility, together, and use them in a loose indiscriminate way; but they are very different. Malleability is the property of a body which enlarges one or two of its three dimensions, by a blow or pressure very suddenly are perty of a body which enlarges one or two of its three dimensions, by a blow or pressure very suddenly applied. Laminability belongs to bodies extensible in dimension by a gradually applied pressure; and ductility is properly to be attributed to such bodies as can be rendered longer and thinner by drawing them through a hole of loss area than the transverse section of the best of the such as the control of the such as the control of the section of the

of the body so drawn.
DUCTUS. A canal or duct.
DUCTUS ARTERIOSUS. A great artery-like canal found only in the feetus, and very young children, between the pulmonary artery and the aorta. In adults it is closed up.

DUCTUS AURIS PALATINUS. The Eustachian tube. DUCTUS BILIARIS. See Choledochus ductus.

DUCTUS COMMUNIS CHOLEDOCHUS. See Choledochus ductus.

DUCTUS CYSTICUS. The trunk of the biliary ducts in the liver which carries the bile from them into the gall-bladder.

DUCTUS HEPATICUS. See Hepatic duct.

DUCTUS LACHRYMALIS. See Lachrymal ducts.
DUOTUS LACTIFERUS. Ductus galactophorus. The
excretory ducts of the glandular substance composing the female breast. The milk passes along these ducts

to the nipple.

DUCTUS AN NASUM. See Canalis nasalis.

DUCTUS PANCREATICUS. The pancreatic duct. It is white and small, and arises from the sharp extremity of the pancreas, runs through the middle of the gland towards the duodenum, into which it pours its contents by an opening common to it and the ductus communis choledochus.

DUCTUS SALIVALES. The excretory ducts of the salivary glands, which convey the saliva into the

DUCTUS STENONIS. The Stenonian duct, which was so called after its discoverer, Steno. It arises from all the small excretory ducts of the parotid gland, and passes transversely over the masseter muscle, penetrates the buccinator, and opens into the mouth.

Ductus thoracicus. See Thoracic duct.

DUCTUS THORACICUS. See Thoracic duet.
DUCTUS VENOSUS. When the vena cava passes the

liver in the fœtus, it sends off the ductus venosus, which communicates with the sinus of the vena porte: which communicates what the shade but, in adults, it becomes a flat ligament.

The exercitory duct of

the maxillary glands; so named after its discoverer.

Dulca'cidim. (From dulcis, sweet, and acidus sour.)

A medicine composed of a sweet and sour in-

pulleam duleis, sweet, and amarus, bitter.) Bitter-sweet. See Solanum duleamara.

Dumbness. See Aphonia and Paracusis.

DUMOSUS. (From dumus a bush.) Bushy.
DUMOSUS. (From dumus a bush.) Bushy.
DUMOSus. The name of an order of plants in Linnaus's Fragments of a Natural Method, consisting of

næus's Fragments of a Natural Method, consisting of shrubby plants, which are thick set with irregular branches, and bushy.

DUNCAN, DANEL, was born at Montaubon, in Languedoc, in 1649, son of a professor of physic in that city, but of a family originally Scotch. Having lost both his parents in early infancy, he was taken under the protection of his maternal uncle, and at a proper age sent to study medicine at Montpelier, where he trale his dargoe. He attention the probled serve years he took his degree. He afterward resided seven years at Paris, where he published his first work, upon the principle of motion in animal bodies. He then visited London, parlty to arrange some family affairs, partly to obtain information concerning the plague, and intended to have settled there; but after two years he was summoned to attend his patron, the great Colbert. was summoned to attend his patron, the great Colbert. He soon after made public two works, in which he attempted to explain the Annual Functions on Chemical and Mechanical Principles. On the death of Colbert, he resided for some years in his native city; but the persecution of the Protestants in 1690 drove him to Switzerland, and he was appointed Professor of Anatomy and Chemistry at Berne, where he got into considerable practice. In 1699 he was sent for to attend siderable practice. In 1699 he was sent for to attend the Princess of Hesse-Classel, who had symptoms of threatening consumption, induced by the excessive use of tea, and other hot liquors; which led him to write a Treatise against that practice, published subsequently by the persuasion of his friend, Boerhaave. He remained there three years, affording meanwhile much relief to the French refugees; and the fame of his liberality procured his invitation to the court of Berlin. but a regard to his health and to economy soon. Merlin: but a regard to his health and to economy soon obliged him to remove to the Hague. In 1714 he accomplished his favourite object of settling in London, and when he reached his 70th year, put in practice his previous resolution of giving his professional services only gratuitously: in which he steadily persevered during the remaining sixteen years of his hre, though, in 1721, he lost the third part of his property by the South-sea scheme.

DING See Eco.

DUNG. See Fax

Dung, devil's. See Ferula assafatida.

DUO. (Δυω, two.) Some compositions consisting two ingredients, are distinguished by this term; as

pilulæ ex duobus. DUODE'NUM.

DUODE NUM. (From duodenus, sonsisting of twelve; so called because it was supposed not to exceed the breadth of twelve fingers: but as the ancients dissected only animals, this does not hold good in the human subject.) The first portion of the small intestines. See Intestines.

DUPLEX. (From duo, two, and plico, to fold.) Double or two-fold. In botany applied to leaves, petals, perianths, &c. The perianthum duplex is seen in Malea althaa and Hibisens.

DUPLICATUS. (From duplex, double.) A name of the double tertian fever.

DUPLICATUS. (From duplex, double.) This term is applied to a flower which has two series or rows of petals.

rows of petals.

DU'RA MATER. (From durus, hard, and mater, a mother: called dura, from its comparative hardness with the pia mater; and mater, from its being supposed to be the source of all the other membranes. Other parts have received the trivial name-of dura, from their comparative hardness; as portio dura, a branch of the seventh pair of nerves.) Dura meninz; Dermatodes. A thick and somewhat opaque and insensible membrane, formed of two layers, that surrounds and defends the brain, and adheres strongly the internal surface of the cranium. It has three comthe internal surface of the cranium. It has three con-siderable processes, the falciform, the tentorium, and the septum cerebelli; and several sinuses, of which

the longitudinal, lateral, and inferior longitudinal, are the principal. Upon the external surface of the dura mater, there are little holes, from which emerge fleshymater, there are into another the state that cheer heavy coloured papille, and which, upon examining the skull-cap, will be found to have corresponding foves. These are the external glanduls Pacchioni. They are in number from ten to fitteen on each side, and are chiefly lateral to the course of the longitudinal sinus. chiefly lateral to the course of the longitudinal sinus. The arteries which supply this membrane with vessels for its own nourishment, for that of the contiguous bone, and for the perpetual exudation of the fluid, or haitus rather, which moistens or bedews its internal surface, may be divided into an error, middle, and posterior. The first proceeds from the ophthalmic and ethmoidal brunches; the second from the internal maxillary and superior pharyngeal; the posterior from the occivities and vertebral arteries.

the occipital and vertebral arteries.

the occipital and vertebral arteries.

The principal artery of the dura mater, named, by way of distinction, the great artery of the dura mater, is derived from the internal maxillary artery, a branch of the external carotid. It is called the spinalis, or spheno-spinalis, from its passing into the head through the spinous bole of the sphenoid bone, or meninga media, from its relative situation, as it rises in the great middle fossa of the skull. This artery, though it sometimes enters the skull in two branches, usually enters in one considerable branch, and divides, soon after it reaches the dura mater, into three or four branches, of which the anterior is the largest; and these spread their ramifications beautifully upon the dura mater, over all that part which is coposite to the dura mater, over all that part which is opposite to the anterior, middle, and posterior lobes of the brain. Its larger trunks run upon the internal surface of the palarger trunks run upon the internal surface of the parietal bone, and are sometimes for a considerable space buried in its substance. The extreme branches of this artery extend so as to inosculate with the anterior and posterior arteries of the dura mater; and through the bones (chiefly parietal and temporal bones), they inosculate with the temporal and occipital arteries. The meningeal artery has been known to become aneurismal, and distended at intervals; it has formed an aneurism destroying the bones and causing entleray aneurism, destroying the bones and causing epilepsy.

DURA MENINX. See dura mater.

DURA MENINY. See dura mater.

DWALE. See Atropa belladonna.

Dwarf clder. See Sambucus ebulus.

DYO'TA. (From δυω, two, and ους, ω/ος, an ear.) A chenical instrument with two ears, or handles.

DYSAESTHE'SIA. (From δυς, difficulty, and αισθανομαι, to feel or perceive.) Impaired feeling.

DYSAESTHESIA. (The plural of Dysaesthesia.) The name of an order in the class Locales of Dr. Cullen's Nosology, containing those diseases, in which the senses are deprayed, or destroyed, from a defect of the external organs. external organs.

senses are depraved, or destroyea, from a detect of the external organs.

Dysanago'gus. (From δυς, with difficulty, and αναγω, to subdue.) Viscid expectoration.

DYSCATAPO'TIA. (From δυς, and κα/απινω, to drink.) A difficulty of swallowing liquids, which Dr. Mead thinks a more proper term than that generally used for canine madness, viz. hydrophobia; as it is more particularly descriptive of the affection under which the unhappy patients labour; for, in reality, they dread water from the difficulty of swallowing it.

DYSCINE'SIA. (From δυς, bad, and κινεω, to move.) Bad or imperfect motion.

Dyscinesia. (The plural of dyscinesia.) Applied to an order in the class Locales of Cullen's Nocology; embracing diseases in which the motion is impeded, or depraved, from an imperfection of the organ.

DYSCOPHO'SIS. (From δυς, with difficulty, and κωφωω, to be deaf.) A defect in the sense of hearing.

DYSCOPHO'SIS. (From δυς, with difficulty, and κωφωω, to be deaf.) A defect in the sense of hearing.

DYSCOE'A. (From δυς, with difficulty, and κωφωνυμι, to mix.) A bad habit of body.

DYSCOE'A. (From δυς, with difficulty, on description) of disease in the class Locales and order Dysæsthesia of Cullen, containing two elses.

and order Dysæsthesiæ of Cullen, containing two speand order Dysasthesis of Cullen, containing two species: Dysecae organica, which arises from wax in the meatus, injuries of the membrane, or inflammation and obstruction of the tube: Dysecae atonica, when without any discernible injury of the organ.

Dyss'LCLL. (From &y, with difficulty, and choos, an ulcer.) An inveterate ulcer, or one difficult to heal-Dyss'METUS. (From &y, with difficulty, and encountry of the organical property of the organical property of the organical property.

DYSENTERIA. See Dysentery

DYSENTERY. (Dysenteria; from &y, difficulty

and evispa, the bowels.) Dissolutus morbus. Diarrhwa carnosa. The flux. A genus of disease in the class Pyrezia, and order Profluxia of Cullen's Nosoloclass Pyrexia, and order Proflacia of Culter's voscio-gy. It is known by contagious pyrexia; frequent griping stools; tenesmus; stools, chiefly mucous, some-times mixed with blood, the natural faces being re-tained or voided in small, compact, hard substances, known by the name of scybala, loss of appetite, and nauses. It occurs chiefly in summer and autumn, and nauses. It occurs chiefly in summer and autumn, and is often occasioned by much moisture succeeding quickly intense heat, or great drought; whereby the perspiration is suddenly checked, and a determination made to the intestines. It is likewise occasioned by the use of unwholesome and putrid food, and by noxious exhalations and vapours; hence it appears often in armies encamped in the neighbourhood of low marshy ground, and proves highly destructive; but the cause which most usually gives rise to it, is a specific contagion; and when it once makes its appearance, where numbers of neonle are collected together. ance, where numbers of people are collected together, it not unfrequently spreads with great rapidity. A peculiar disposition in the atmosphere seems often to predispose, or give rise to the dysentery, in which case it vails epidemically.

It frequently occurs about the same time with au-

tumnal intermittent and remittent fevers, and with these, it is often complicated.

The disease, however, is much more prevalent in warm climates than in cold ones; and in the months of August, September, and October, which is the rainy season of the year in the West Indies, it is very apt to break out and to become very general among the negroes on the different plantations in the colonies. The body having been rendered irritable by the great them of the summer and being exposed suddenly to heat of the summer, and being exposed suddenly to much moisture with open pores, the blood is thereby thrown from the exterior vessels upon the interior, so

thrown from the exterior vessels upon the interior, so ss to give rise to dysenteries.

An attack of dysentery is sometimes preceded by loss of appetite, costiveness, flatulency, sickness at the stomach, and a slight vomiting, and comes on with chills, succeeded by heat in the skin, and frequency of the pulse. These symptoms are in general the foregrunners of the griping and increased evacuations which afterward occur.

afterward occur.

When the inflammation begins to occupy the lower part of the intestinal tube, the stools become more frequent, and less abundant; and, in passing through the inflamed parts, they occasion great pain, so that every evacuation is preceded by a severe graping, as also a rumbling noise.

The motions vary both in colour and consistence being sometimes composed of frothy mucus, streaked with blood, and at other times of an acrid watery huwith blood, and at other times of an acrid watery numour, like the washings of meat, and with a very fertic
smell. Sometimes pure blood is voided; now and then
lumps of coagulated mucus, resembling bits of cheese,
are to be observed in the evacuations, and in some instances a quantity of purulent matter is passed.

Sometimes what is voided consists merely of a
mucous matter, without any appearance of blood, exhibiting that disease which is known by the name of dy-

biting that disease which is known by the name of dysenteria alba, or morbus nuccous.

While the stools consist of these various matters, and are voided frequently, it is seldom that we can perceive any natural faces among them, and when we do, they appear in small hard balls, called scybala, which being passed, the patient is sure to experience some temporary relief from the griping and tenesmus. It frequently happens, from the violent efforts which are made to discharge the irritating matters, that a portion of the gut is forced beyond the verge of the anus, which, in the progress of the disease, proves a troublesome and distressing symptom; as does likewise the tenesmus, there being a constant inclination to go to stool, without the ability of voiding any thing, except perhaps a little mucus. except perhaps a little mucus

More or less pyrexia usually attends with the symptoms which have been described, throughout the whole of the disease, where it is inclined to terminate fatally; and is either of an inflammatory or putrid tendency. In other cases, the febrile state wholly disappears after a time, while the proper dysenteric symptoms probably will be of long continuance. Hence the distinction into acute and chronic dysentery.

When the symptoms run high, produce great loss of strength and are accompanied with a putrid tendency

and a fætid and involuntary discharge, the disease often terminates fatally in the course of a few days; but when they are more moderate, it is often protracted to a considerable length of time, and so goes off at last by a considerable rengit of time, and so goes off at insti-a gentle perspiration, diffused equatily over the whole body; the fever, thirst, and griping then ceasing, and the stools becoming of a natural colour and consist-ence. When the disease is of long standing, and has become habitual, it seldom admits of any cure; and when it attacks a person labouring under an advanced stage of scurvy, or pulmonary consumption, or whose constitution has been much impaired by any other disorder, it is sure to prove fatal. It sometimes appears at the same time with autumnal intermittent and remittent fevers, as has been observed, and is then more complicated and difficult to remove.

Upon opening the bodies of those who die of dysentery, the internal coat of the intestines (but more parti-

tery, the internal coat of the intestines (but more particularly of the colon and rectum) appears to be affected with inflammation and its consequences, such, as ulceration, gangrene, and contractions. The peritonaum, and other coverings of the abdomen, seem likewise, in many instances, to be affected by inflammation. In the treatment of the acute dysentery, when not arising from contagion, but attended by considerable pyrexia and pain, in persons of a strong and full habit, it will be right to commence by a moderate venesection; but in general, lecches to the abdomen will abstract a sufficient quantity of blood followed by formentations, or the warm bath, which may produce a powerful determination to the surface as well as counteract spasm; also blisters or rubefacients should not powerin determination to the safface as wen as coun-teract spasn; also blisters or rubefacients should not be neglected. With regard to internal remedies, a brisk emetic will often be advisable, particularly where the tongue is very foul, the stomach loaded, or marks the tongue is very foul, the stomach loaded, or marks of congestion in the liver appear: it may also, by inducing diaphoresis, materially check the violence of the symptoms, nay sometimes cut short the disease at once." The next object is effectually to clear out the bowels: for which purpose calomel, joined with opium in quantity sufficient to relieve the pain may be given, and followed up by castor oil, neutral salts, &c. tilt they operate. In the mean time, nuclaginous demulcents may help to moderate the irritation. When the bowels have been thoroughly evacuated, it will be important to procure a steady determination to the surface, and the compound powder of ipecacuaha is perhaps the best medicine; assisted by warm clothing, friction, exercise, &c. Should the liver not perform its office properly, the continued use of mercury may be necessary; to restore the strength, and relieve dyspertic symptoms, tonics and antacids will be useful, with a mild nutritious diet; and great care must be taken to obviate accumulation of fixees. In the form of clyster; the bowels may be occasionally relieved by rhubarb, or other mild aperients; mercury should be cautiously employed, where the discharge of bile is indicated, or if that cannot be borne, nitric acid may be tried; and besides great attention to regimen, as in the decline of acute dysentery, mild astringents, with tonics, &c. may contribute materially to the recovery of the nation. of congestion in the liver appear: it may also, by inacute dysentery, mild astringents, with tonics, &c. may

contribute materially to the recovery of the patient.

Dyseruto Trous. (From δυς, with difficulty, and επνλως, to cicatrize.) Dyserpulotus. An inveterate ulcer difficult to be healed.

Dyshæmorrho'is. (From δυς, with difficulty, and αιμορροις, the piles.) Suppression of the bleeding from

DYSLO'CHIA. (From δυς, difficulty, and λοχια, the lochia.) A suppression of the lochia.

DYSMENORRHÆ'A. (From δυς, with difficulty, and μηνορροια, the menses.) A difficult or painful menstruation, accompanied with severe pains in the back, loins, and bottom of the belly.

Dyso'ngs. (From δυς, bad, and οξω, to smell.)

1. A bad smell. Fætid.

Hippocrates applies it to a fætid disorder of the

small intestines.
3. The name of a malagma and acopon in Galen

3. The name of a malagma and acopon in Galen and Paulus Æguneta.
DYSO/PIA. (From bus, bad, and wu, an eye.)
Parorasis. Difficult sight. Sight deprayed, requiring one certain quantity of light, one particular distance, or one position. A genus of disease in the class Locales, and order Dysasthesia of Cullen, containing the five following species:

1. Dysopia tenebrarum, called also Amblyopia cre-puscularis, requiring objects to be placed in a strong mostly of an animal nature, assisted by the warmer light.

2. Dysopia luminis, likewise termed Amblyopia meridiana, objects only discernible in a weak light.

3. Dysopia dissitorum, in which distant objects are not perceived.

4. Dysopia prozimorum, or Dysopia amblyopia, in which objects too near are not perceived.

5. Dysopia laterais, called also Amblyopia luscorum, in which objects are not seen, unless placed in an oblique position. DYSORE'XIA.

(From dus, bad, and opeges, appe

DYSORE XIA. (From δυς, bad, and ορεξις, appetite.) A depraved appetite.

DYSOREXIE. (The plural of Dysorexia.) The name of an order in the class Locales of Cullen's Nosology, which he divides into two sections, appetitus erronei and deficientes.

DYSPE PSIA. (From δυς, bad, and ωεωγο, to concott.) Δρεφεία. Indigestion. Dr. Cullen arranges this genus of disease in the class Neuroses, and order Adynamia. It chiefly arises in persons between thirty and forty years of age, and is principally to be met with in those who devote much time to study, or who lead either a very sedentary or irregular life. A great lead either a very sedentary or irregular life. A great singularity attendant on it is, that it may and often does continue a great length of time, without any aggravation or emission of the symptoms.

Great grief and uneasiness of mind, intense study, profuse excustions, excess in venery, hard drinking, particularly of spirituous liquors, and of tea, tobacco, opium, and other narcoics, immoderate repletion, and over distention of the stomach, a deficiency in the secretion of the bile, or gastric juice, and the being much exposed to moist and cold air, when without exercise, are the causes which usually occasion dyspepsia

A long train of nervous symptoms generally attend on this disease, such as a loss of appetite, nausea, heart-burn, flatulency, acid, fætid, or indorous cructa-tions, a gnawing in the stomach when empty, a sense of constriction and uneasiness in the throat, with pain in the side, or steraum, so that the patient at times can only lie on his right side; great costiveness, habitual chilliness, paleness of the countenance, languor, unwillingness to move about, lowness of spirits, palpitations, and disturbed sleep.

The number of these symptoms varies in different cases, with some, being felt only in part; in others, being accompanied even with additional ones, equally

being accompanied even with additional ones, equally unpleasant, such as severe transient pains in the head and breast, and various affections of the sight, as blindness, double vision, &c.

Dyspepsia never proves fatal, unless when, by a very long continuance, it produces great general debility and weakness; and so passes into some other disease, such as dropsy; but it is at all times very difficult to remove, but more particularly so in warm cli-

The morbid appearances to be observed on dissections of this disease, are principally confined to that part of the stomach which is called the pylorus; which is often found either in a contracted, scirrhous, or ul-cerated state. In every instance, the stomach is per-ceived to be considerably distended with air.

The treatment of dyspepsia consists, I. In obviating the several exciting causes. 2. In relieving urgent symptoms, some of which may tend to prolong the disease. 3. In restoring the tone of the stomach, or of the general system, and thus getting rid of the liability

I. In fulfilling the first indication, we are often much circumscribed by the circumstances or habits of the patient; and particularly when they have been accuspatient; and particularly when they have been accustomed to drink spirits, which they can hardly reliable quish, or only in a very gradual manner. The diet must be regulated by the particular form of the disease; in those who are liable to acidity, it should be chiefly of an animal nature, with the least acescent vegetable substances, and for drink, toast and water, or soda water, adding a little brandy, if really necessary; which happens especially in persons of a forid complexion, it should consist principally of vegetable matter, particularly the ripe subacid fruits, with the meat of young animals occasionally, and if plain water be not agreeable, table-beer, cider, &c. may be allowed for drink; and in those of the phlegmatic temperament the most

nutritions and digestible articles must be selected, mostly of an animal nature, assisted by the warmer condiments, and the more generous fermented liquors in moderation. It will be generally better to take food oftener, rather than to load the stomach too much at once; but more than four meals a day can hardly be requisite; if at any other time a craving should occur, a crust of bread or a piece of biscuit may be eaten.

II. Among the symptoms requiring palliation, heartburn is frequent, resulting from acrimony in the sto-mach, and to be relieved by antacid, or antiseptic remedies, according to circumstances, or diluents and remedies, according to circumstances, or diluents and demulcents may answer the purpose. A sense of weight at the stomach, with nausea, may occasionally indicate a gentle emetic; but will be less likely to occur if the bowels are kept regular. Flatulence may be relieved by aromatics, wther, &c.; and these will be proper for spasmodic, or nervous pains; but if ineffectual, opium should be had recourse to. Vomiting is generally best checked by carbonic acid. When diarrhesa occurs the aromatic confection; is mostly proper some rally best checked by earbonic acid. When diarrhea occurs, the aromatic confection is mostly proper, sometimes with a little opium. But the bowels are much more commonly confined, and mild cathartics should be frequently exhibited, as castor oil, rhubarb, aloes, &c., sometimes the more active, where these do not answer. In those of a florid complexion a laxative diet, with the supertartrate of potassa, or other saline

diet, with the supertartrate of potassa, or other same cattlantic occasionally, may ague better: and where the liver is torpid, mercurials should be resorted to.

III. The third object is to be attempted by tonics, particularly the aromatic bitters, the mineral acids, or the preparations of iron; by the cold bath prudently regulated; by gentle exercise steadily persevered in, particularly walking or riding on horseback; by a careful attention to the diet; by seeking a pure mild air, keeping regular hours, with relaxation and amusement

reeping regular nours, with relaxation and amusement of the mind, &c.

DYSPERMATI'SMUS. (From δυς, bad, and σπερμα, seed.) Agenesia. Slow, or impeded emission of semen, during cotion, insufficient for the purpose of generation. A genus of disease in the class Locales, and order Epischeses of Cullen. The species are:

1. Dyspermatismus urethralis, when the obstruc-

tion is in the urethra.

2. Dyspermatismus nodosus, when a tumour is formed in either corpus cavernosum penis.

3. Dyspermatismus præputialis, when the impediment is from a straightness of the orifice of the præmatismus mucosus, when the urethra is

4. Dyspermatismus mucos. obstructed by a viscid mucus.

4. Dyspermatismus hypertonicus, when there is an excess of erection of the penis.
6. Dyspermatismus epilepticus, from epileptic fits coming on during cottion.

7. Dyspermatismus apractodes, from a want of vi-

gour in the genitals.

Sour in the generalisms refluus, in which the semen is thrown back into the urinary bladder.

DYSPHAGIA. (From ovs, with difficulty, and of any, to eat.) A difficulty of deglutition. A genus of disease in Good's Nosology, embracing five species, Dysphagia constricta; atonica; globosa; uvulosa; lunguaga.

DYSPHO'NIA. (From δυς, bad, and φωνη, the Voice.) A difficulty of speaking. Dissonant voice. The sound of the voice imperfect or deprayed. A genus of disease in Good's Nosology, embracing three species Dysphonia susurrans, puberans, and immoving

DYSPHORIA. (From δυς, and φορεω, gesto.)
Restlessness. A genus of disease in Good's Nosology, it has two species, Dysphorea simplex and anxietas.

DYSPNŒ'A. (From δυς, difficult, and πνεω, to breathe.) Dyspnoon. Difficult respiration, without sense of stricture, and accompanied with cough through the whole course of the disease. A genus of disease in the class Neuroses, and order Spasmi of Cullen. He distinguishes eight species.

Chinen. He distinguishes eight species.

1. Dyspnac catarrhalis, when with a cough there are copious discharges of viscid mucus, called also asthma catarrhale, pneumodes, pneumonicum, and

2. Dyspnæa sicca, when there is a cough without any considerable discharge. Dyspnaa aërea, when the disease is much in

4. Dyspnæa terrea, when earthy or calculous matters are spit up.

5. Dyspnæa aquosa, when there is a scarcity of urine and ædematous feet, without the other symptoms of a dropsy in the chest.

6. Dyspnæa pinguedinosa, from corpulency.
7. Dyspnæa thoracica, when parts surrounding the chest are injured, or deformed.

Dyspnæa extrinseca, from manifest external

See Dyspnæa.

Dy'SPHOON. See Dyspnaa.

DYSTHETICA.

(Δυσθετικα, an ill-conditioned state of the body.) The name of the fourth order of the class Hamatica in Good's Nosology. Cachexies. Its genera are Plethora; Hamorvhagia; Marasmus; Struma; Carcinus; Lues; Elephantius; Bucnemia; Catacausis; Porphyra; Exangia; Gangrena; Ulcus.

DYSTHY MIA. (From cus, bad, and θυμος, mind.) Insanity.

Insanity.

DVSTOCHIA. (From δυς, with difficulty, and τικ τω, to bring forth.) Difficult labour.

DYSTCECHI ASIS. (From δυς, bad, and ςοιχος, order.) An irregular disposition of the hairs in the eyelids.

DYSU RIA. (From δυς, difficulty, and ουρον, urine.) Skillicidium; Ardor urine; Culticio. A suppression or difficulty in discharging the urine. A total suppression is called ischuria; a partial suppression, dysuria: and this may be with or without heat. When there and this may be with or without heat. When there are frequent, painful, or uneasy urgings to discharge the urine, and it passes off only by drops, or in very small quantities, the disease is called strangury. When a sense of pain, or heat, attends the discharge, it passes with difficulty, and is styled ardor urines, heat of the urine. The dysuria is acute, or chronic. Dr. Cullen places this disease in the class Locales, and order Epischases, containing six species: cheses, containing six species:

1. Dysuria ardens, with a sense of heat, without any manifest disorder of the bladder.

2. Dysuria spasmodica, from spasm.

3. Dysuria compressionis, from a compression of 3. Dysuria compressions, from
the neighbouring parts.
4. Dysuria phlogistica, from violent inflammation.
5. Dysuria calculosa, from stone in the bladder.
6. Dysuria nucosa, from an abundant secretion of

The causes which give rise to these diseases are, an inflammation of the urethra, occasioned either by venereal sores, or by the use of acrid injections, tumour, ulcer of the prostate gland, inflammation of the kidneys, or bladder, considerable enlargements of the hemorrhoidal veins, a lodgment of indurated faces in the rectum, apasm at the neck of the bladder, the absorption of cantharides, applied externally or taken internally, and excess in drinking either spirituous or vinous liquors; but particles of gravel, sticking at the neck of the bladder, or lodging in the urethra, and thereby producing irritation, prove the most frequent cause. Gouty matter falling on the neck of the bladder, will sometimes occasion these complaints.

In dysury, there is a frequent inclination to make water, with a smarting pain, heat, and difficulty in void-

In dysury, there is a frequent inclination to make water, with a smarting pain, heat, and difficulty in voiding it, together with a sense of fulness in the region of the bladder. The symptoms often vary, however, according to the cause which has given rise to it. If it proceeds from a calculus in the kidney or ureter, besides the affections mentioned, it will be accompanied with nausea, vomiting, and acute pains in the loins and region of the ureter and kidney of the side affected. When a stone in the bladder, or gravel in the urethra, is the cause, an acute pain will be felt at the end of the penis, particularly on voiding the last drops of urine, and the stream of water will either be divided into two, or be discharged in a twisted manner, not urine, and the stream of water will entire be daviaced into two, or be discharged in a twisted manner, not unlike a corkscrew. If a scirrhus of the prostate gland has occasioned the suppression or difficulty of urine, a hard indolent turnour, unattended with any acute pain, may readily be felt in the perinæum, or by introducing the finger into the rectum.

D

EAGLE STONE. An argillaceous iron stone.

It is situated at the side of the head, and is divided into external and internal ear. The cavricula, or pinna, commonly called the ear, constitutes the external part. It is of a greater or less size, according to the individual. Its external face, which, in a well-formed ear, is a little anterior, presents five eminences, the heliz, anti-heliz, tragus, anti-tragus, lobula; and three cavities, those of the heliz, fossa navicularis, concha.

concha.

The pinna is formed of a fibrous cartilage, elastic and pliant; the skin which covers it is thin and dry; adheres to the fibro-cartilage by a cellular tissue, which is compact, and contains very little adipose substance: the lobule alone contains it in considerable quantity. There are seen under the skin a number of sebaceous children which, farnish a micacous white matter,

There are seen under the skin a number of sebaceous follicles, which furnish a micaceous white matter, that produces the polish and suppleness of the skin.

There are also seen, upon the different projections of the cartilaginous ear, certain muscular fibres, to which the name of muscles have been given, but which are only vestigia. The pinna, receiving many vessels and nerves, is very sensible, and easily becomes red. It is fixed to the head by the cellular tissue, and by muscles, which are called according to their position, anterior, superior, and posterior. These muscles are muscles are muscles are muscles are muscles are they may animals: in man they may. anterior, superior, and posterior. These muscles are much developed in many animals: in man they may be considered as simple vestiges.

The meatus auditorius extends from the concha to The meatus auditorius exiends from the concha to the membrane of the tympanum; its length, variable according to age, is from ten to twelve lines in the adult; it is narrower in the middle than at the ends; it presents a slight curve above, and in front. he external orifice is commonly covered with hairs, like the entrance to the other cavities. It is composed of an osseous part, of a fibro-cartilaginous substance, which is confounded with that of the pinna, of a fibrous part, which completes it above. The skin sinks into it, becoming thinner, and terminates in covering the exter-

nal surface of the membrane in the tympanum. Se low this skin exist a great number of sebaceous folicles, which furnish the cerumen, a yellow, bitter

The middle ear comprehends the cavity of the tympanum, the little bones which are contained in this cavity, the mastoid cells, the Eustachian tube, &c.

this cavity, the mastoid cells, the Eustachian tube, &c. The tympanum is a cavity which separates the external from the internal ear. Its form is that of a portion of a cylinder, but a little irregular. Its external partition presents, on the upper part, the fenestre ovalis, which communicates with the vestibule, and which is formed by a membrane; immediately below, a projection which is called promontory; below this projection, a little groove, which lodges a small nerve; still lower an opening called the fenestra returned, which lower, an opening called the fenestra rotunda, which corresponds to the external winding of the cochlea: and which is also shut by a membrane. The external lower, an opening called the fenestra rotunda, which corresponds to the external winding of the cochlea; and which is also shut by a membrane. The external side presents the membrane is directed obliquely downward and inward; it is bent, very slender and transparent, covered on the outside by a continuation of the skin, on the inside by the narrow membrane which covers the tympanum; it is also covered on this side by the nerve called chorda tympani: its centre serves as a point of fixation for the extremity of the handle of the malleus; its circumference is fixed to the bony extremity of the meatus auditorius: it adheres equally in every point, and presents no opening that might admit a communication between the external and middle ear. Its tissue is dry, brittle, and has nothing analogous in the animal economy; there are neither fibres, vessels, nor nerves, found in it. The circumference of the tympanum presents, in the forepart, ist, The opening of the Eustachian tube, by which the cavity communicates with the superior part of the pharynx; 2dly, The opening by which the tendon of the internal muscle of the malleus enters. Behind are seen, 1st, The opening of the mastoid cells,—irregular winding cavities, which are also

the tympanum, and all the canals which end there, are covered with a very siender mucous membrane: this cavity, which is always full of air, contains besides four small bones, (the malleus, incus, os orbiculare, and stapes,) which form a chain from the membrana tympani to the fenestra ovalis, where the base of the stapes is fixed. There are some little muscles for the purpose of moving this osseous chain, of stretching and slackening the membranes to which they are attached: thus, the internal muscle of the malleus draws it forward, bends the chain in this direction, and stretches the membranes; the anterior muscle produces the contrary effect: it is also supposed that the small muscle which is placed in the pyramid, and small muscle which is placed in the pyramid, and which is attached to the neck of the stapes, may give a slight tension to the chain, in drawing it towards

The internal ear, or labyrinth, is composed of the cochlea, of the semicircular canals, and of the ves-

tibule.

tibule.

The cochlea is a bony cavity, in form of a spiral, from which it has taken its name. This cavity is divided into two others, called the gyri of the cochlea, and which are distinguished into external and internal. The partition which separates them is a plate set edgeways, and which in its whole length is partly bony, and partly membranous. The external gyration com-municates by the fenestra rotunda with the cavity of the tympanum; the internal gyration ends in the ves-

tibule.

The semicircular canals are, three cylindrical cavities, bent in a semicircular form, two of which are disposed horizontally, and the others vertically. These canals terminate by their extremities in the vestibule. They contain bodies of a gray colour, the extremites of which are terminated by swellings.

The vestibule is the central cavity, the point of union of all the others. It communicates with the tympanum by the fenestra ovalis, with the internal gyration of the caviles with the semicircular canals, and with

of the cochlea, with the semicircular canals, and with the internal meatus auditorius, by a great number of

little openings.

The whole of the cavities of the internal car are hollowed out of the hardest part of the petrous portion of the temporal bone: they are covered with an extremely thin membrane, and are full of a very thin and limpid fluid, called Liquer of Cotunnius, which can flow out by two narrow apertures, known by the name of the aqueducts of the cochlea, and of the vestibule: they contain, besides, the acoustic nerve.

The acoustic nerve proceeds from the fourth ventricle: it enters into the labyrinth by the holes that the internal auditory meatus presents in its bottom. Haing entered into the vestibule, it separates itself into a number of branches, one of which remains in the yestibule, and two go to The whole of the cavities of the internal ear are

tibule, another enters into the cochlea, and two go to the semicircular canals. Scarpa has very minutely described the distribution of these different branches

in the cavities of the internal ear.

In terminating this short description, we remark that the internal and middle ear are traversed by that the internal and middle ear are traversed by several nervous threads, the presence of which is, perhaps, useful to hearing. It is known that the facial nerve proceeds a considerable space in a canal of the petrous portion. In this canal it receives a small thread of the vidian nerve; it furnishes the chorda tympanl, which attaches itself to this membrane. There are two other nervous inosculations in the ear; to one of which Ribes called the attention of anatomists not long since: the other was recently discoursed. mists not long since; the other was recently discovered by Jacobson.

See Cerumen aurium Ear-wax.

Hæmatites, or blood-stone

EARTH. Terra. Although there seems to be an almost infinite variety of earthy substances scattered on the surface of this globe, yet when we examine them with a chemical eye, we find, not without sur-

ways filled with air; 2dly, The pyramid, a little hollow projection, which lodges the muscle of the stapss; 3dly, The opening by which the chorda tympani enters into the hollow of the tympanum presents a sit, called glenoid, by which the tendon of the anterior muscle of the malleus enters, and donot the anterior muscle of the malleus enters, and the chorda tympani passes out, and goes to unie itself with the lingual nerve of the fifth pair.

Above, the circumference presents only a few small openings, by which blood-vessels pass. The cavity of the tympanum, and all the canals which end there, are covered with a very slender muccous membrane: this 1. Barytes. 2. Strontites. 3. Lime. 4. Magnesia.

1. Barytes. 2. Strontites. 3. Lime. 4. Magnesia. 5. Alumina, or clay. 6. Silica. 7. Glucina. 8. Zirconia. 9. Yttria.

Alkalies, acids, metallic ores, and native metals, were supposed to be of an entirely dissimilar consti-

The brilliant discovery by Sir H. Davy, in 1808, of the metallic bases of potassa, soda, barytes, strontites, and lime, subverted the ancient ideas regarding the

and lime, subverted the ancient locas regarding the earths, and taught us to regard them as all belonging, by most probable analogies, to the metallic class.

To the above nine earthy substances, Berzelius has lately added a tenth, which he calls thorina. Whatever may be the revolutions of chemical nomenclature, mankind will never cease to consider as earths, those solid bodies composing the mineral strata, which are incombustible, colourless, not convertible into metals by all the ordinary methods of reduction, or when reduced by scientific refinements, possessing but an evanescent metallic existence, and which either alone,

evanescent metanic existence, and which ether alone, or at least when combined with carbonic acid, are insipid and insoluble in water.

Earth, absorbent. See Absorbent.

Earth, aluminous. See Alumina.

Earth, animal calcareous. This term is applied to crab's-clave, &c. which contain calcareous earth, and are obtained from the animal kingdom.

Earth, argillaceous. See Alumina.

Earth-bath. A remedy recommended by some writers on the continent, as a specific in consumption.

Earth, bolar. See Bole.

Earth, fullers'. Cimolia purpurescens. A compact bolar earth, commonly of a grayish colour. It is sometimes applied by the common people to inflamed breasts, legs, &c. with a view of cooling them.

breasts, legs, occ. with a view of cooling them.

Earth, heavy. See Barytes.

Earth, Japan. See Acacia catechu.

Earth, mineral calcareous. Those calcareous earths
which are obtained from the mineral kingdom. The term is applied in opposition to those obtained from

Earth-nut. See Bunium bulbocastanum.
Earth, scaled. Terra sigillata. Little cakes of earths, which are stamped with impressions. They were formerly in high estimation as absorbents, but now fallen into disuse.

Eurth-norm. See Lumbricus terrestris.

Euton's styptic. French brandy highly impregnated with calcined green vitriol. A remedy for

nated with calcined green vitriol. A remedy for checking hæmorrhages.
[EATON, Amos, professor in the Rensselaer school, at Troy, in the state of New-York. Although Professor Eaton is still living, we deem it but justice to say, that he is one of the most industrious and indefatigable votaries of natural science in the state. He has lectured a number of years at Albany and Troy, on botany, mineralogy, and geology. He has published a valuable Manual of Botany for the Northern States, a Geological Section of the Country from Boston to Lake Frie, and a namphelic containing at Co. ton to Lake Erie, and a pamphlet, containing a "Geological Nomenclature for North America." He has ological Nomenclature for North America." He has been employed for seven years past, under the direction of the Hon. Stephen Van Rensselaer, in travelling over different parts of the state of New-York, and those adjoining, and in making geological surveys and examinations of strata. He has probably done more in this way than any geologist in the country. He promises to publish a System of American Geology, in which will be displayed some peculiarities of the formations in this country, and show how they differ from those of the Eastern continent. A.]

Eaw-de-luce. See Spiritus ammonia succinatus. Eaw-de-rubel. This is composed of one part of sulphurous acid to three of rectified spirit of wine. It is much used in France, when diluted, in the cure of igonorrhæs, leucorrhæs, &c.

igonorrhœas, leucorrhœa, &c.

See Hibiscus abelmoschus.

EBULLITION. Cebullitio. From chullio, to bubble up.) Boiling. This consists in the change which a fluid undergoes from a state of liquidity to that of an elastic fluid, in consequence of the application of heat, which dilates and converts it into

EBULUS. (From ebullio, to make boil: so called because of its supposed use in purifying the humours of the body.) See Sambucus chulus.

Εςβο'λισΑ. (From εκβαλλω, to cast out.) Medi-

cines which cause abortion

Ecbo'Lios. (From εκβαλλω, to cast out.) Miscarriage.

ECBRA'SMATA. (From εκδραζω, to be very hot.)
Ecchymata. Painful fiery pimples in the face, or surface of the body. ECBRA'SMUS. (From εκδραζω, to become hot.) Fer-

Echyrso'MATA. (Prom  $\varepsilon \kappa$ , and  $\beta \nu \rho \varepsilon \alpha$ , the skin.) Protuberances of the bones at the joints, which appear through the skin.

ECCHYLO'MA. (From εκ, and χυλος, juice.) An extract.

ECCHY MATA. (From εκχυω, to pour out.) See

ECCHYMO'MA. (Εκχυμωμα; from pour out.) Eeckymosis; Crustula; Sugillatio. Ex-travasation. A black and blue swelling, either from a bruise or spontaneous extravasation of blood. A genus of disease in the class Locales, and order Tumores of Cullen.

ECCHYMOMA ARTERIOSUM. The false aneurism. ECCHYMO'SIS. See Ecchymoma. E'CCLISIS. (From εκκλινω, to turn aside.) A luxation or dislocation.

E'CCOPE. (From εκκοπ 7ω, to cut off.) The cut-

ting off any part.

Ecco'prus. (From εκκοπ/ω, to cut off.) An an-

ECCOFEUS. (From εκκοπ'/ω, to cut off.) An an-cient instrument, the raspatory, used in trepanning. ECCOPRO'TIC. (Eccoproticus; from εκ, and κο-προς, dung.) An opening medicine, the operation of Which is very gentle; such as manna, senna, &c. ECCRINOGRITICA. (Prom εκκρηνω, to secrete, and ερανω, to judge.) Judgments formed from the se-

ECCRINOLO'GIA. (From εκκρινω, to secrete, and λογος, a discourse.) Eccrinologica. secretions.

ECCRISIS. (From εκκρινω, to secrete.) A secretion of any kind.

ECCRITICA. (From εκκρινω, to secern, or strain off.) Dr. Good applies this name to a class of diseases of the excernent system. It has three orders, viz. Mesotica, Catotica, Acrotica. ECCYESIS. (From a

EOUNG, Catolica, Actolica.

EOUNESIS. (From εκ, and κυησις, gravidity.)

Extra-uterine fectation. The name of a genus of diseases in Good's Nosology. It has three species: Eccysis course, tubulis, abdominalis.

ECCYMOSIS. See Ecchymoma.

ECDORA. (From εκέρρω, to excoriate.) An excoriation: and particularly used for an excoriation of the ureflux.

the urethra.

(From εκδερω, to excoriate.) Medicines ECDO'RIA.

which excoriate and burn through the skin.

ECHECO'LLON. (From εχω, to have, and κολλα, ue.) Echecollum. Any topical glutinous remedy. ECHETRO'SIS. So Hippocrates calls the white

briony.

ECHINATUS. Bristly. Applied in botany to any thing beset with bristles, as the pod of Glycyrrhiza cchinala, and to the gourd seed-vessel, or pepo.

ECHINITES. In Hippocrates it is mentioned as what he used for purging the womb with.

ECHINOPHTHATMIA. (From extros, a hedge-hog, and ophahua, an inflammation of the eye.) An inflammation of the part of the eyelids, where the hairs bristle out like the quills of an echinus, or hedge-hog.

ECHINOPO'DIUM. (From εχινος, a hedge-hog, and πους, a foot; so named because its flowers resemble the foot of an urchin.) A species of broom or

ECHI'NOPS. (From extros, as beset with prickles.)
The name of a genus of plants. Class, Syngenesia;
Order, Polygamus segregata.

ECHINOPS SPHEROCEPHALUS. The systematic name

of the globe-thistle. Crocodilion; Acantharuca; Scabiosa carduifolia; Spherocephala elatis; Echinopus. It is raised in our gardens. The root and seeds are moderately dinretic, but not used.
ECHINOPUS. See Echinops.
ECHINUS. 1. The hedge-hog, or Erinaceus Europaus of Linneus.
2. Agenus in the Linnean system, included in the molusca order of vermes.
3. The anleaseous restriction of the ree hodgeshop.

3. The calcareous petrifaction of the sea hedge-hog.
4. The prominent points on the surface of the pileus, or upper part of the mushroom tribe, are called echini.

ECHIOIDES. ECHIOIDES. (From εχις, a viper, and ειδος, resemblance.) The trivial name of some plants, from their supposed resemblance to the Echium.

their supposed resemblance to the Echium.

E'CHIUM. (From exis, a viper, so called because it was said to heal the stings of vipers.) The name of a genus of plants in the Linnean system. Class, Fentandria; Order, Mongynia. Viper's bugloss.

ECHIUM MOUPTLACUM. Wall bugloss. The Asperugo agyptiaca, the root of which is sudorific, and is used with oil as a dressing for wounds.

E'CHOS. HXOS. Sound. In Hippotrates, it signifies the same as the tinnitus aurium, or noise in the

E'CHYSIS. (From εχυω, to pour out.) A fainting

ECLA MPSIA. (From εκλαμπω, to shine.

Ectumpsis.

ECLA'MPSIS. (From εκλαμπω, to shine. Ectump sia. It signifies a splendour, brightness, effulgence, flashing of light, scintillation. It is a flashing light, or those sparklings which strike the eyes of epileptic patients. Ceelius Aurelianus calls them circuli ignet; scintillations, or fiery circles. Though only a symptom of the epilepsy, Hippocrates puts it for epilepsy itself

ECLE'CTIC. (Eclecticus; from εκλεγω, to select.) Archigenes and some others selected from all other sects what appeared to them to be the best and most rational; hence they were called Eclectics, and their

medicine Eclectic medicine.

ECLE'CTOS. (From εκλειχω, to lick up. A line-tus, or soft medicine, like an electuary, to be licked up. ECLE'GMA. (From εκλειχω, to lick.) A linetus, or form of medicine made by the incorporation of oils with syrups, and which is to be taken upon a liquor-

ice stick. Ε'CLYSIS. (From εκλυω, to dissolve.) A uni-

versal faintness.

ECMA'GMA. (From εκμασσω, to form together.)

A mass of substances kneaded together.

ECPEPIE'MENOS. (From εκπιεζω, to press out.)

An ulcer with protuberating lips. ΕCPHLYSIS. (Εκφλυσις; from εκφλυζω, to boil, or bubble up, or over.) A blam, or vesicular eruption. The name of a genus of disease in Good's Nosology. It has four species, viz. Ecphlysis pompholex, herpes,

Thypia, and eczema.

ECPIHRA'CTIC. (From εκφρασσω, to remove obstructions. That which attenuates tough humours, so

as to promote their discharge.

ECPHRA'XIS. (From εκφρασσω, to remove ob struction.) A perspiration, an opening of obstructed

ECPHRONIA. (Εκφρωνε, οτ εκφροσυνη, from εκφρων, extra mentem, out of one's mind.) The name of a genus in Good's Nosology. Insanity and craziness. It has two species: Ecphronia melancholia, and Ecphronia mania. E'CPHYAS. (From εκ, and φυο, to produce.) 1.

An appendix, or excrescence.

2. The appendicula cæci vermiformis.

ECPHYMA. (From εκφυω, educo, egero.) A cu-taneous excrescence. The name of a genus of diseases in Good's Nosology. Class, Eccritica; Order, Acrotia. It has four species, viz. Ecphyma caruncula, verruca, clavus, and callus.

Ε΄ CPHYSE. (From εκφυσαω, to blow out.) Flatns from the bladder through the urethra, and from the wound through the vagina.

cound introugation variants. Express's iss. (From εκφυσίω, to breathe through.) quick expulsion of the air from the lungs. Ε'(PHYSIS. (From εκφυω, to produce.)
1. An apophysis, or appendix.

2. A process.

ECPIE'SMA. (From εκπεζω, to press out.) A fracture of the skull, in which the bones press inwardly. ECPIE'SMOS. (From εκπεζω, to press out.) A disorder of the eye, in which the globe is almost pressed out of the socket by an afflux of humours. ΕCPIER'MA. (From εκπληροω, to fill.) In Hippocrates they are hard balls of leather, or other substances, adapted to fill the arm-pits, while by the help of the heels, placed against the balls, and repressing the same, the luxated os humeri is reduced into its place.

ECPLE'XIS. (From εκπλησω, to terrify or astonish.) A stupor, or astonishment, from sudden external acci-

E'CPNOR. (From εκπνεω, to breathe.) Expiration; that part of respiration in which the air is expelled from

ECPTO'MA. (From εκπιπ7ω, to fall out.) 1. A

luxation of a bone.

The expulsion of the secundines.
 The falling off of gangrenous parts.
 A hernia in the scrotum.

A falling down of the womb.

ECPY CTICA. (From εκπνικά,ω, to condense.) Medicines that render the fluids more solid.

ECPYE'MA. (From εκ, and πυον, pus.) A collection of pus, from the suppuration of a tumour.

ECPYESIS. (From εκπνιω, to suppurate.) The name of a genus of diseases in Good's Nosology. Class, Eccritica; Order, Aerotica. Hunid scalp. It has four species, Ecpyesis impetigo, porrigo, ecthyma, ECRE'GMA. (From εκρηγνυμε, to break.) A rup-

ECRE'XIS. (From εκρηγυμι, to break.) A rupture. Hippocrates expresses by it a rupture or laceration the womb.

ECHRY THMOS. (From  $\epsilon \kappa$ , and  $\rho \nu \theta \mu \rho \rho$ , harmony.) A term applied to the pulse, and signifies that it is irre-

E'CROE. (From εκρεω, to flow out.) An efflux, or the course by which any humour which requires

the course by which any humour which requires purging is evacuated.

Elements. The French for scroula.

Elements. (From εκρεω, to flow out.) In Hippocrates it is an efflux of the semen before it receives the conformation of a feetus, and therefore is called an efflux, to distinguish it from abortion.

ECSARCO'MA. (From εκ, and σαρξ, flesh.)

fleshy excrescence

E'CSTASIS. (Ecstasis, eos. f. Εκςασις; from εξιςα-σε, to be out of one's senses.) An ecstasy, or trance. Hippocrates it signifies a delirium.

Ecstro'phius. (From εκςρεφω, to invert.) An epithet for any medicine, that makes the blind piles

appear outwardly. ECTHELY'NSIS. (From εκθελυνω, to re nder effeminate.) Softness. It is applied to the skin and flesh, when lax and soft, and to bandages, when not suffi-

centry ugnt.

ECTHLIMMA. (From εκθλιβω, to press out against.)

An ulceration caused by pressure of the skin.

ECTHLIPSIS. (From εκθγιβω, to press out against.)

Elision, or expression. It is spoken of swelled eyes, when they dart forth sparks of light.

E'CTHYMA. (Ecthyma, atis. n. εκθυειν, to rage, or

break forth with fury.) A pustule or cutaneous erup-

ECTILLO'TICA. (From εκ/λλω, to pull out.) Medicines which eradicate tubercles or corns, or destroy superfluous hair.

(From εκ7οπος, out of place.) Dis-

ECTOPIE. (The plural of ectopia.) Parts displaced. An order in the class locales of Cullen's Nosology. See Nosology.

ECTRAPELOGA'STROS. (From εκ /ρεπομαι, to degenerate, and γαςηρ, a belly.) One who has a monstrous belly, or whose appetite is voraciously large.

ECTRI'MMA. (From εκ ριβω, to rub off.) An excent

riation. In Hippocrates it is an exulceration of the skin about the os sacrum. ECTRI'MMA.

E'CTROPE. (From εκ-)ceπω, to divert, pervert, or invert.) It is any duct by which the humours are diverted and drawn off. In P. Ægineta it is the same as Ectro-

ECTRO'PIUM. (From εκ/ρεπω, to evert.)

eversion of the eyelids, so that their internal surface is outermost

There are two species of this disease: one produced by an unnatural swelling of the lining of the eyelids, which not only pushes their edges from the eyeball, but which not only pushes their edges from the eyeball, but also presses them so forcibly, that they become everted; the other arising from a contraction of the skin covering the eyehd, or of that in the vicinity, by which means the edge of the eyelid is first removed for some distance from the eye, and afterward turned completely outward, together with the whole of the affect

The morbid swelling of the lining of the eyelids, which causes the first species of ectropium, arises mostly from a congenital laxity of this membrane, afterward increased by chronic ophthalmies, particularly of a scrofulous nature, in relaxed, unhealthy subjects; or else the disease originates from the small-

pox affecting the eyes

While the disease is confined to the lower eyelid, as While the disease is confined to the lower eyelid, as it most commonly is, the lining of this part may be observed rising in the form of a semilunar fold, of a pale red colour like the fungous granulations of wounds, and intervening between the eye and eyelid, which latter it in some measure everts. When the swelling is afterward occasioned by the lining of both the eyelids, the disease assumes an annular shape, in the centre of which the eyeball seems sunk, while the circumtre of which the eyeball seems sunk, while the circum-ference of the ring presses and everts the edges of the two eyelids, so as to cause both great uneasiness and deformity. In each of the above cases, on pressing the skin of the eyelids with the point of the finger, it be-comes manifest that they are very capable of being clongated, and would readily yield, so as entirely to cover the eyeball, were they not prevented by the in-tervening swelling of their membranous lining.

tervening swelling of their membranous lining.

Besides the very considerable deformity which the disease produces, it occasions a continual discharge of tears over the cheek, and, what is worse, a dryness of the eyeball, frequent erasperated attacks of chronic ophthalmy, incapacity to bear the light, and, lastly opacity and ulceration of the cornea.

The second species of extropium, or that arising from a contraction of the integuments of the eyelids, or neighbouring parts, is not unfrequently a conse-

from a contraction of the integuments of the eyelidas, or neighbouring parts, so not unfrequently a consequence of puckered scars, produced by a confluent small-pox, deep burns, or the excision of cancerous og encysted tumours, without saving a sufficient quantity of skin; or, lastly, the disorder is the effect of malignant carbuncles, or any kind of wound attended with much lose of substance. Each of these career is noticed. much loss of substance. Each of these causes is quite enough to bring on such a contraction of the skin of the eyelids as to draw the parts towards the arches of the orbits, so as to remove them from the eyeball, and the orbits, so as to remove them from the eyeball, and turn their edges outward. No sooner has this circumstance happened, than it is often followed by another one equally unpleasant, namely, a swelling of the internal membrane of the affected cyclids, which afterward has a great share in completing the eversion. The lining of the eyelids, though trivially everted, being continually exposed to the air, and irritation of extraneous substances, soon swells, and rises up like fungus. One side of this fungous-like tumour covers a part of the eyeball: the other nucleus the eyebil covers.

being continually exposes to the sur, but intribution occurrances substances, soon swells, and rises up like fungus. One side of this fungus-like tumour covers a part of the eyeball; the other pushes the eyeba so considerably outwards, that its edge is not unfrequently in contact with the margin of the orbit. The complaints induced by this second species of ectropium are the same as those brought on by the first; it being noticed, however, that in both cases, whenever the disease is very inveterate, the fungous swelling of the inside of the eyelids becomes hard, and as it were callous.

Although, in both species of ectropium, the lining of the eyelids seems equally swollen, yet the surgeon can easily distinguish to which of the two species the disease belongs. For, in the first, the skin of the eyelids, and adjoining parts, is not deformed with scars; and by pressing the everted eyelid with the point of the finger, the part would with ease cover the eye, were it not for the intervening fungous swelling. But in the second species of ectropium, besides the obvious cieartix and contraction of the skin of the eyelids, or adjacent parts, when an effort is made to cover the eye with the everted eyelid, by pressing upon the latter part with the point of the finger, it does not give way so as completely to cover the globe, as it ought to do, only yielding for a certain extent: or it does not move in the least from its unnnatural position, by reason of the

Integuments of the eyelids having been so extensively signifies strictly an injection, but is used to express the destroyed, that their margin has become adherent to access of a distemper, or of a particular paroxysm. destroyed, that their margin has become adherent to the arch of the orbit.

ECTRO'SIS. (Εκτρωσις; from εκζιζρωσκω, to miscarry.) A miscarriage.

Ectro'τιοΔ. (From εκ/ι/ρωσκω, to miscarry.) Ectyrotica; Ectylotica. Medicines which cause abor-

ECTYLO'TICA. See Ectillotica.

ECTRO TICA. See Entrotica.
ECZE MA. (From exges, to boil out.) Eczesma. A hot, painful eruption, or pustule.
EDE LPHUS. The prognosis of a disease from the

nature of elements.

EDULCORA'NTIA. (From edulco, to make sweet.)
Edulcorants. Medicines which purify the fluids, by

Educorants. Intercents when your depriving them of their acrimony.

EFFERVESCENCE. (Effervescentia; from effervesce. to grow hot.) 1. That agitation which is proved to the province of the pr vesco, to grow hot.) 1. That agitation which is produced by mixing substances together, which cause the evolution of a gas.

2. A small degree of ebullition.

Effica. Freckles.

EFFLORESCENCE. (Efflorescentia; from effloresce, to blow as a flower.) I. In pathology, it is used to express a morbid redness of the skin, and is generally synonymous with exanthema.

2. In chemistry, it means that effect which takes place when bodies spontaneously become converted into a dry powder. It is almost always occasioned by the loss of the water of crystallization in saline bodies

3. In botany, it is applied to express the blooming of

flowers, and the time of flowering.

EFFLU'VIUM. (From effluo, to spread abroad.)

See Contagion.

EFFRACTU'RA. (From effringe, to break down.) A fracture, in which the bone is much depressed by the

EFFUSION. (Effusio;) from effundo, to pour out.) In pathology it means the escape of any fluid out of the vessel, or viscus, naturally containing it, and its lodgment in another cavity, in the cellular substance or in the substance of parts. Effusion also sometimes signifies the morbid secretion of fluids from the vessel. sels; thus physicians frequently speak of coagulable lymph being effused on different surfaces. EGERAN. A sub-species of pyramidal garnet of a

reddish-brown colour.

EGERAN. A sub-species of pyramidal garnet of a reddish-brown colour. Ecg\*RIBS. (From egero, to carry out.) Egestio. An excretion, or evacuation.

EGG. Ovum. The eggs of hens, and of birds in general, are composed of several distinct substances.

1. The shell or external coating, which is composed of carbonate of lime. 72, phosphate of lime. 2, gelatine 3. The remaining 23 are perhaps water. 2. A thin white and strong membrane, possessing the usual characters of animal substances. 3. The white of the egg, for which, see Addument. 4. The yelk, which appears to consist of an oil of the nature of fat oils, united with a portion of serous matter, sufficient to render it diffusible in cold water, in the form of an emulsion, and concretible by heat. Yelk of egg is used as the medium for rendering resins and oils diffusible in water. The eggs of poultry are chiefly used as food, the different parts are likewise employed in pharmacy and in medicine. The calcined shell is esteemed as an absorbent. The oil is softening, and is used externally to burns and chaps. The yelk renders oit miscible with water, and is triturated with the same view with resinous and other substances. Raw eggs have been much recommended as a popular remedy for jaundice. jaundice.

EGREGO'RSIS. (From εγρηγορεω, to watch.) A watchfulness, or want of sleep.

Εί'ιΑΜΙΣ. (From είλεω, to involve.) A membrane

involving the brain.

Elle M. (From ειλεω, to form convolutions.) In Hippocrates, it signifies painful convolutions of the intestines from flatulence. Sometimes it signifies a co-Vogel says, it is a fixed pain in the bowels, as if a nail was driven in.

Et mon. (From ειλεω, to wind.) Gorræus says it is a name of the intestinum ileum.

Ei'LEOS. (From ειλεω, to form convolutions.) The

Inspiration of air.

Efaculto, to east out.)

Efacultoria. The vessels which convey the seminal matter secreted in the testicles to the penis. These are the epididymis, and the vasa deferentia; the vesiculus seminales are the receptacles of the semen.

EJECTIO. (From ejicio, to cast out.) Ejection, or the discharging of any thing from the body.

ELECA'LII. The Indian name of a cathartic shrub,

the Euphorbia mervifolia, of Linnaus.
ELEA ONON. (From thatov, oil, and ayvos, chaste.)

ELEA ONON. (From ελαιου, oil, and αγυος, chaste.) See Viter agraes castus.
ELEO MELL. (From ελαιου, oil, and μελι, honey.) A sweet purging oil, like honey.
ELEOSA CHARUM. (From ελαιου, oil, and σακχαρου, sugar.) A mixture of an essential oil with

Sugar.

ELEOSELI'NUM. See Eleoselinum.

ELAIN. The oily principle of solid fats, so named by its discoverer, Chevreuil, who dissolves tallow in very pure hot alkohol, separates the stearin by crystallization, and then procures the elain by evaporation tallization, and then procures the claim by evaporation of the spirit. Braconnot has adopted a simpler, and probably a more exact method. By squeezing tallow between the folds of porous paper, the claim soaks into it, while the stearin remains. The paper being then soaked in water, and pressed, yields up its oily impregnation. Elain has very much the appearance and properties of vegetable oil. It is liquid at the temperature of 60°. Its smell and colour are derived from the solid for from which it is extracted. the solid fats from which it is extracted

["Mr. Pictet's method of procuring elaine, consists in pouring upon oil a concentrated solution of caustic soda, stirring the mixture, heating, it slightly to separate the elaine from the soap of the stearine, pouring it on a cloth, and then separating by decantation the elaine from the excess of alkaline solution.—Webster's

Man. of Chemistry. A.]

ELAIS GUINEE'NSIS. A Species of palm which grows spontaneously on the coast of Guinea, but is much cultivated in the West Indies. It is from this tree that the oil, called in the West Indies. Mackaw fat, is obtained: and, according to some, the palm-oil, which is considered as an emollient and strengthener of all kinds of weakness of the limbs. It also is recommended against bruises, strains, cramps, pains, swellings, &c. A method of analyzing mineral ELAMBICA'TIO.

ELAPHOBO'SCUM. (From ελαφος, a stag, and βοσκω, to eat: so called, because deer eat them greedi-

iy.) See Pastinaca.
 ELAPHOSCO'RODON. (From ελαφος, the stag, and σκοροδον, garlie.) Stag's or viper's garlie.
 ELA'SMA. (From ελαννω, to drive.) A lamina of

and σκοροδον, garlic.) Stag's or viper's garlic. ELA'SMA. (From Abarva, to drive.) A lamina of any kind. A clyster-pipe. ELASTIC. (Elasticus; from thagys, impulsor, os of ελαυνειν, to impel, to push.) Springy; having the power of returning to the form from which it has been forced to deviate, or from which it is withheld; thus, a blade of steel is said to be elastic, because if it is bent to a certain degree, and then let go, it will of itself return to its former situation; the same will happen to the branch of a tree, a piece of Indian rubber, &c. See Elasticity. See Elasticity

Ecc. See Elasticity.

Elastic fluid. See Gas.

Elastic gum. See Caoutchous.

ELASTICITY. Elasticitas. A force in bodies, by which they endeavour to restore themselves to the posture from whence they were displaced by any external force. To solve this property, many have recourse to the universal law of nature, attraction, by which the parts of solid and firm bodies are caused to cohere together: whereby, when hard bodies are struck or bent, so that the component parts are a little moved from one another, but not quite disjoined or broken off, nor separated so far as to be out of the power of the attracting force, by which they cohere together; they certainly must, on the cessation of the external violence, spring back with a very great velocity to their former state. But in this circumstance, the atmospherical pressure will account for it as well; because such a violence, if if the not great another. which the parts of solid and firm bodies are caused to Er's solls. (From εις, into, and βαλλω, to cast.) It because such a violence, if it be not great enough to

separate the constituent particles of a body far enough | excessive operation resulting from it."-Big. Mat to let in any foreign matter, must occasion many va-cuola between the separated surfaces, so that upon the cuoia between the separated surfaces, so that upon the removal of the external force, they will close again by the pressure of the aerial fluid upon the external parts, i.e. the body will come again into its natural posture. The included air, likewise, in most bodies, gives that power of resilition upon their percussion. If two bodies perfectly elastic strike, one against another, there will be or remain in each the same relative relative as before.

another, there will be or remain in each the same rela-tive velocity as before, i.e. they will recede with the same velocity as they met together. For the compress-ive force, or the magnitude of the stroke in any given bodies, arises from the relative velocity of those bodies, and is proportional to it, and bodies perfectly elastic will restore themselves completely to the figure they had before the shock; or, in other words, the resti-tutive force is equal to the compressive, and therefore must be equal to the force with which they came to-gether, and consequently they must be elegitive. gether, and consequently they must, by elasticity, re-cede again from each other with the same velocity. Hence, taking equal times before and after the shock, the distances between the bodies will be equal: and therefore the distances of them from the common cen-tre of gravity will, in the same times, be equal. And hence the laws of percussion of bodies perfectly elastic are easily deduced

ELATE RIUM. (From ελαυνω, to stimulate or agitate: so named from its great purgative qualities.)

agitate: so named from its great purgative quanties.) See Monorities elaterium is a perennial plant, growing spontaneously in the south of Europe. The rivit, which is botanically allied to the encumber and melon, has the curious property of separating itself, when ripe, from its stalk, and ejecting its seeds with great force through an opening in the base, where the stalk was attached: The medicinal property resides that it is a superior of the fruit, and about chiefly in the juice at the centre of the fruit, and about the seeds. The drug called *Elaterium* in our Pharmacopeia, and which the London College have, with some latitude of application, called an extract, is the sediment which subsides from the juice of the fruit after it has been drawn out. The quantity of genuine elaterium contained in a single fruit is extremely small, as it appears that only six grains were obtained by Dr. Clutterbuck from forty of the cucumbers. The plant might be raised in this country.

"Elaterium is sold in small, thin cakes, or fragments. of a greenish colour, and a bitter and somewhat acrid taste. It is liable to vary in strength, according to the mode of its preparation. If the juice has been extracted with much pressure, the sediment contains portions of the fruit which are comparatively inactive, and which, of course, tend to lessen its activity. In selecting elaterium, those specimens which have a very dark colour, are compact and heavy, and break with a shining resinous fracture, are to be rejected as

"This drug is one of the most violent cathartics. It was employed by the ancients as a hydragogue in dropsy, in a form not dissimilar to that used at the present day. It was also used by the Arabians, and in more modern times by Boerhaave, Sydenham, and in more modern times by Boechaave, Sydenham, and Lister. Quite recently it has been highly recommended in dropsy by some distinguished English physicians, and their practice has been successfully imitated in this country; although the great uncertainty of its operation has repeatedly caused it to be abandoned. It has the peculiar property of not only purging, but at the same time exciting a febrile action, which Lister describes as attended with a throbbing that is felt to the fingers' ends. Orfila found that a second of the property of the property of the second of the property of the second of t that is not to the ingers ends. Orbita found that a large dose, given to a doc, brought on inflammation of the stomach, but when injected in two cases into the cellular texture of the thigh, the rectum was the only part of the canal which became inflamed. Hence he concludes, that the medicine has some peculiar action

on that organ.
"The uncertainty arising from the different prepa-"The uncertainty arising from the different preparations of this medicine may be inferred from the circumstance, that Fallopius gave it in doses of a drachm, while Dr. Clutterbuck found one-eighth of a grain to purge violently. The strength of any particular parcel ought always to be tested by small doses, before it is ventured on in any considerable quantity. Of the article imported into this country, I have given from one to two grains in a pill three times a day, without any 320

Med. A.]
ELATHERIA. A name for the cascarilla bark.
ELATHN. The active principle of elaterium. See ELATIN. The ac

momorated etacerum.

ELATINE. (From ελα/των, smaller, being the smaller species.) See Antirrhinum etatine.

ELATIO. Elevated, exalted. This term is applied in Good's Nosology, to a species of the genus Alusio, to designate mental extravagance.

ELCO'SIS (From .) ELLO'SIS. (From ελκος, an ulcer.) A disease attended with feelid, carious, and chronic ulcers. The term is seldom used.

ELDER. See Sambucus.

ELDER, dwarf. See Sambucus Ebulus.

ELECAMPANE. See Inula helenium.

ELECTIVE. That which is done, or passes, by

ELECTIVE. That Which is done, or passes, by election.

Elective affinity, double. See Affinity double.

Elective attraction. See Affinity.

Elective attraction, double. See Affinity double.

ELECTRICITY. (Electricitas; from electrum, ηλεκτρον, from ηλεκ7ρον, the sun, because of its bright shining colour; or from ελκο, to draw, because of its magnetic power.) A property which certain bodies possess when rubbed, heated, or otherwise excited, whereby they attract remote bodies, and frequently emit sparks or streams of light. The ancients first observed this propetty in amber, which they called Electrum, and hence arose the word electricity.

"If a piece of sealing-wax and of dry warm flannel be rubbed against each other, they both become capable of attracting and repelling light bodies. A dry and warm sheet of writing-paper, rubbed with India rubber, or a tube of glass rubbed upon sik, exhibit the same phenomena. In these cases, the bodies are said to be electrically excited; and when in a dark room,

to be electrically excited; and when in a dark room, to be electrically excited; and when in a dark room, they always appear luminous. If two pith-balls be electrified by touching them with the sealing-wax, or with the flannel, they repel each other; but if one pith-ball be electrified by the wax, and the other by the flannel, they attract each other. The same applies to the glass and silk; it shows a difference in the electrical contents. cities of the different bodies, and the experiment leads to the conclusion, that bodies similarly electrified repel each other; but that when dissimilarly electrified, they attract each other

The term electrical repulsion is here used merely to denote the appearance of the phenomenon, the separation being probably referrible to the new attractive power which they acquire, when electrified, for the air and other surrounding bodies.

If one ball be electrified by sealing-wax rubbed hy flannel, and another by silk rubbed with glass, those balls will repel each other; which proves that the electricity of the silk is the same as that of the sealing-

electricity of the silk is the same as that of the sealing-wax. But if one ball be electrified by the sealing-wax and the other by the glass, they then attract each other, showing that they are oppositely electrified.

These experiments are most conveniently performed with a large downy feather, suspended by a silken thread. If an excited glass tube be brought near it, it will receive and retain its electricity; it will be first attracted and then repelled; and upon re-exciting the tube, and again approaching it, it will not again be attracted, but retain its state of repulsion; but upon approaching it with excited sealing-wax, it will instantly be attracted, and remain in contact with the wax till it has acquired its electricity, when it will be repelled; it has acquired its electricity, when it will be repelled, and in that state of repulsion it will be attracted by the glass. In these experiments, care must be taken that the feather remains freely suspended in the air, and touches nothing capable of carrying off its elec-

The terms vitreous and resinous electricity were applied to these two phenomena; but Franklin, observing that the same electricity was not inherent in serving that the same electricity was not inherent in the same body, but that glass sometimes exhibited tho same phenomena as wax, and vice vered, adopted another term, and instead of regarding the phenomena as dependent upon two electric fluids, referred them to the presence of one fluid, in excess in some cases, and in deficiency in others. To represent these states, he used the terms plus and minus, positive and negative. When glass is rubbed with silk, a portion of electricity leaves the silk, and enters the glass; it becomes po-

eitive, therefore, and the silk negative: but when sealing-wax is rubbed with fiannel, the wax loses, and the flatnel gains; the former, therefore, is negative, and the latter positive. All bodies in nature are thus regarded as containing the electric fluid, and when its equilibrium is disturbed, they exhibit the phenomena just described. The substances enumerated in the following table become positively electrified when rubbed with those which follow them in the list; but with those which precede them they become negatively electrical.—But. Tealit de Phunique, tom ij. D. \$20. electrical.—Biot, Traité de Physique, tom ii. p. 220. Cat's-skin. Paper.

Polished glass. Silk. Woolen cloth. Gum lac Feathers. Rough glass.

Feathers. Rough glass.

Very delicate pith-balls, or strips of gold leaf, are usually employed in ascertaining the presence of electricity; and by the way in which their divergence is effected by glass or scaling-wax, the kind or state of electricity is judged of. When properly suspended or mounted for delicate experiments, they form an electrometer or electroscope. For this purpose, the slips of gold leaf are suspended by a brass cap and wire in a glass cylinder: they hang in contact when unelectrified, but when electrified they diverge.

When this instrument, as usually constructed, becomes in a small degree damp, its delicacy is much diminished, and it is rendered nearly useless.

The kind of electricity by which the gold leaves are diverged may be judged of by approaching the cap of the instrument with a stick of excited scaling-wax; if it he negative, the divergence will increase; if positive,

the instrument with a suck of excited scaling-wax; it is he neg ative, the divergence will increase; if positive, the leaves will collapse, upon the principle of the mutual annihilation of the opposite electricities, or that bodies similarly electrified repel each other, but that when dissimilarly electrified, they become mutually

Some bodies suffer electricity to pass through their Some bodies suffer electricity to pass through their substance, and are called conductors. Others only receive it upon the spot touched, and are called non-conductors. The former do not, in general, become electrified by friction, and are called non-electrics: the latter, on the contrary, are electrics, or acquire electricity by friction. They are also called neutlators. The metals are all conductors; dry air, glass, sulphur, and resins, are non-conductors. Water, damp wood, spirit of wine, damp air, and some oils, are imperfect conductors.

conductors.

Rarified air admits of the passage of electricity; so does the Jarricellian vacuum; hence, if an electrified body be placed under the receiver of the air-pump, it loses its electricity during exhanstion. So that the air, independent of its non-conducting power, appears to influence the retentive properties of bodies, in respect to electricity, by its pressure.

There appears to be no constant relation between the state of hories and their conducting powers: among relies weather no conductors.

solids, metals are conductors; but gums and resins are non-conductors; among liquids, strong alkaline acid, and saline solutions, are good conductors; pure water is an imperfect conductor, and oils are non-conductors: solid wax is almost a non-conductor; but when melted a good one.

Conducting powers belong to bodies in the most op-

a good one.
Conducting powers belong to bodies in the most opposite states; thus, the flame of alkohol and ice are equally good conductors. Glass is a non-conductor when cold, but conducts when red-hot: the diamond is a non-conductor; but pure and well-burned charcoal is among the best conductors.

There are many mineral substances which show signs-of electricity when heated, as the tournalin, topaz, diamond, boracite, &c., and in these bodies the different surfaces exhibit different electrical states.

Whenever one part of a body, or system of bodies, is positive, another part is invariably negative; and these opposite electrical states are always such as exactly to neutralize each other. Thus, in the common electrical machine, one conductor receives the electricity of the glass-cylinder, and the other that of the silk-rubber, and the former conductor is positive, and the latter negative; but, if they be connected, all electrical phenomena cease. trical phenomena ceas

Electricians generally employ the term quantily to indicate the absolute quantity of electric power in any body, and the term intensity. to signify its power of passing through a certain stratum of air, or other ill-conducting medium.

If we suppose a charged Leyden phial to furnish a spark, when discharged, of one inch in length, we should find that another uncharged Leyden phial, the should find that another uncharged Leyden phial, line inner and outer coating of which were communicated with those of the former, would, upon the same quantity of electricity being thrown in, reduce the length of the spark to half an inch, here the quantity of electricity remaining the same, its intensity is diminished by one-half, by its distribution over the larger surface. It is obvious that the extension of surface alluded to in the last paragraph will be attended with a greater superficial exposure to the unelectrified air; and hence it spicit he exposeted that a similar dissimiture of in

it might be expected that a similar diminution of in tensity would result from the vicinity of the electrified surface to the ground, or to any other body of sufficient surface to the ground, or to any other body of sufficient magnitude in its ordinary state. That this is the case, may be shown by diverging the leaves of the gold leaf electrometer, and in that state approaching the instrument with an uninsulated plate, which, when within half an inch of the electrometer plate, will cause the leaves to collapse; but, on removing the uninsulated plate, they will again diverge, in consequence of the electricity regaining its former intensity. The same flat as shown by the condensing electrometer.

electricity regaining its former intensity. The same fact is shown by the condensing electronieter.

The power of the Leyden jar is proportioned to its surface; but a very large jar is inconvenient and difficult to procure; the same end is attained by arranging several jars, so that by a communication existing between all their interior coatings, their exterior being also united, they may be charged and discharged as one jar. Such a combination is called an electrical battery, and is useful for exhibiting the effect of accumilated electricity.

mulated electricity

mulated electricity.

The discharge of the battery is attended by a considerable report, and if it be passed through small animals, it instantly kills them; if through fine metallic wires, they are ignited, melted, and burned; and gunpowder, cotton sprinkled with powdered resin, and a variety of other combustibles, may be inflamed by the same means

There are many other sources of electricity than ose just noticed. When glass is rubbed by mercury, those just noticed. When glass is rubbed by mercury, it becomes electrified; and this is the cause of the luminous appearance observed when a barometer is agitated in a dark room, in which case flashes of light are seen to traverse the empty part of the tube. Even the friction of air upon glass is attended by electrical excitation: for Wilson found, that by blowing upon a dry plate of glass-with a pair of bellows, it acquired a positive electricity. Whenever bodies change their forms, their electrical states are also altered. Thus, the conversion of water into vapour, and the congelathose just noticed. the conversion of water into vapour, and the congela-tion of melted resins and sulphur are processes in which electricity is also rendered sensible.

which electricity is also rendered sensible.

When an insulated plate of zinc is brought into contact with one of copper or silver, it is found, after removal, to be positively electrical, and the silver or copper is left in the opposite state.

The most oxidisable metal is always positive, in relation to the least oxidisable metal, which is negative, and the more opposite the metals in these respects the greater the electrical excitation; and if the metals he placed in the following order, each will become positive by the contact of that which proceeds it, and acceptive he the contact of that which proceeds it. negative by the contact of that which follows it; and the greatest effect will result from the contact of the most distant metals.

Mercury. Platinum. Lead. Gold. Copper. Tron

If the nerve of a recently killed frog be attached to a silver probe, and a piece of zinc be brought into the contact of the muscular parts of the animal, victors convulsions are produced every time the metast thus connected are made to touch each other. Exactly the

convuisions are produced very time. Exactly the same effect is produced by an electric stark, or the discharge of a very small Leyden-phis.

If a piece of zine be placed usen the tongue, and a piece of silver under it, a pesuliar sensation will be perceived everytime the two metals are made to touch. In these cases the chanical properties of the metals are observed to be affected. If a silver and zine wire be put into a wise glass full of ditute sulphuric acid, the zine wire will only evolve gas; but upon bringing the two wires in contact with each other, the silver will also copiously produce air bubbles.

If a number of alterations be made of copper or allege.

ver leaf, zinc leaf, and thin paper, the electricity excited by the contact of the metals will be rendered evident to the common electrometer.

dent to the common electrometer.

If the same arrangement be made with the paper moistened with brine, or a weak acid, it will be found, on bringing a wire communicating with the last copper plate into contact with the first zinc plate, that a spark is perceptible, and also a slight shock, provided the number of alternations be sufficiently numerous. This

is the voltaic apparatus.

Several modes of constructing this apparatus have Several modes of constructing this apparatus have been adopted, with a view to render it more convenient or active. Sometimes double plates of copper and zinc soldered together, are cemented into wooden troughs in regular order, the intervening cells being filled with water, or saline, or acid solutions.

Another form consists in arranging a row of glasses,

Another form consists in arranging a row of glasses, containing dilute sulphuric acid, in each of which is placed a wire, or plate of silver, or copper, and one of ziac, not touching each other, but so connected by metallic wires, that the zinc of the first cup may communicate with the copper of the second; the zinc of the second with the copper of the third; and so on throughout the series

When the poles of the Voltaic apparatus are connected by a steel wire, it requires magnetic properties, and if by a platinum, or other metallic wire, that wire exhibits numerous magnetic poles, which attract and repel the common magnetic needle. This very curious fact was first observed by Professor Oersted, of Copen-

On immersing the wires from the extremes of this apparatus into water, it is found that the fluid suffers decomposition, and that oxygen gas is liberated at the positive wire or pole, and hydrogen gas at the negative

All other substances are decomposed with similar phenomena, the inflammable element being disengaged at the negatively electrical surface; hence it would appear, upon the principle of similarly electrified bodies repelling each other, and dissimilarly electrified bodies attracting each other, that the inherent or natural electrical state of the inflammable substances is ral electrical state of the inflammable substances is positive, for they are attracted by the negative or oppositely electrified pole; while the bodies, called supporters of combustion, or acidifying principles, are attracted by the positive pole, and, therefore, may be considered as possessed of the negative power. When bodies are thus under the influence of electrical decomposition, their usual chemical energies are suspended, and some very curious phenomena are ob-

suspended, and some very curious phenomena are ob-

The most difficult decomposable compounds may be thus resolved into their component parts by the electrical agency; by a weak power the proximate ele-ments are separated, and by a stronger power these

are resolved into their ultimate constituents.

All bodies which exert powerful chemical agencies upon each other when freedom of motion is given to their particles, render each other oppositely electrical when acting as masses. Hence Sir H. Davy, the great and successful investigator of this branch of chemical pillosophy, has supposed that electrical and chemical phenomena, though in themselves quite distinct, may be dependent on one and the same power, acting in the former case upon masses of matter, in the other upon

The power of the Voltaic apparatus to communicate divergence to the electrometer, is most observed when it is well insulated, and filled with pure water; but its power of producing ignition and of giving shocks, and of producing the other effects observed when its poles are connected, are much augmented by the interposition of dilute acids, which at chemically upon one of the place; here the insulation is interfered with by the productiva of vapour, but the quantity of electricity is much baseased, a circumstance which may, perhaps, be referred to the increase of the positive energy of the most oxidable metal by the contact of the acid. In experiments based with the great battery of the Royal Institution, it has been found that 120 plates rendered active by a mixture of one part of nitric acid, and three of water, produces effects equal to 480 plates rendered active by one part of nitric acid, and three of water. The power of the Voltaic apparatus to communicate and fifteen of water

In the Voltaic pile, the intensity of the electricity increases with the number of alternations, but the

quantity is increased by extending the surface of the plates. Thus, if a battery, composed of thirty pairs of plates, two inches square, be compared with another of plates, two inclues square, be compared with another battery of thirty pairs of twelve inches square charged in the same way, no difference will be perceived in their effects upon bad or imperfect conductors; their nowers of decomposing water, and of giving shocks, will be similar; but upon good conductors the effects of the large plates will be considerably greater than those of the small: they will ignite and fuse large quantities of platinum wire, and produce a very brilliant spark between charcoal points. The following experiment well illustrates the different effects of quantity and intensity in the Voltaic apparatus. Immerse the platinum wires connected with the extremity of a charged battery composed of twelve-inch plates into water, and it will be found that the evolution of gas is nearly the same as that occasioned by a similar number of two-inch plates. Apply the moist-

ELE

similar number of two-inch plates. Apply the moist-ened fingers to the wires, and the shock will be the same as if there were no connexion by the water. same as if there were no connexion by the water. While the circuit exists through the human body and the water, let a wire attached to a thin slip of charcoal he made to connect the poles of the battery, and the charcoal will become vividly ignited. The water and the animal substance discharge the electricity of a surface, probably, not superior to their own surface of contact with the metals; the wires discharge all the residual electricity of the plates; and if a similar experiment be made on plates of an inch square, there will scarcely be any sensation when the hands are made to connect the ends of the battery, a circuit being previously made through water; and no spark, when charcoal is made the medium of connexion, imperfect: conductors having been previously applied. perfect conductors having been previously applied. These relative effects of quantity and intensity were These relative effects of quantity and intensity were admirably illustrated by the experiments instituted by Children, who constructed a battery, the plates of which were two feet eight inches wide, and six feet high. They were fastened to a beam, suspended by counterpoises, from the ceiling of his laboratory, so as to be easily immersed into, or withdrawn from the cells of acid. The effects upon metallic wires, and

cells of acid. The effects upon metallic wires, and perfect conductors, were extremely intense; but upon imperfect conductors, such as the human body, and water, they were feeble.—Phil. Trans. 1815, p. 363.

When the extremes of a battery composed of large plates are united by wires of different metals, it is found that some are more easily ignited than others, a circumstance which has been referred to their conducting powers: thus platinum is more easily ignited than silver, and silver than zinc. If the ignition be supposed to result from the resistance to the passage of electricity, we should say that the zinc conducted. of electricity, we should say that the zinc conducted better than silver, and the silver than platinum.

An important improvement has been suggested in the construction of the Voltaic apparatus, by Dr. Wollaston, (Annals of Philosophy, Sept. 1815.) by which great increase of quantity is obtained, without inconvenient augmentation of the size of the plates; it convenient augmentation of the size of the plates; it convenient augmentation of the size of the plates; it convenient augmentation of the size of the plates. sists in extending the copper plate, so as to oppose it to every surface of the zinc.

With the single pair of plates, of very small dimensions, constructed upon this principle, Dr. Wollaston succeeded in fusing and igniting a fine platinum wire. This is the most economical and useful form of the Voltaic apparatus; certainly, at least, it is so for all those researches in which there is an occasional demand for quantity as well as intensity of electricity. The theory of the Voltaic pile is involved in many difficulties. The original source of electricity appears to depend upon the contact of the metals, for we know that a plate of silver and a plate of sinc, or of any other difficultiy and easily oxidisable metals, become negative and positive on contact. The accumulation must be referred to induction, which takes place in the elective and positive of contact. The accommands must be referred to induction, which takes place in the electrical column, through the very thin stratum of air, or paper, and through water, when that fluid is interposed paper, and through water, when that fluid is interposed between the plates. Accordingly, we observe, that the apparatus is in the condition of the series of conductors, with interposed air, and of the Leyden phials. When the electric column is insulated, the extremities exhibit feeble negative and positive powers, but if either extremity be connected with the ground, the electricity of its poles or extremities is greatly increased, as may be shown by the increased divergence of the leagues of the electrometer which then ensure. leaves of the electrometer which then ensues.

As general changes in the form and constitution of natter are connected with its electrical states, it is objusted an image of the continually active in nature. Its effects are exhibited on a magnificent scale in the thunder-storm, which results from the accumulation of electricity in the clouds, as was first experisentally demonstrated by Dr. Franklin, who also first howed the advantage of pointed conductors as safe and the conducting of t matter are connected with its electrical states, it is obvious that electricity must be continually active in navious that electricity must be continually active in na-ture. Its effects are exhibited on a magnificent scale in the thunder-storm, which results from the accumu-lation of electricity in the clouds, as was first experi-mentally demonstrated by Dr. Franklin, who also first showed the advantage of pointed conductors as safe-guards to buildings. In these cases, the conducting rod, or rods, should be of copper, or iron, and from half to three-fourths of an inch diameter. Its upper end should be elevated three or four feet above the highest part of the building, and all the metallic parts of the roof should be connected with the rod, which should be perfectly continuous throughout, and passing down the side of the building, penetrate several feet below its foundation, so as always to be immersed in a moist stratum of soil, or if possible, into water. The leaden water pipes attached to houses, often might be made to answer the purpose of conductors, especially when to answer the purpose of conductors, especially when thick enough to resist fusion.

During a thunder-storm the safest situation is in the middle of a room, at a distance from the chimney, and mudule of a room, at a distance from the chilines, and standing upon a woollen rug, which is a nonconductor. Blankets and feathers being nonconductors, bed is a place of comparative safety, provided the bell-wires are not too near, which are almost always method in houses struck by lightning. When out of doors, it is dangerous to take shelter under trees: the safest situation is within some yards of them, and upon the

dryest spot that can be selected.

The discharge of electricity in a thunder-storm is The discharge of electricity in a thunder-storm is cometines only from cloud to cloud; sometimes from the earth to the clouds; and sometimes from the clouds to the earth; as one or the other may be positive or negative. When aqueous vapour is condensed, the clouds formed are usually more or less electrical; and the earth below them being brought into an opposite state, by induction, a discharge takes place when the clouds approach within a certain distance, constituting likely and the industrian of the air produced by lightning; and the indulation of the air, produced by the discharge, is the cause of thunder, which is more or less latense, and of longer or shorter duration, ac-cording to the quantity of air acted upon, and the dis-tance of the place, where the report is heard from the point of the discharge. It may not be uninteresting to give a further illustration of this idea. Electrical effects take place in no sensible time. It has been found that a discharge through a circuit of four miles is instantaneous; but sound moves at the rate of about is instantaneous; but sound moves at the rate of about twelve miles a minute. Now, suppose the lightning to pass through a space of some miles, the explosion will be first heard from the point of the air agitated nearest to the spectator: it will gradually came from the more distant parts of the course of electricity, and last of all, will be heard from the remote extremity, and the different degrees of the agitation of the air, and likewise the difference of the distance, will account for the difference of the distance, will account for the different intensities of the sound, and its apparent reverberations and changes.

In a violent thunder-storm, when the sound instartly

me ayourn under sorm, when the sound instance are in some danger; when the interval is a quarter of a minute, they are secure.

A variety of electrical apparatus has been devised to illustrate the operation of conductors for lightning, and the advantage of points over bells; the simplest consists of a model of a house having acconductor with and the advantage of points over basis, the sunjuest consists of a model of a house having a conductor with a break in it, in which some inflammable matter should be placed; the lower end of the conductor should be communicated with the exterior of a charged Leyden phial, the knob of which, brought over its upper end, will then represent a thunder cloud. If the conductor be pointed, it will be slowly discharged, if surrounded by a ball, there will be an explosion, and the combustibles probably inflamed.

The corruscations of the discrete breaks are also probably electrical, and much resemble flashes of electric light traversing rarefied air. The water-spout may be referred to the same source, and is probably the result of the operation of a weakly electrical cloud, at an insconsiderable electrical state: and the attraction of the lower part of the cloud, for the surface of the water, may be the immediate cause of this extraordinary phenomenon.

In the gymnotus, or electric eel, and in the torpedo,

In the gymnotus, or electric eel, and in the torpedo,

succeeded by debility and death.

That arrangements of different organic substances are capable of producing electrical effects, has been shown by various experimentalists. If the hind-legs of a frog be placed upon a glass plate, and the crural nerve dissected out of one made to communicate with another, it will be found on making occasional contacts with the remaining crural nerve, that the limbs of the animal will be agitated at each contact. These circumstances have induced some physiologials to suppose, that electricity may be concerned in some of the most recondite phenomena of vitality, and Dr. Wollaston, Sir E. Home, and mysetf, have made some experiments tending to confer probability on this idea.

We have as yet no plausible hypothesis concerning the cause of electrical phenomena, though the subject has engaged the attention of the most eminent philosophers of Europe. They have been, by some, referred to the presence of a peculiar fluid existing in all matter, and exhibiting itself by the appearances which have been described wherever its equilibrium is disturbed, presenting negative and positive electricity, when deficient, and when redundant. Others have plausibly argued for the presence of two fluids, distinct from each other. Others have considered time effects

passibly agate for the presence of two minus, quanti-from each other. Others have considered the effects as referrible to peculiar exertions of the attractive powers of matter, and have regarded the existence of any distinct fluid, or form of matter, to be as unnecessary to the explanation of the phenomena, as it is in the question concerning the cause of gravitation.

When the flame of a candle is placed between a positive and negative surface, it is urged towards the latter; a circumstance which has been explained upon the supposition of a current of electrical matter passing from the positive to the negative pole; indeed, it has been considered as demonstrating the existence of such a current of matter. But if the flame of phosphorus be substituted for that of a candle, it takes an opposite direction; and instead of being attracted towards the negative, it bends to the positive surface. It has been shown that inflammable bodies are always attracted by negative surfaces; and acid bodies, and those in which the supporters of combustion prevail, are attracted by positive surfaces. Hence the flame of the candle throwing off carbon, is directed to the negative pole, while that of phosphorus forming acid matter goes to the positive, consistently with the ordinary laws of electro-chemical attraction.

There are other experiments opposed to the idea that electricity is a material substance. If we discharge a Leyden phind through a quire of paper, the perforation the supposition of a current of electrical matter pass-

electricity is a material substance. If we discharge a Leyden phial through a quire of paper, the perforation is equally burred upon both sides, and ifor upon the negative side only, as would have been the case if any material body had gone through in that direction. The power seems to have come from the centre of the paper, as if one half of the quire had been attracted by the positive, and the other by the negative surface.

When a pointed metallic wire is presented towards the conductor of the electrical machine, in a darkened room, a star of light is observed when the conductor is nositive, but a brush of light when it is negative.

positive, but a brush of light when it is negative; a circumstance which has been referred to the reception of the electric fluid in the one case, and its escape in the other. In the Voltaic discharge the same appearances are evident upon the charcoal point; rays appearing to diverge from the negative conductor, while from the positive a spot of bright light is perceptible. But these affections of light can scarcely be considered. as indicating the omission, or reception of any specific

The efficacy of electricity in the cure of several diseases has been supported by many very respectable authorities, especially in paralytic diseases. It considerably augments the circulation of the blood, and excites the action of the absorbents."—Brande's Che-

mistry.

ELECTRO-MAGNETISM. The name given to a class of very interesting phenomena, first observed by Oersted, of Copenhagen, in the winter of 1819-20, and which have since received great illustration from the

facts.

Let the opposite poles of a voltaic battery be connected by a metallic wire, which may be left of such length as to suffer its being bent or turned in various directions. This is the conjunctive wire of Oersted. Let us suppose that the rectilinear portion of this wire is extended horizontally in the line of the magnetic meridian. If a freely suspended compass-needle be now introduced, with its centre under the conjunctive wire, the needle will instantly deviate from the magnetic meridian; and it will decline towards the usest, under that part of the conjunctive wire which is nearest the negative electric pole, or the copper and of the

under that part of the conjunctive wire which is nearest the negative electric pole, or the copper end of the voltaic apparatus. The amount of this declination depends of the strength of the electricity, and the sensibility of the needle. Its maximum is 90°.

We may change the direction of the conjunctive wire, out of the magnetic meridian, towards the east or the west, provided it remains above the needle, and parallel to its plane, without any change in the above result, except that of its amount. Wires of platinum, gold, silver, brass, and iron, may be equally employed; nor does the effect cease, though the electric circuit be partially formed by water. The effect of the conjunctive wire takes place across plates of glass, metal, wood, water, resin, pottery, and stone.

If the conjunctive wire be disposed horizontally bemeath the needle, the effects are of the same nature as those which occur when it is above it; but they operate

those which occur when it is above it; but they operate in an inverse direction; that is to say, the pole of the needle under which is placed the portion of the con-junctive wire which receives the negative electricity of the apparatus, declines in that case towards the

To remember these results more readily, we may To remember these results more readily, we may employ the following proposition: The pole, above which the negative electricity enters, declines towards the west; but if it enters beneath it, the needle declines towards the kast.

If the conjunctive wire (always supposed horizontal) is slowly turned about, so as to form a gradfally in the declines to the declines

tal) is slowly turned about, so as to form a gradually increasing angle with the magnetic meridian, the declination of the needle increases, if the movement of the wire be towards the line of position of the disturbed needle; it diminishes, on the contrary, if it recede from its position.

When the conjunctive wire is stretched alongside of the needle in the same horizontal plane, it occasions no declination either to the east or west; but it causes it merely to incline in a vertical line, so that the pole adjoining the negative influence of the pile on the wire dips when the wire is on its west side, and rises

when it is on the east.

If we stretch the conjunctive wire, either above or beneath the needle, in a plane perpendicular to the magnetic meridian, it remains at rest, unless the wire be very near the pole of the needle; for, in this case, it rises when the entrance takes place by the west part of the wire, and sinks when it takes place by the east

of the wire, and sinks when it takes place by the east part of the wire, and sinks when it takes place by the east part.

When we dispose the conjunctive wire in a vertical line opposite the pole of the needle, and make the upper extremity of the wire receive the electricity of the negative end of the battery, the pole of the needle moves towards the cass; but if we place the wire opposite a point between the pole and the middle of the needle, it moves to the west. The phenomena are presented in an inverse order, when the upper extremity of the conjunctive wire receives the electricity of the positive side of the apparatus. It appears from the preceding facts, says Oersted, that the electric conflict (action) is not enclosed within the conducting wire, but that it has a pretty extensive sphere of activity round it. We may also conclude from the observations, that this conflict acts by revolution; for without this supposition we could not comprehend how the same portion of the conjunctive wire, which, placed beneath the magnetic pole, carries the needle towards the east, when it is placed above this pole, should carry it towards the west. But such is the nature of the circular action, that the movements which it produces take place in directions precisely contrary to the two extremities of the same diameter. It appears also, that the circular movement, ameter. It appears also, that the circular movement,

labours of Ampère, Arago, Sir H. Davy, Wollaston, Faraday, de la Rive, and several other philosophers. The following is a short outline of the fundamental facts.

Let the opposite poles of a voltaic battery be connected by a metallic wire, which may be left of such length as to suffer its being bent or turned in various directions. This is the conjunctive wire of Carsted.

ELECTRO'DES. (From ηλεκ?ρον, amber.) An epithet for intestinal fæces which shine like amber. ELECTROMETER. (From nask 700v, and usrpov,

See Electrici ELECTROSCOPE. (From ελεκ Τρον, and σκοπεω,

ELECTROSCOT En.
sec.) Sec Electricity.
ELECTRUM. Electropy. Amber.
ELECTRUM. Electropy. Amber.
ELECTRUM. Electropy.
The tincture of metals. ELECTRUM MINERALE. The tincture of metals. It is made of tin and copper, to which some add gold, and double its quantity of martial regulus of antimony melted together; from these there results a metallic mass, to which some chemists have given the name of electrum minerale. This mass is powdered and detonated with nitre and charcoal to a kind of scoria; it is powdered again while hot, and then digested in smittle of wine whence a tincture is obtained of a fine spirit of wine, whence a tincture is obtained of a fine

ELECTUA'RIUM. An electuary. The London Pharmacopeia refers those articles which were formerly called electuaries to confections. See Confectio.

ELECTUARIUM ANTIMONII. B. Electuarii senne, 3j; guaiaci gummi, hydrargyri cum sulphure, antimonii ppti. sing. 3s; syrupi simplicis q. s. misce. Of this electuary, from a drachm to about two drachms is given twice a day, in those cutaneous diseases which go under the general name of scorbutic. It is usually accompanied with the decoctions of elm bark or sarsaparilla.

ELECTUARIUM CASSIE. See Confectio cassie. ELECTUARIUM CATECHU. Confectio Japonica. Electuary of catechu, commonly called Japonic confection. Take of mimosa catechu, four ounces; kino, three ounces; cinnamos, categoria, four ounces; show, three ounces; cinnamon, nutmeg, each one ounce; opium diffused in a sufficient quantity of Spanish white wine one drachm and a half; syrup of red roses boiled wine one gracine and a nair; syrup or rea roses sonica to the consistence of honey, two pounds and a quarter. Reduce the solids to powder, and, having mixed them with the opium and syrup, make them into an electu-ary. A very useful astringent, and perhaps the most efficacious way of giving the catechu to advantage. Ten scruples of this electuary contain one grain of

ELECTUARIUM CINCHONÆ CUM NATRO. ppli. 3 [i., pulyer is cinchonæ une.: muclagin's gurmi arabici q. s. misce. In this composition, mucilage is preferred to syrup on account of its covering the taste of the bark much more advantageously. It should,

of the bark much more advantageously. It should, for this purpose, however, be made thin, otherwise it will increase the bulk of the electuary too much.

This remedy will be found an excellent substitute for the burnt sponge, the powers of which, as a remedy in scrofula, are known solely to depend on the proportion of natron contained in it. The does is two

portion of nation contained in it. The uses is well dracking, twice or thirde a day.

ELECTUARIUM OPLATUM. See Confectio opii.

ELELI'SPHACOS. (From λλελίζω, to distort, and σφακος, sage: so named from the spiral coiling of its leaves and branches.) A species of sage.

ELEMENT. Radical. First principles. A substance which can no further be divided or decomposed

stance which can no further be divided or decomposed by chemical analysis.

E'LEMI. (It is said this is the Ethiopian name.) Gum elemi. The parent plant of this resin is supposed to be an amyris. See Amyris elemifera.

ELENGI. A tree of Malabar, which is said to possess cordial and carminative properties.

ELEOCHRY SUM. (From nhos, the sun, and xpuros, gold: so called from its gold-like, or shining yellow appearance.) Goldilocks. See Gnaphalium

ELEOSELI'NUM (From elos, a lake, and oele-

200, parsley.) See Apium.
ELEPHANTIA. (From ελεφας, an lelephant: so called from the great enlargement of the body in this disorder.) See Elephantiasis.

ELEPHANTIA ARABUM. In Dr. Cullen's Nosology it is synonymous with elephantiasis. The term is, however, occasionally confined to this disease when it affects the feet.

ELEPHANTI'ASIS. (From elephant: so named from the legs of people affected with this disorder growing scaly, rough, and wonderfully large, at an advanced period, like the legs of an elephant.) Elephas: Elephantia: Lazari morbus vel malum. Elephas: Elephantia: Lazari morbus vel malum. Phannecus people decision to the dephant. It is known by the skin being thick, rough, wrinkly, unctuous, and void of hair, and mostly without the sense of feeling. It is said to be contagious. Cullen makes it a genus of disease in the class Cacheriae, and order Impetigines. Elephantiasis has generally been supposed to arise in consequence of some slight attack of fever, on the cessation of which the morbid matter falls on the leg, and occasions a distention and tumefaction of the

cessation of which the morbid matter falls on the leg, and occasions a distention and tumefaction of the limb, which is afterward overspread with uneven lumps, and deep fissures. By some authors it has been considered as a species of leprosy; but it often subsists for many years without being accompanied with any of the symptoms which characterize that disease.

of the symptoms which characterize that disease. It sometimes comes on gradually, without much previous indisposition; but more generally, the person is seized with a coldness and shivering, pains in the head, back, and loins, and some degree of nausea. A slight fever then ensues, and a severe pain is felt in one of the inguinal glands, which, after a short time, becomes hard, swelled, and inflamed. No suppuration, however, ensues; but a red streak may be observed running down the thigh from the swelled gland to the leg. As the inflammation increases in all the parts, the fever gradually abates; and, perhaps, after two or three days' continuance, goes off. It, however, returns again at uncertain periods, leaving the leg greatly swelled with varicose turgid veins, the skin rough and rugged, and a thickened membrana cellulosa. Scales appear also on the surface, which do not fall off, but are enlarged by the increasing thickness of the membranes; uneven lumps, with deep fissures, are formed, and the leg and foot become at last of an enormous size.

A person may labour under this disease many years A person may labour under this disease many years without finding much alteration in the general health, except during the continuance of the attacks; and perhaps the chief inconvenience he will experience is the enormous bulky leg which he drags about with him. The incumbrance has, indeed, induced many who have laboured under this disease to submit to an amputation; but the operation seldom proves a radical cure, as the other leg frequently becomes affected. Hilary observes, that he never saw both legs swelled at the same time. Instances where they have alike acquired a frightful and prodigious size, have, however, frequently fallen under the observation of other physicians.

ELEPHANTI'NUM EMPLASTRUM. A plaster described by Oribasius. Celsus describes one of the same name,

by Oriosaus.

but very different in qualities.

E'LEPHAS. (Eλεφας, the elephant.)

1. The name of an animal.

2. The name of a disease of the skin. See Elephantiasis.

3. Aqua fortis was so called in some old chemical

ELE'TTARI PRIMUM. The true amomum.

Elettaria cardamomum. Eletturia and amountum. See Elettaria cardamomum. ELETTA'RIA. (From elettari.) The name of a new genus of plants formed by Dr. Maton, to which the less cardamom is referred. Class, Monandria;

Order, Monogynia. ELETTARIA CARDAMONUM. ELETTARIA CARDAMOMUM. Cardamomum minus. Less or officinal cardamom. Amonum repens; or le cardamome de la côte de Malabay, of Sonnerat. Elettaria cardamomum, of Maton, in Act. Soc. Lin. The seeds of this plant are imported in their capsules or husks, by which they are preserved, for they soon lose a part of their flavour when freed from this covering. On being chewed, they impart a glowing aromatic warnth, and grateful pungency; they are supposed gently to stimulate the stomach, and prove cordial, carminative, and antispasmodic, but without that irritation and heat which many of the other spicy aromatics are apt to produce. Simple and compound spirkanus tinetures are prepared from them, and they are ordered as a spicy ingredient in many of the officinal compositions. Cardamomum minus.

ELEUTHE'RIA. See Croton cascarilla.

ELEVA'TIO. (From elevo, to lift up.) Elevation. Sublimation.

ELEVA'TOR. (From elevo, to lift up.)

1. A muscle is so called, the office of which is to lift up the part to which it is attached.

2. A chirurgical instrument, elevatorium, with which surgeons raise any depressed portion of bone, but chiefly those of the cranium.

ELEVATOR LABII INFERIORIS PROPRIUS. See Levator labii inferioris.

vator tant enferors. Elevator Labii superioris aleque nasi. Elevator Labicouni. See Levator anguli oris. Elevator Labicouni. See Levator labii superioris alæque nasi.

ELEVATOR OCULI. See Rectus superior oculi. ELEVATOR PALPEBRÆ SUPERIORIS. See Levator palpebræ superioris.

ELEVATOR SCAPULE. See Levator scapule. ELEVATO'RIUM. (From elevo, to lift up.) instrument to raise a depression in the skull.

instrument to raise a depression in the skull.

ELI'BANUM. See Juniperus lycia.

ELICHRY'SUM. (From nhos, the sun, and xovos, gold; so called from its gold-like, or shining yellow appearance.) See Gnaphalium stachas.

ELI'DRION. Mastich. A mixture of brass.

ELI'GMA. A linctus.

ELIOELI'NUM. See Eleoselinum.

ELIPTICUS. Eliptic. Applied to leaves and receptacles, which are of a somewhat oval form, but broader at each end; as in the leaf of the Convallaria majolis, and the receptacle of the Dorstenia drakenia.

ELIQUATION. An operation, by means of which a more fusible substance is separated from another, which is less fusible. It consists in the application of a degree of heat, sufficient to fuse the former, but not the latter.

[" If lead be heated so as to boil and smoke, it soon ["If lead be heated so as to boil and smoke, it soon dissolves pieces of copper thrown into it; the mixture when cold is brittle. The union of these two metals is remarkably slight; for upon exposing the mass to a heat no greater than that in which lead melts, the lead almost entirely runs off by itself. This process is called eliquation. The coarser sorts of lead, which owe their brittleness and granulated texture to an ad-mixture of cooper. throw it un to the surface on being

owe their brittleness and granulated texture to an admixture of copper, throw it up to the surface on being melted by a small heat."—Web. Man. of Chem. A.]
ELITHROI'DES. The vaginal coat of the testicle. See Elythroides and Testis.
ELIXA'TIO. (From elizo, to boil.) The act of seething or boiling.
ELIXIR. (From elekser, an Arabic word, signifying quintessence.) A term formerly applied to many preparations similar to compound tinctures. It is now very little employed.

very little employed.

Elizir of health. Elizir salutis. A term formerly applied to tincture of senna.

See Tinctura camphoræ ELIXIR PAREGORICUM.

ELIXIR PROPRIETATIS. A preparation like the compound tincture of aloes.
ELIXIR SACRUM. A tincture of rhubarb and aloes.
ELIXIR SALUTIS. See Tinctura senna.
ELIXIR STOMACHICUM. See Tinctura gentiana

composita.

composita.

ELINIVA'TIO. (From elizo, to boil, or from lizivium, lye.) The extraction of a fixed salt from vegetables, by an affusion of water. See Liziviation ELLAGIC ACID. (Acidum ellagicum; so hamed by Braconnot, by reversing the word galle.) The deposite which forms in infusion of nut-galls, left to itself, is not composed solely of gallic acid and a matter which solurs it. It contains, besides, a little galitself, is not composed solely of gallic acid and a matter which colours it. It contains, besides, a little gallate and sulphate of line, and a new acid, which was pointed out for the first time by Chevreuil, in 1815, an acid on which Braconnot made observations, in 1818, and which he proposed to call acid cllagic, from the word galle reversed. Probably this acid does not exist ready formed in nut-galls. It is insoluble; and, carrying down with it the greater part of the gallic acid, forms the yellowish crystalline deposite. But boiling water removes the gallic acid from the ellagic; whence the means of separating them from one and whence the means of separating them from one another. Ann. de Chim. et de Phys. ix. 181.

ELLEBORUM. See Helleborus and Veratrum.

ELM. See Ulmus.

Elm'Inthes. (From etles, to involve, from its contoitions.) A worm.

ELO DES. (From etles, a swamp.) A term given.

Contortions.) A worm.

ELO'DES. (From clos, a swamp.) A term given
to a sweating fever, from its great moisture.

ELONGA'TIO. (From closso, to lengthen out.) An
imperfect luxation, where the ligament is only lengthened, and the bone not put out of its socket.

ened, and the bone not put out of its socket.

ELOY, NICHOLAS FIRANCIS JOSEPH, was born at
Mons, in 1714, and died in 1788, having practised as a
physician with great ability and humanity. He had
the honour of attending Frince Charles of Lorraine.
He was a man of extensive learning, and, notwithstanding his professional avocations, was author of
eeveral publications. The principal of these, an Historical Medical Dictionary, was originally in two octavo
volumes; but in 1788, it appeared greatly improved
and enlarged in four volumes quarto. An Introduction
to Midwiery; a Memoir on Dysentery; Reflections on
the Use of Tea; and a Medico-Political Tract on Coffee: were likewise written by this author. The latter fee; were likewise written by this author. The latter work procured him the reward of a superb snuff-box from the estates of Hainault, inscribed "Ex dono

ELUTRIATION. (Elutriatio; from clutrio, to cleanse.) Washing. It is the pouring a liquor out of one vessel into another, in order to separate the lighter earthy parts, which are carried away while the heavier

metallic parts subside to the bottom.

ELU'VIES. (From eluo, to wash out.) The effluvium from a swampy place. Also the humour discharged in fluor albus.

charged in fluor albus.

ELUNA'TIO. (From eluzo, to put out of joint.) A
luxation, or dislocation.

ELYMAGRO'STIS. (From eluzes, the herb panic,
and ayongts, wild.) Wild panic.

ELY'MUS. Eluges. The herb panic, or panicum
of Dioscordies, but now the name of a new genus of
grasses, in the Linnean system.

ELY'OT, Sir Thoutas, was born of a good family
in Suffolk, about the beginning of the sixteenth century. Afterstudying at Oxford and improving binself tury. After studying at Oxford, and improving himself tury. After studying at Oxford, and improving himselv travelling, he was introduced at court; and Henry VIII. conferred upon him the honour of knighthood, and employed him in several embassies. He distinguished himself in various branches of learning, as well as by patronising learned men; and was generally beloved by his contemporaries for his virtues and accomplishments. complishments. He died in 1546, and was buried in Cambridgeshire, of which he had been sheriff. Among campringessine, of which he had been sheriff. Among other studies, he was partial to medicine, and made himself master of the ancient authors on that subject, though he never exercised the profession. He published a work about the year 1541, called "The Castell of Health," which was much admired, even by some of Health," which was much admired, even by some of the faculty: in this he is a strong advocate for temperance, especially in sexual pleasures. He also notices, that catarrhs were much more common than they had been forty years before; which he ascribes chiefly to free living, and keeping the head too much covered. He also wrote and translated several other works, but not on médical subjects:

ELYTROCE LE. (From Aurpow, the vagina, and Endry, a tumour.) A hernia in the vagina. See Hernia

vaginali

ELYTROI'DES. (Elytroides; from ελυτρον, a sheath, and ειδος, form.) Like a sheath. The tunica vaginalis is so called by some writers, because it in-

cludes the testis like a sheath

ELY'TRON. (From ελυω, to involve.) The vagina. A sheath. The membranes which involve the

gina. A sheath. The memoranes was gina and a sheath. The memoranes was ginal marrow are called \$\epsilon \lambda \sqrt{p} a.\$

EMACIATION. See Atrophia and Marasmus.

EMARGINATIO. (From emargino, to cleanse the edges.) The cleansing of the edges of wounds from scurf and filth.

Emarginate, nicked, that is, constant as the leaf

EMARGINATUS. Emarginate, nicked, that is, having a small acute notch at the summit; as the leaf of the bladder senna, Colutea arborescens, the petals

of the Allium rossum, and Agrostema flos jouis.

EMASCULA TUS. (From emasculo, to render impotent.) Having the testicles in the belly, and not fallen into the scroum.

EMBA MMA. (From εμβαπ/ω, to emerge in.) A medicated pickle to dip the food in.

EMBOLE. (From εμβαλλω, to put in.) The setting of a dislocated bone.

EMBOLUM. (From εμβαλλω, to cast out: 10 named because it ejects the sengen.) The penis. ENDRE (MA). (From εμβρεχω, to make wet.) A fluid application to any part of the body. EMBROCATIO. (From εμβρεχω, to moisten or soak in.). Embrocke. An embrocation. A fluid application to rub any part of the body with. Many use the term however, as synonymous with liminent. the term, however, as synonymous with liniment. The following embrocations are in general use.

Embrocatio adumnis. B. Aluminis 3 ij. Aceti,

spiritus vinosi tenuloris, sing. ibss. For chilblains and

diseased joints.

EMBROCATIO AMMONIÆ. R. Embrocationis ammoniæ accentis 3 ij. Aquæ ammoniæ puræ 3 ij. For sprains and bruises.

EMBROCATIO AMMONIÆ ACETATIS. B. Aquæ ammoniæ acetatæ. Solutionis saponis sing. 3 j M. For bruises with inflammation.

EMBROCATIO AMMONIÆ ACETATIS CAMPHORATA. R. EMBROCATIO AMMONIE ACETATIS CAMPHORATA. E-Solutionis saponis cum camphora, aque ammonie acctatæ sing. 3j. Aque ammonie puræ 3ss. For sprains and bruises. It is also frequently applied to disperse chilibiains which have not suppurated. It is said to be the same as Steer's opodeldoc

said to be the same as Steer's opodeldoc.

EMBROCATIO CANTHARIDIS CUM CAMPHORA. B.

Tinct, cantharidis. Spiritus camphore sing. 3 M.

This may be used in any case in which the object is
to stimulate the skin. The absorption of cantharides,
however, may bring on a stranguary.

EMBRYO. (From εμβροω, to bud forth.) 1. The
germ of a plant; called by Linneus the corculum.

See Corculum and Cotyledon.

2. The facts in altera is so called before the fifth

2. The factis in utero is so called before the fifth month of pregnancy, because its growth resembles that of the budding of a plant.

EMBRYOTHLA'STES. (From εμβρυον, the fœtus, and θλαω, to break.) Embryorectes. A crotchet or instrument for breaking the bones of a dead fœtus to pro-

EMBRYO'TOMY. (Embryotomia; from εμβουον, a feetus, and τεμνω, to cut.) The separating of any part of the feetus while in utero, to extract it.

EMBRYU'LCUS. (From εμβρυου, a fœtus, and ελκω, to draw.) A blunt hook or forceps, for drawing the child from the womb.

EMERALD. A beautiful genus of minerals, which

contains two species.

1. The prismatic emerald, Euclase of Hauy. This is of a green and sky-blue colour, and is found in Peru

2. Rhomboidal cmerald, of which there are two subspecies, the precious emerald and the beryl. The first is well known by its emerald green colour. The most beautiful emeralds come from Peru. As a gem, it is valued next to ruby.

["This mineral is by no means uncommon in the United States. It occurs in the primitive range, and particularly in granite, in which it is imbedded. In the State of Maine, it has been found remarkably clear and transparent, and in every respect resembling clear and transparent, and in every respect resembling the Siberian Beryl, particularly that discovered at Topsham by Professor Cleveland, of Brunswick College. The crystals are well defined hexaædral prisms, and are often imbedded in the smoky quartz which abound in the large-grained granite. In some instances, in point of colour, it equals the finest Peruvian emerald.

"At Chesterfield, in Massachusetts, it occurs in great abundance. Dr. J. F. Waterhouse, who has carefully examined this locality, informs us that crystals in

"At Considering in assaciants are, to clear in great abundance. Dr. J. F. Waterhouse, who has carefully examined this locality, informs us that crystals, in hexangular prisms, from an ounce and under to 6th. in weight, are found singly disseminated through the granite. They are of various dimensions, from a small size to that of a foot in diameter; their colour light green. The Chesterfield emerald greatly resembles that lately discovered in France. If the new earth glueine should be required for the arts or manufactures, this emerald would furnish it in abundance; as such is the quantity occurring at this place, that Dr. Waterhouse obtained upwards of 70th. within a very small space. The emerald occurs in other parts of Massachusetts. To the politeness of Dr. David Hunt, we are indebted for several specimens found by that indefatigable mineralogist, in the vicinity of Northampton and Goshen. ampton and Goshen

"At Haddam, in Connecticut, this mineral occurs in abundance; the crystals are from a very small size to

several inches in length; they are generally of a light yellowish-green, and sometimes of an amber colour, resembling topaz. Col. Gibbs has in his possession resembling topaz. Col. Gibbs has in his possession a crystal of a deep green an inch in diameter, and several in length, it bears a strong resemblance to the Peruvian emeraid. Mr. Mather, a young mineralogist of great promise, discovered one seven inches in length, by nine inches in the diagonal diameter: it is in the cabinet of Professor Silliman.

"New-York affords but few instances of the production of emeraid. It now and then, though rarely, occurs in the granite veins which traverse the gneigs.

occurs in the granite veins which traverse the gneiss on the island, about four miles from the city.

"The emerald is found in the vicinity of Philadelphia, and at Chester. These are the principal localities of this mineral in the United States, which have as yet come to our knowledge. As others occur, we shall with pleasure notice them."—Bruce's Min. Journal.

A.] EMERSUS. EMERSUS. (From emergo, to rise up or appear out of the water.) Raised above the water, as the upper leaves accompanying the flowers of the Merie-phyllum verticillatum, while its lower ones are de-

E'MERUS. Scorpion senna. A laxative. EMERY. A sub-species of rhomboidal corundum, found in quantities in the isle of Naxor, and at Smyr-na. Its fine powder, which is used for polishing hard minerals and metals, is made by trituration and elu-

EMESIA A. (From εμεω, to vomit.) Emesma;
The act of vomiting. Medicines which Emesis.

Emesses. The act of voluting, meanines which cause vomiting. EME TIC. (Emeticus; from  $\epsilon \mu \nu \omega$ , to vomit.) That which is capable of exciting vomiting, independently of any effect arising from the mere quantity of matter introduced into the stomach, or of any nauseous taste or flavour.

The susceptibility of vomiting is very different in different individuals, and is often considerably varied

by disease.

Emetics are employed in many diseases.

When any morbid affection depends upon, or is connected with, over-distention of the stomach, or the presence of acrid, indigestible matters, vomiting gives apeedy relief. Hence its utility in impaired appetite, acidity in the stomach, in intoxication, and where poisons have been swallowed

From the pressure of the abdominal viscera in vo-miting, emetics have been considered as serviceable in jaundice, arising from biliary calculi obstructing the

ducts.

The expectorant power of emetics, and their utility in catarrh and phthisis, have been ascribed to a similar

pressure extended to the thoracic viscera.

pressure extended to the intractic viscera. In the different varieties of febrile affections, much advantage is derived from exciting vomiting, especially in the very commencement of the disease. In high inflammatory fever it is considered as dangerous, and in the advanced stage of typhus it is prejudicial. Emetics given in such doses, as only to excite nausea, have been found useful in restraining hæmor-

Different species of dropsy have been cured by vomiting, from its having excited absorption. effect, perhaps, is owing the dispersion of swelled tes-ticle, bubo, and other swellings, which has occasion-ally resulted from this operation.

The operation of vomiting is dangerous, or hurtful, in the following cases: where there is determination of the blood to the head, especially in plethoric habits; in visceral inflammation; in the advanced stage of pregnancy; in hernia and prolapsus uterl; and wherever there exists extreme general debility. The frequent use of emetics weakens the tone of the stomach. A comptic should always be administered in An emetic should always be administered in the fluid form. Its operation may be promoted by drinking any tepid diluent, or bitter infusion.

The individual emetics may be arranged under two heads, those derived from the vegetable, and those from the mineral kingdom. From the vegetable kingdom are numbered ipecacuanha, seila maritima, au-dom are numbered ipecacuanha, seila maritima, au-themis nobilis, sinapis alba, asarum Europaum, nico-tianatabacum. From the mineral kingdom, antimony, the sulphates of zinc and copper, and the subacetate of copper. To these may be added ammonia and its lwdro-authburst.

Jydro-sulphuret.

EMETIN. Emetine. Digest ipecacuan root, first in ather and then in alkohol. Evaporate the alkoholic infusion to dryness, redissolve in water, and drop in acetate of lead. Wash the precipitate, and then diffusing it in water, decompose by a current of sulphuretted hydrogen gas. retted hydrogen gas. Sulphuret of lead falls to the bottom, and the emetin remains in solution. By eva-

bottom, and the emetin remains in solution. By evaporating the water, this substance is obtained pure. Emetin forms transparent brownish-red scales. It has no smell, but a bitter acrid taste. At a heat somewhat above that of boiling water, it is received into carbonic acid, oil, and vinegar. It affords no ammonia. It is soluble both in water and alkohol, but not in æther; and uncrystallizable. It is precipitated by protonitrate of mercury and corrosive sublimate, but not by tartar emetic. Half a grain of emetin acts as a powerful emetic, followed by sleep; six grains vomit violently, and produce stipor and death. The lungs and intestines are inflamed."—Pelletier and Marcradic. gendie.

EMETOCATHA'RTICUS. (From εμεω, to vomit, and καθαιρω, to purge.) Purging both by vomit and

EMINE'NTLÆ QUADRIGEMINÆ. See Tuber-

cula quadrigemina.

ENMENAGOGUE. (Emmenagogus; from εμμηνια,
ENMENAGOGUE. (Unique) Whatever possesses the meases, and aye, to move.) Whatever possesses the power of promoting that monthly discharge by the uterus, which, from a law of the animal economy, should take place in certain conditions of the female system. The articles belonging to this class may be referred to four ordres:-

1. Stimulating emmenagogues, as hydrargyrine and antimonial preparations, which are principally adapted for the young, and those with peculiar insensibility of

the uterus.

2. Irritating emmenagogues, as alocs, savine, and Spanish flies : chlorotic habits.

3. Tonic emmenagogues, as ferruginous prepara-tions, cold bath, and exercise, which are advanta-geously selected for the lax and phlegmatic.

 Antispasmodic emmenagogues, as as a fatida, castor, and pediluvia: the constitutions to which these are more especially suited are the delicate, the weak, and the irritable.

EMME'NIA. (From ev, in, and unv, a month.)

The menstrual flux.

EMO'LLIENT. (Emolliens; from emollio, to soften.) Possessing the power of relaxing the living and animal fibre, without producing that effect from any mechanical action. The different articles belonging to this class of medicines may be comprehended unde

the following orders:—

1. Humcetant emollients, as warm water, and tepid vapours, which are fitted for the robust and those in

the prime of life.

2. Relaxing emollients, as althma, malva, &c. These may be employed in all constitutions, while at the same time they do not claim a preference to others from any particular habit of body

Lubricating emollients, as bland oils, fat, and.

The same observation will hold of this order as

was made of the last mentioned.

4. Atonic emoltients, as optim and pediluvia. These are applicable to any constitution, but are to be preferred in habits where the effects of this class are re-

quired over the system in general.

EMPATHEMA. (Emma $\eta_5$ ; from  $\pi a \theta \eta \mu a$ , passio, affectic.) Ungovernable passion. A genus of disease in Good's Nosology. Class, Meurotica; Order,

It has three species, Empathema entonicum, atonicum, insane, and innumerable varieties.

Empet'ria. (From εν, and ωειρω, to endeavour.)

Professional experience

Professional experience.
EMPHERO MENUS. (From εμφερια; to bear.) Urine, or other substances which have a sediment.
EMPHLYSIS. (From εμ, in, and φλυσες, a vesicular tumour or eruption.) The name of a genus, ichorous exauthem, of Good's Nosology, which includes six species: Emphlysis smilaru : Δphtha ; Vaccenta; Varicella; Pemphigus; Erysipelas.
EMPHER-CYTEA. (From εμφαρα /ω, to obstruct.) Medicines winch, applied to the skin, shut up the

EMPHYMA. This term, applied by Good to a! genus of disease, Class, Eccritica; Order, Mesotica, of his arrangement, imports (in contradiction to Phyma, which, in his system, is limited to cutaneous tu-mours, accompanied with inflammation,) a tumour originating below the integuments, and unaccompanied with inflammation, at least in its commencement. It embraces three species, viz. Emphyma sarcoma: En-

EMPHYSE'MA. (Emphysema, atis, n.; from

EMPHYSE'MA. (Emphysema, atis, n.; from εμφυσαω, to inflate.) See Prawmatosis.

EMPIRIC. (Empiricus. Εμπαριως; from εν, in, and σκερα, experience.) One who practises the healing art upon experience, and not theory. This is the true meaning of the word empiric; but it is now applied, in a very opposite sense, to those who deviate from the line of conduct pursued by scientific and regular practitioners, and vend uostrums, or sound their own praise in the public naners.

gular practitioners, and vend nostrums, or sound their own praise in the public papers.

EMPLA'STIGA. (From εμπλαστω, to obstruct.) Medicines which, spread upon the skin, stop the porces.

EMPLA'STRUM. (Emplastrum, ε. n.; from εμπλαστω, to spread upon.) A plaster. Plasters are composed of unctuous substances, united either to powders or metallic oxides, &c. They ought to be of such a consistence as not to stick to the ingers when cold, but to become soft, so as to be spread out in a moderate degree of heat, and in that of the human body, to continue tenacious enough to adhere to the skin. They owe their consistence either to metallic oxides, especially those of lead, or to wax, resin, &c.

They are usually kept in rolls wrapped in paper, and spread, when wanted for use, upon thin leather; if the plaster be not of itself sufficiently adhesive, it. is to be surrounded at its margin by a boundary of resin plaster.

EMPLASTRUM AMMONIACI. Take of purified aumoniacum, five ounces; acetic acid, half a pint. Dissolve the ammoniacum in the acid, then evaporate the liquor in an iron vessel, by means of a water-bath, constantly stirring it, until it acquires a proper consistence. This plaster is now first introduced into the London Pharmacoposis; it adheres well to the skin, without intuitive, it call without conductive. without irritating it, and without producing inconve-

nience by its smell.

EMPLASTRUM AMMONIACI CUM BYDRARGYRO. Take EMPLASTROM AMMONIACI CUM HYDRARGYAC. I As of purified ammoniacum, a pound; purified mercury, three ounces; sulphuretted oil, a fluid drachm. Rub the mercury with the sulphurated oil until the globules disappear; then add by degrees the ammoniacum, previously melted, and mix the whole together. This composition is said to possess resolvent vir-tues; and the plaster is recommended with this view to be applied to nodes, tophs, indurated glands, and

STRUM ASAFŒTIDE. Emplastrum antihys-Plaster of asafætida. Take of plaster of EMPLASTRUM ASAFETIDE. semi-vitrified oxide of lead, asafætida, each two parts: galbanum, yellow wax, each one part. This plaster ta said to possess anodyne and antispasmodic virtues. It is, therefore, occasionally directed to be applied to the umbilical region in hysterical cases.

EMPLASTRUM CANTHARIDIS. Blistering-fly plaster.

Emplastrum vesicatorium. Take of blistering flies, in very fine powder, a pound; wax plaster, a pound and a half; prepared fat, a pound. Having melted the plaster and fat together, and removed them from the fire, a little before they become solid sprinkle in the blistering flies, and mix the whole together. See Blister and Cantharis.

EMPLASTRUM CERE. Wax plaster. EMPLASTRUM CREE. Dellow wax, prepared suet, of each three pounds; yellow resin, a pound. Melt them together and strain. This is a gently-drawing preparation, calculated to promote a moderate discharge from the blistered surface, with which intention it is mostly used. Where the stronger preparations irritate, this will be found in general to agree.

EMPLASTRUM CHIMINI: Clumin plaster. Take of

late, this will be found in general to agree.

EMPLASTRUM CUMINI: Cumin plaster. Take of cumin-seeds, caraway-seeds, bay-berries, of each three ounces; dried pitch, three pounds; yellow wax, three ounces. Having melted the dry pitch and wax together, add the remaining articles previously powdered, and mix. A warm stomachic plaster, which, when applied to the stomach, expels flatulency. To indolent serofilious tumours, where the object is to promote Supportation, this is an efficacional haster. suppuration, this is an efficacious plaster.

EMPLASTRUM GALBANI COMPOSITUM. Compound Galbanum plaster, formerly called emplastrum lithar-Galbanum plaster, formerly called emplostrum lithargyer composition and deachylon magnum cum gummi. Take of galbanum gum resin purified, eight ounces; lead plaster, three pounds; common turpentine, ten drachms; resin of the spruce fit, three ounces. Having melted the galbanum gum resin with the turpentine, mix in first the powdered resin of the spruce fit, and then the lead plaster, previously melted by a slow fire, and mix the whole. This plaster is used as a warm digestive and suppurative, calculated to promote maturation of indolent or scirzhous tumours, and to allay the nains of scistics, arthrodynia. &c. and to allay the pains of sciatica, arthrodynia, &c.

and to allay the pains of science, arthrodynia, &c.

EMPLASTRUM HYDRARGYRI. Mercurial plaster.

Emplastrum lithargyri cum hydrargyra. Take of
purified mercury, three ounces; sulphurated oil, a fluid
drachm; lead plaster, a pound. Rub the mercury with
the sulphurated oil, until the globules disappear; then
add by degrees the lead plaster, melted, and mix the

Whole.

EMPLASTRUM LADANI COMPOSITUM. Take of soft labdanum, three ounces; of frankineense, one ounce; cinnamon and expressed oil of mace, each half an ounce; essential oil of mini, one drachm: add to the frankincense, melted first, the labdanum a little hearth will be the one of the council of the counci ed, till it becomes soft, and then the oil of mace; after-ward mix in the cinnamon with the oil of mint, and beat them together into a mass, in a warm mortar, and keep it in a vessel well closed. This may be used with keep it in a vessel well closed. This may be used with the same intentions as the cumin-plaster, to which it is in no way superior, though composed of more expensive materials. Formerly, it was considered a very elegant stomach plaster, but is now dis-

EMPLASTRUM LITHARGYRI. See Emplastrum

EMPLASTRUM LITHARGYRI COMPOSITUM. See Emplastrum Galbani compositum. EMPLASTRUM LITHARGYRI CUM RESINA. See Em-

plastrum resinæ. EMPLASTRUM LYTTE. See Emplastrum cantha-

EMPLASTRUM OPH. Plaster of opium. Take of hard opium, powdered, half an ounce; resin of the spruce fir, powdered, three ounces; lead plaster, a pound. Having melted the plaster, mix in the resin of the spruce fir, and opium, and mix the whole. Opium is said to produce somewhat, though in a smaller degree, its specific effect when applied externally.

EMPLASTRUM PICIS COMPOSITUM. Compound pitch plaster. Emplastrum picis Burgundice. Take of dried pitch, two pounds; resin of spruce fir, a pound; dried pitch, two pounds; resin of spruce fir, a pound; yellow resin, yellow wax, of each four ounces; expressed oil of nutmegs, an ounce. Having melted together the pitch, resin, and wax, add first the resin of the spruce fir, then the oil of nutmegs, and mix the whole together. From the slight degree of redness this stimulating application produces, it is adapted to gently irritate the skin, and thus relieve rheumatic pains. Applied to the temples, it is sometimes of use in mains of the head in pains of the head.

pains. Applied to the temples, it is sometimes of the head.

EMPLASTRUM PLUMBI! Lead plaster. Emplastrum lithargyri; Emplastrum commune; Diachylon simplez. Take of semi-vitreous oxide of lead, in very fine powder, five pounds; olive oil, a gallon; water, two pints. Boil them with a slow fire, constantly stirring until the oil and litharge unite, so as to form a plaster. Excoriations of the skin, slight burns, and the like, may be covered with this plaster: but is in more general use, as a defensive, where the skin becomes red from lying a long time on the part. This plaster is also of great importance, as forming the basis, by addition to which many other plasters are prepared.

EMPLASTRUM RESINE. Resin plaster. Emplastrum adhassivum; Emplastrum lithargyri cum revira. Take of yellow resin, half a pound; lead plaster, three pounds. Having melted the lead plaster over a slow fire, add the resin in powder, and mix. The adhesive, or sticking plaster, is chiefy used for keeping on other dressings, and for retaining the edges of recent wounds together.

wounds together.

would be used to be us which view, it is applied to lymphatic and other indolent tumours. It forms an admirable defensive and | dicine resembling milk. An imperfect combination of soft application, spread on linen, to surround a frac-tured limb.

EMPLASTRUM THURIS COMPOSITUM. Compound frankincense plaster. Take of frankincense, half a pound; dragon's blood, three ounces; litharge plaster, two pounds. To the melted lead plaster, add the rest pounts, deson's shoot targe ounces; ninage passer, two pounds. To the melted lead plaster, add the rest powdered. This plaster is said to possess strengthening, as well as adhesive powers. By keeping the skin firm, it may give tone to the relaxed muscles it surrounds, but cannot, in any way, impart more strength than the common adhesive plaster.

[The pharmacopusia of the United States admits the following plasters:
Emplastrum ammoniaci.

Do. asafætidæ. Do. ferri. Do. hydrargyri. Do. plumbi.

Do. plumbi subcarbonatis compositum.

resinosum.

resinosum cantharidum. A.] EMPNEUMATO'SIS. From εν, in, and ωνεω, to blow.)

EMPREUMATO SIS. From εν, in, and ανώς, in chows.)
An inflation of the stomach, or any other viscus.
EMPO'RIUM. (From εμπορεω, to negotiate.) A mart. The brain is so called, as being the place where all rational and sensitive transactions are collected.
EMPRESMA. Good revives this term (used in its simple form both by Hippocrates and Galen, to express the control of disease.) internal inflammation) to designate a genus of disease in his Class, *Hæmatica*; Order, *Phlogotica*. Visceral inflammation. It embraces inflammation of all the viscera: hence Empresma cephalitis; otitis; parotirisceta licite impressa ecopitatica, vittas, pur suitas, promitis; tes paristhmitis; laryngitis; bronchitis; pneumonitis; pleuritis; carditis; peritonitis; gastritis; enteritis; hepatitis; splenitis; nephritis; cystitis; hysteritis; orchitis.

ngsternts; σronuss.

Ε μητιοχ. (From εν, and ωριων, a saw.) Serrated.

Formerly applied to a pulse, in which the artery at different times is unequally distended.

EMPROSTHO TONOS. (From εμπροσθεν, before,

EMPROSTHO TONOS. (From εμπροσθεν, before, or forwards, and τεινω, to draw.) A clonic spasm of several muscles, so as to keep the body in a fixed position and bent forward. Cullen considers it as a species of tetanus. See Tetanus.

EMPTYSIS. (From εμπγω, to spit out.) A discharge of blood from the mouth.

EMPYE'MA. (From εν, within, and σνον, pus.) A collection of pus in the cavity of the thorax. It is one of the terminations of pleuritis. There is reason for believing that matter is contained in the cavity of the chest, when, after a pleurisy, or inflammation in the thorax, the patient has a difficulty of breathing, particularly on lying on the side opposite the affected one; and when an addematous swelling is externally perceptible.

EMPYE'MATA. (From ev, and wvov, pus.) Sup-

purating medicines.

EMPYESIS. (From εμπυοω, οτ εμπυεω, suppuro.)

Good has given this term (found in the fifth book of Hippocrates's aphorisms) to a genus of disease, class, Homatica; order, Exanthematica, characterized by phlegmonous pimples, which gradually fill with a purulent fluid. It has only one species, small-pox— Empyesis variola.

Empyreal air. Scheele gave this name to oxygen

EMPYREU'MA. (From εμπυρευω, to kindle, from πυρ, fire.) A peculiar and offensive smell that distilled waters and other substances receive from being exposed to heat in closed vessels, or when burned under circumstances which prevent the accession of air to a considerable part of the mass.

EMPYREUMA'TIC. Empyreumaticus; from εμπυρευω, to kindle.) Smelling as it were burnt; thus empyreumatic oils are those distilled with a great heat, and impregnated with a smell of the fire.

EMI'LIGENT. (Emplayers: from emplayer. to

empyreumatic oils are those distilled with a great heat, and impregnated with a smell of the fire.

EMU'LGENT. (Emulgens; from emulgeo, to melt out; applied to the artery and vein which go from the aorta and vena cava to the kidneys, because the ancients supposed they strained, and, as it were, milked the serum through the kidneys.) The vessels of the kidneys are so termed. The emulgent artery is a branch of the aorta. The emulgent vein evacuates its blood into the ascending cava.

EMU'LSIO. (Emulsio, onis. f.; from emulgeo, to milk) An emulsion. A soft and somewhat oily me

oil and water, by the intervention of some other sub-stance capable of combining with both these sub-

EMULSIO ACACLE. This is made in the same manner as the almond emulsion, only adding while beating the almonds, two ounces of gum arabic. This cooling and demulcent emulsion, ordered in the Edinburgh Pharmacopeia, may be drank ad libitum to mitigate ardor urinz, whether from the venereal virus or any other cause. In difficult and painful micturition, and strangury, it is of infinite service.

EMULSIO AMYGDALE. Almond emulsion. Take of almonds, one ounce; water, two pounds and a half. Beat the blanched almonds in a stone mortar, gradually pouring on them the water; then strain off the

It possesses cooling and demulcent properties. inquor. It possesses woung and demulcent properties. EMULSIO CAMPHORATA. Take of camphor, one scruple; sweet almonds, blanched, two drachms; dou-ble refined sugar, one drachm; water, six ounces. This is to be made in the same manner as the common This is to be made in the same manner as the common enulsion. It is calculated for the stomachs of those who can only bear small quantities of camphire.

EMULSION. See Emulsio.

Emulsion, almond. See Emulsio amygdale.

Emulsion, frabic. See Emulsio acacia.

Emulsion of assignatida. See Mistura asafatide.

Emulsion, amphorated. See Emulsio camphorata.

Emulsion of gum-ammoniac. See Mistura ammo-

niaci.

EMU'NCTORY. (Emunctorium; from emungo, to drain off.) The excretory ducts of the body are so termed; thus the exhaling arteries of the skin constitute the great emunctory of the body.

ENE'MA. (From εγ, and αμα, blood.) Enemos. So Hippocrates and Galen call such topical medicines

as are appropriated to bleeding wounds

EN LORE MA. (From εν, and αιωρεω, to lift up.) The pendulous substance which floats in the middle of the

ENA'MEL. See Teeth.
ENANTHE SIS. 1. (From \$\varphi\$, in, intra, and avors, force; effloreseence from within, or from internal affection.) A genus of disease, Class, Hematica; Order, Exanthematica, in Good's Nosology. Rash exanthem. It comprehends three species: viz. Enanthesis rosalia; rubeola; urticaria

2. (From  $\varepsilon \nu$ , and  $\alpha \nu / a \omega$ , to meet.) The near approach of ascending and descending vessels. ENARTHRO'SIS. (From  $\varepsilon \nu$ , in, and  $\alpha \rho \theta \rho \rho \nu$ , a joint.) The ball and socket-joint. A species of diarthrosis, or moveable connexion of bones, in which the throsis, or moveable connexion of bones, in which the round head of one is received into the deeper cavity of another, so as to admit of motion in every direction; as the head of the os femoris with the acetabulum of the os innominatum. See Articulation.

ENCA'NTHIS. (From εν, and κανθος, the angle of the eye.) A disease of the caruncula lachymalis, of

which there are two species. Encanthis benigna, and Encanthis maligna seu inveterats. The encanthis, at its commencement, is nothing more than a small, soft, red, and sometimes rather livid excreseence, small, soft, red, and sometimes rather livid excrescence, which grows from the caruncula lachrymalis, and at the same time from the neighbouring semilunar fold of the conjunctiva. This excrescence on its first appearance is commonly granulated, like a mulberry, or is of a fagged and fringed structure. Afterward, when it has acquired a certain size, one part of it represents a granulated tumour, while the rest appears like a smooth, whitish, or ash-coloured substance, streaked with various presents concerned advancing as for over with varicose vessels, sometimes advancing as far over the conjunctiva, covering the side of the eye next to the nose, as where the cornea and sclerotica unite.

the nose, as where the cornea and selerotica unite.

The encanthis keeps up a chronic ophthalmy, impedes the action of the eyelids, and prevents, in particular, the complete closure of the eye. Besides, parly by compressing and partly by displacing the orifices of the puncta lachrymalia, it obstructs the free passage of the tears into the nose. The inveterate encanthis is ordinarily of a very considerable magnitude; its roots extend beyond the caruncula lachrymalis and semilunar fold to the membraneous lining of one or both eyelids. The patient experiences very serious inconvenience from its origin and interposition between the commissione of the eyelids, which it necessarily keens commissure of the eyelids, which it necessarily keeps asunder on the side towards the nose. Sometimes the disease assumes a cancerous malignancy. This character is evinced by the dull red, and, as it were, leaden ; colour of the excrescence; by its exceeding hardness, and the lancinating pains which occur in it, and extend to the forehead, the whole eyeball and the temple, especially when the tumour has been, though slightly, touched. It is also shown, by the propensity of the touched. It is also shown, by the propersity of the excressence to bleed, by the partial ulcerations on its surface, which emit a fungous substance, and a thin end exceedingly acrid discharge.

ENCATALE PSIS. (From εν, από καγαλαμβανω,

ENCATHISMA. (From εν, and καθύζω, to sit in.) A semicupium, or bath for half the body.

ENCAUMA. (From εν, in, and καιω, to burn.) A

urn. See Burn. ENCAU'SIS. (From εν, and καιω, to burn.) A burn.

ENCEPHALOCE'LE. (From ενκεφαλον, the brain,

And κηλη, a tunour.) A rupture of the brain.
ENCEPHALON. (From εν, in, and κεφαλη, the head.) Encephalum. By some writers the cerebrum only is so called; and others express by this term the contents of the cranium.

ENCE'RIS. (From εν, and κηρος, wax.) A roll of wax for making plasters.

was not making plasters. Encare's is. (From  $\varepsilon \nu$ , and  $\kappa \varepsilon \rho o \omega$ , to wax.) The covering of a plaster with wax. ENCHARA'XIS. (From  $\varepsilon \nu$ , and  $\chi a \rho a \sigma \sigma \omega$ , to scariff.) A scarification.

rify.) A scarification.

ENCHEIRE SIS. (From  $\varepsilon\nu$ , and  $\chi\varepsilon\rho$ , the hand.)

Encherica. Galen uses this word as a part of the title
to one of his works, which treats of dissection. The

word imports the manual treatment of any subject. ENCHEI'RIA. See Encheiresis. ENCHILO'NA. See Enchuluma

Encho'ndrus. (From εν, and χονδρος, a cartilage.)

ENCHRIS'TA. (From εγχριω, to anoint.)

ENCHYMA. (From εν, and χυλος, juice.) inspissated juice. An elixir, according to Lemery Ε΄ΝCHYMA. (From εν, and χεω, to infuse.) En-

chysis. 1. An infusion.

A sanguineous plethora.

NCHY'MATA. (From εγχυω, to infuse.) ENCHY MATA.

tions for the eyes and ears.

ENCHYMO'MA. (From εν, and χυω, to pour in.) In the writings of the ancient physicians, it is a word by which they express that sudden effusion of blood into the cutaneous vessels, which arises from joy, anger, shame; and, in the last instance, is what we usually call blushing.

ENCHYMO'SIS. Εγχυμωσις. 1. Blushing. 2. An extravasation of blood, which makes the part

appear livid. ε E'nchysis. See Enchyma. Encly'sma. (From εν, and κλυζω, to cleanse out.)

ENCE LIA. (From εν, within, and κοιλια, the belly.) The abdominal viscera.
ΕΝCOLΡΙ΄ SMUS. (From εγκολπεω, to insinuate.) Α

uterine injection.

ENCRA'NIUM. (From EV, within, and κρανιον, the skull.) The cerebrum and the whole contents of the

ENCRASI CHOLUS. (From εν, in, κερας, the head, and χολη, bile; because it is said to have the gall in its head.) The anchovy. See Clupea.

Ε΄κεμε. Εγκρις. Α cake of meal, oil, and honey. Ε΄ΝCYMON. (From εν, and κνω, to conceive.)

ENCYSIS. (From εν, and κυω, to bring forth.)

ENCY'STED. Saccatus. A term applied to those tumours which consist of a fluid or other matter, en-

closed in a sac or cyst.

ENCY'STIS. (From ev, in, and eugs, a bag.) An

encysted tumour.

ENDE MIC. (Endemicus, sc. morbus; from ev, in, and δημος, people.) A disease is so termed that is peculiar to a certain class of persons, or country: thus struma is endemial to the inhabitants of Derbyshire and the Alps; scurvy to seafaring people; and the plica polonica is met with in Poland.

E'ndesis. (From εν, and δεω, to tie up.) A ligature.

A bandage ENDIVE. See Cichorium. ENDI'VIA. (Quasi cundo via, quia passim nastitur; named from the quickness of its growth.) See Cichorium.

E'NDOSIS. (From sy, and διδωμε, to give.) A re-

E'mones. (From sy, and otobu, to give.) A remission, disorder.
ENECIA. (From Hueens, continued.) A genus of disease in Good's Nosology. Class, Hamatica; Order, Fyrctica: continued fever. It comprehends three species, Enecia cauma; typhus; synochus.
ENELLA'GMENUS. (From eyahAar]a, to interchange.) An epithet applied to the union of the

change.) An epithe

E'NEMA. (Enema, matis. neut.; from ενιημι, to inject.) A clyster. A well-known form of conveying inject.) A clyster. A well-known form of conveying both nourishment and medicine to the system, under certain morbid circumstances. The former takes place where obstruction of the passage to the stomach is so great as to render access to that organ impossible, such as occurs in lockjaw, diseased esophagus, &c. By these means the body can be supported for a few weeks, while an attempt is made at effecting a cure. It is composed, in such cases, of animal broths, gruels wade of faringeous seeds, mucilages, &c. As a form It is composed, in such cases, of animal broths, gruels made of farinaceous seeds, mucilages, &c. As a form of medicine, clysters are no less useful; and, according to the intention with which they are prescribed, they are either of an emollient, anodyne, or purgative nature. The following forms are in general use.

ENEMA ANDDYNUM. Take of starch jelly, half a pint; tincture of opium, forty to sixty drops. Mix. The whole to be injected by means of a clyster-syringe, in cases of discontext or violent, purply, and series.

in cases of dysentery or violent purging, and pain in

the bowels.

ENEMA ANTISPASMODICUM. Take of tineture of asafetida, half an ounce; tineture of opium, forty drops; gruel, half a pint. Mix. For spasmodic affections of the bowels.

ENEMA LAXATIVUM. Take of sulphate of magnesia, two ounces; dissolve in three quarters of a pint of warm gruel, or broth, with an ounce of fresh butter, or sweet oil.

ENEMA NICOTIANE. Take of the infusion of to-bacco from a half to a whole pint. Employed in cases

of strangulated hernia.

Enema nutriens. Take of strong beef tea, twelve ounces; thicken with hartshorn shavings, or arrow-

ENEMA TEREBINTHINE. Take of common turpentine, half an ounce; the yelk of one egg, and half a pint of gruel. The turpentine being first incorporated with the egg, add to them the gruel. This clyster is generally used, and with great good effect, in violent fits of the stone.

ENEREI'sis. (From ενερειδω, to adhere to a com-

ENERFISIS. (From ενερείου, to adhere to a compression.) A tight ligature.
E'NERGY. (Energia; from ενεργεω, to act.) The degree of force exercised by any power: thus, nervous energy, muscular energy, &cc.
ENERVATING. The act of destroying the force, use, or office of the nerves, either by cutting them, or hearly in them, by sideleng or chuse of the recovery.

breaking them by violence or abuse of the non-naturals.

turals.

ENEURE'SIS. See Enuresis.

ENERVIS. Ribless: applied to leaves which are without lines or ribs.

ENGALA'CTOM. (From sν, and γαλα, milk; so called, because it is eaten by nurses to increase their milk.) The herb saltwort. See Salsola.

ENGASTRIMY'THUS. (From sν, in, γαςγο, the holly, and μυθερμα, to discourse.) A ventriloquist; ENGRSTRIAL THOSE (Find as, margane, me belly, and publequa, to discourse.) A ventrioquist; one who appears to speak from his belly.

ENGRSO'MA. (From crysto, to approach.)

1. An instrument for making the parts of a broken

clavicle meet.

2. A fracture of the cranium.

2. A fracture of the cramin.

English Mercury. See Mercurialis.

Englosh Mercury. See Mercurialis.

ENGLOTTO-OASTOR. (From εν, γλωτ/η, the tongue, and γαςηρ, the belly.) A ventriloquist.

ENGOMPHO'SIS. (From εν, and γομφος, a nail., That species of articulation which resembles a nail.) That species of articulation which resembles a name driven into wood, as a tooth in its socket. Engo'snos. (From s.γ. and γωνια, an angle.) The flexure, or angle made by the bending of a joint. Eng'xum paracels. The caput mortuum of the

distillation of nitric acid, which is a super-sulphate of

potassa.
ENNEANDRIA. (From evesa, nine, and dvnp, a man.) The name of a class of plants in the sexual

system, containing such as have hermaphrodite flow- , the pulse, shrinking of the features, and distention of ers with nine stamina.

ENNEAPHA'RMACUM. (From εννεα, nine, and φαρ-μακον, a medicine.) A medicine composed of nine

μακου, a medicine.) A medicine companion implementation of the ENNEAPHY LLUM. (From εννεα, nine, and φυλλον, a leaf; because its flower consists of nine leaves.) A name for helleborssetr, or bear's-foot. ENODIS. Without knots: applied to stems of plants, as Culmus enodis; that is, a smooth culm, as

in our common rushes.

in our common rushes. Enry Thmus. (From  $\varepsilon \nu$ , and  $\rho \nu \theta \mu o \varepsilon$ , number.) A pulse in some respect regular. ENS. This word denoted in ancient chemistry the most efficacious part of any natural mixed body, whether animal, vegetable, or fossil, wherein all the qualities or virtues of the ingredients of the mixed are comprehended in a small compass.

ENSATA. (From ensis, a sword.) The name of a natural order of plants, consisting of such as have

sword-shaped leaves.

E'NSIFORM. (Ensiformis; from ensis, a sword, and forma, resemblance.) Sword-like. 1. A term applied to some parts from their resemblance; as the

ensiform cartilage.

2. In botany, a leaf is called folium ensiforme, which has two edges, and tapers to a point, like a sword. See Leaf.

ENSTA CTUM, (From εν, and 5αζω, to instil.) A liquid medicine, which is applied instillatim, or drop

hquin heacht, by drop.

ENTASIA. (From eyragis, intentio vehementia.)

A name of a genus of diseases in Good's Nosology.

Class, Neurotica; Order, Cinetica. Constictive spasm. It has eight species, viz. Entasia priagis
spasm. It has eight species, viz. Entasia priagis
spasm. it has eight species, viz. entasia priagis
spasm. it has eight species, viz. entasia priagisspusin. It has eight species, viz. Entasta prapismus; lotia; articularie; systremma; trismus; tetamus; lyasa; acrotismus.

Enta'tica. (From sv/tvx, to strain.) Provocalives, or whatever excites venereal inclination.

ENTERA. (From sv/tos, within.)

The horsels

The bowels

Hippocrates calls by this name the bags in which

2. Hippocrates calls by this name the bags in which redictines for formentations were formerly enclosed. ENTERADE'NES. (From εν/ερον, an intestine, and αδην, a gland.) The intestinal glands.

ENTERADE'NENTA. (From εν/ερομ, the bowels, and εγχυω, to influse into.) An instrument for administering clysters. A clyster-pipe.

ENTERICA. (From εντερον, intestinum, alvus.) The name of the first order, class Caliaca, of Good's Nosology. Diseases affecting the alimentary canal. Its general are, Odorfie. Frankerser.

Nosology. Diseases affecting the alimentary canal. Its genera are, Odontia; Psyalismus; Dysphagia; Thipsosis; Limosis; Colica; Coprostasis; Dirarhaa; Cholera; Enterolithus; Helminthia; Proctica. ENTERITIS. (Prom syligacy, an intestine.) Inflammation of the intestines. It is a genus of disease in the class Pypezia, and order Phlegamasia of Gullen, and is known by the presence of pyrexia, fixed pain in the abdonen, costiveness, and contains. The causes of enteritis are much the same as those of gastritis, being occasioned by acrid substances, indurated faces, long-continued and obstinate costiveness, spasmodic colic, and a strangulation of any part of the intestinal canal; but another very general cause is the application of cold to the lower extremities, or to the belly itself. It is a disease which is most apt to occur at an advanced period of life, and is very liable to at an advanced period of life, and is very liable to at an advanced period of life, and is very liable to a

It comes on with an acute pain, extending in general It comes on with an acute pain, extending in general over the whole of the abdomen; but more especially round the navel, accompanied with cructations, sickness at the stomach, a vomiting of bilious matter, obstinate costiveness, thirst, heat, great anxiety, and a quick and hard small pulse. After a short time the pain becomes more severe, the bowels seem drawn together by a kind of spasm, the whole region of the abdomen is highly painful to the touch, and seems drawn together in lumpy contractions; invincible cos-tiveness prevails, and the urine is voided with great

difficulty and pain.

The inflammation continuing to proceed with vi-

olence, terminates at last in gangrene; or abating gradually, it goes off by resolution.

Enteritis is always attended with considerable dangor, as it often terminates in gangrene in the space of a few hours from its commencement; which event is marked by the sudden remission of pain, sinking of the belly, and it frequently proves fatal likewise, du-ring the inflammatory stage. If the pains abate gradually, if natural stools be passed, if a universal sweat,

dually, if natural stools be passed, if a universal sweat, attended with a firm equal pulse, comes on, or if a copious discharge of loaded urine, with the same kind of pulse, takes place, a resolution and favourable termination may be expected.

Dissections of this disease show, that the inflammation pervades the intestinal tube to a very considerable extent; that adhesions of the diseased portion to contiguous parts are formed; and that, in some cases, the intestines are in a gangrenous state, or that ulcerations have formed. They likewise show, that, besides obstinate obstructions, introsusception, constrictions, and have formed. They likewise show, that, besides ob-stinate obstructions, introsusception, constrictions, and twistings, are often to be met with; and that, in most cases, the peritoneum is more or less affected, and is perceived, at times, to be covered with a layer of coagulable lymph. The treatment must be begun by taking blood freely from the arm, as far as the strength of the patient will allow; but the disease occurring more frequently in persons rather advanced in years, and of a constitution somewhat impaired, it becomes more important to limit this evacuation and rely in a great measure on the effects of a number of leeches, great measure on the effects of a number of feeches, applied to the abdomen. Another very useful step is to put the patient into a hot bath, which may presently induce faintness; or where this cannot be procured, fomenting the abdomen assiduously. When the symptoms are thus materially relieved, an ample blister should be applied. It becomes also of the first importance to deer out the bowless, a compusal static electer. ance to clear out the bowels: a copious laxative clyster will evacuate the inferior part of the canal, and solicit the peristaltic motion downwards; and the milder cathartics, as castor oil, neutral salts, &c. in divided the peristante motion wownwards; and the minder cathartics, as castor oil, neutral salts, &c. in divided doses, may gradually procure a passage. But where the disease has been preceded by costiveness, more active articles will probably be necessary, as calomel, compound extract of colocynth, infusion of senna, with salts, &c. If the stomach be irritable, the effer-vescing saline draught may enable it to retain the requisite cathartics. Another plan, often very successful, is giving opium in a full dose, particularly in conjunction with calomel, taking care to follow it up by some of the remedies above mentioned, till the bowels are relieved; which effect it appears to promote by its soothing artispasmodic power. Afterward we may endeavour to keep up diaphoresis, and recruit the strength of the patient by a mild nourishing diet; taking care to guard against accumulation of faces, exposure to cold, or any thing else likely to occasion a relapse.

ENTERO'. (From sylgov, an intestine.) Names compounded of this word belong to things which resemble an intestine; or to parts connected with, or

semble an intestine; or to parts connected with, or diseases of some part of the intestine.

ENTEROCE'LE. (From εν/λερον, an intestine, and κτηλη, a tumour.) An intestinal rupture or hernia. Every hernia may be so called that is produced by the protrusion of a portion of intestine, whether it is in the groin, navel, or elsewhere.

ENTERO-EPIPLOCELE. (From  $\varepsilon\nu/2\varepsilon\rho\sigma\nu$ , an intestine,  $\varepsilon\pi\pi\pi\lambda\sigma\nu$ , the epiploon, and  $\kappa\eta\lambda\eta$ , a tumour.) A rupture formed by the protrusion of part of an intestine,

with a portion of the epiploon.

With a portion of the epipious ENTERO-HYDROCELE. (From EVTEROV, an intestine, Vdwo, water, and  $Kn/N\eta$ , a tumour.) This must mean a common scortal hernia, with a good deal of water in the hernial sac; or else a hernia congenita, (in which the bowels descend into the tunica vaginalis testis.) attended with a collection of fluid in the cavity of this membran

ENTEROLITHUS. (From εντερον, an intestine, ENTEROLITHUS. (From evergon, an intestine, and \(\lambda \text{log}\_{5}\), a stone.) The name of a genus of disease, Class, \(Caliaca\_{5}\) Order, \(Enterica\_{5}\) in Good's Nosology. Intestinal concretion. It embraces three species, viz. \(Enterolithus\_{5}\) because \(\text{col}\) calculus; \(\text{seybalum}\) ENTERO'MPHALUS. (From \(\text{evergon}\), an intestine, and \(\text{ou}\) \(\text{down}\) above, the navel.) An umbilical hernia, produced by the protrusion of a portion of intestine. \(\text{ENTERO'PHYTUM}\). (From \(\text{ev}\) \(\text{foot}\), an intestine, \(\text{ENTERO'PHYTUM}\). A plant \(\text{white}\) \(\text{foot}\) and \(\text{foot}\) intestine.

ENTERO'PHYTUM. (From εν/ερον, an intestine, and φυ/ον, a plant.) A plant which grows in the form of a gut, the sea-chittering.

ENTERORA'PHIA. (From εντερον, an intestine, and ρφφη, a suture.) A suture of the intestines, or the sewing together the divided edges of an intestine.

ENTEROSCHEOCE'LE. (From εν/ερον, an intestine, and property the gradual and gradual a

tine, osxeov, the scrotum, and knin, a rupture.) A

scrotal hernia, or rupture of the intestines into the

ENTHE'MATA. (From εν7ιθημι, to put in.) Anti-inflammatory styptics

Reinmanory sypposes.

ENTHLASIS. A contusion with the impression of the instrument by which it happened.

Entire Leaf. See Integerrimus.

ENTROCHI. A genus of extraneous fossils, made

up of round joints, which, when separate and loose,

are called trochita.

ENTROPIUM (Entropium, i. n.; from sy, and reprom, to turn.) A disease of the eyelids, occasioned by the eyelashes and eyelid being inverted towards the bulb of the eye.

ENTROSIS. (From \$\(\nu\)/v\(\nu\)\\ o\(\nu\)\ to make an impression.)

1. The acetabulum.

2. The scapula, or concave bone of the shoulder.

ENULA. (A corruption of kenula, or Helenium, from Helene, the island where it grew.) See Inula

ENULA CAMPANA. See Inula helenium. ENU'LON. (From εν, and ουλον, the gums.) The internal flesh of the gums, or that part of them which

is within the mouth.

ENURE'SIS. (Encuresis, is. f.; from evenues, to make water.) An incontinency, or involuntary flow of urine. This disease usually proceeds either from relaxation or a paralytic affection of the sphincter of the bladder, induced by various debilitating causes, as too free a use of spirituous liquors, manustupration, and excess in venery; or it arises from compression on the bladder, from the diseased state of the organ, or from some irritating substance contained in its cavity. It is arranged in the class Locales, and order Apocenoses of Cullen, and contains two species: 1. Enuresis atonica, the sphincter of the bladder having lost its tone from some previous disease. 2. Enuresis ab irrita-Nom some previous disease. 2. Enuresis as irritatione, ret compression evisice, from an irritation or compression of the bladder. Epacem. (Strome et al., and armazo, to increase.) A fever which is increasing in malignity. Epacem. (From  $sma_{m}a_{k}^{*}\omega_{k}$ , to increase.) The increase, or exacerbation of a disease.

crease, or exacerbation of a disease.

Epano etum. (From eraγω, to draw over.) The prepuce, or that part of the penis which is drawn over the glans, according to Dioscorides.

Epanatorio NTES. (From επαναδιδωμι, to increase.) A term applied to fevers which continue to increase in their degree of heat.

Epanatorio'sis. (From επαναδιπλοω, to reduplicate.) The reduplication of a fit of a semitertian fever; that is, the return of the cold fit before the hot fit is ended.

EPANA'STABIS. (From επι, and ανιζημι, to excite.)

EPANA'STASIS. (From επι, and ανιξημι, to excite.) A tubercle, or small pustule upon the skin.
EPANCYLO'TUS. (From επι, and αγκυλος, crooked.) A sort of crooked bandage in Oribasius.
EPANETUS. (From 'Eπανεμι, to return.) The name of a genus, Class Hæmatica; Order, Pyretica, in Good's Nosology. Remittent fever. It has three species, viz. Epanetus nutis; malignus; hectica.
EFA'RMA. (From επαιρω, to elevate.) Epareis. Any kind of tumour, but frequently applied to one of the parotid gland.
EPA'RSIS. See Eparma.
EPASMA'STIGA FEBRIS. A fever is so called by Bellint, and others, while it is in its increase. See Eparmasticus.

EPE NCRANIS. (From επι, εν, in, and κρανιον, the skull.) The name of the cerebellum.

EPHEBRA. (From επίς and ηδη, the groin.) The hair upon the pubes.
Ε'PHEBRA. (From εφέζομαι, to sit upon.) Ephedrana.

1. The buttocks.

The nutroes, an ulcer.

The function of the service of the services. (From ser, upon, and edges, an ulcer.)

The crust of an ulcer.

Hardened purulent expectoration.

EPHE'LIS. (Ephelis; from εm, and ηλιος, the sun.) A sun spot. A solitary, or aggregated spot, attacking most commonly the face, back of the hand, and breast, from exposure to the sun.

EPHERMEN (Processing of the sun.)

breast, from exposure to the sun.
EPHE MERA. (From ext, upon, and ημερα, a day.)
A disease of a day's duration.
2. A fever which begins, is perfectly formed, and
runs through its course in the space of twelve hours.

EPHEME'RIDES. (Ephemeris, idie. f.; from εφημερις, an almanac: so called because, like the moon's age, they may be foretold by the almanac.) Diseases which return at particular times of the moon.

Diseases which return at particular unes of the moon. EPHIA/LTES. (From spalladaput, to leap upon: so called because it was thought a dæmon leaped upon the breast.) Incubus, or nightmare. See Oneirodynia. Epuia/LTIA. (From ephiattes, the nightmare; so called because it was said to cure the nightmare.)

called because it was said to care the inglamate.)
The herb peony.
EPHIDRO'SIS. (From εφιδροω, to perspire.) Sudatio. Mador. A violent and morbid perspiration.
A genus of disease in the class Locales, and order
Apocenoses of Cullen.
EPHI'PPIUM. A saddle, which it is thought to re-

semble. See Sella turcica.

E'PHODOS. (From ext and odos, a way.) In Hippocrates it hath three signification

1. The ducts or passages, by which the excrements

of the body are evacuated.

2. The periodical attack of a fever, from the common use of it to express the attack of thieves.

3. The access of similar or dissimilar things, which

The may be useful or hurtful to the body.

EPIALTES. See Ephialtes.

EPIALUS. (From ηπιον, gently, and αλκαζω, to heat.) Epialos. An ardent fever, in which both heat and cold are felt in the same part at the same time. Galen defines it to be a fever in which the patient labours under a preternatural heat and a coldness at the same time. The ancient Latins call it Quercera. the same time. The ancient Launs can a the Eprison Entisaka (From επιβαλλω, to press upon.)

EFICA NATHUS. (From επι, and κανθος, the angle of the eye.) The angle of the eye.

EFICA FRIUM. (From επι, upon, and καρπος, the wrist.) A medicine applied to the wrist.

EFICA UMA. (From επι, and επις.) hurn.

EPICAU'SIS. A burn.
EPI'CERAS. (From επί, and κερας, a horn: so called because its pods are shaped like a horn.) See Trigo-

nella fenun gracum.

Ericera'srica. (From en, and kepannun, to mix.)
Medicines which, by mixing with acrimonious juices, temper them and render them less troublesome; as emollients.

(From επι, and χειρ, the hand.) EPICHEIRE'SIS. A manual operation

(From επι, and γολη, the bile.) Epi'cholus.

Epicho'Rdis. (From επι, upon, and χορδη, a gut.) The mesentery.

EPICHO'RIOS. (From επι, upon, and χορα, a region.)

EPICHO RIOS. (From sπι, upon, and χορα, a region.)
The same as epidermis.
EPICHROSIS. (From επιχρωσις, a coloured or spotted surface.)
The name of a genus of disease, Class, Eccritica; Order, Acrotica, in Good's Nosology.
Macular skin, or simple discoloration of the surface. It embraces seven species, viz. Epichrosis leucasmus; spilus; lenticula; ephelis; aurigo; pacilia; alphosis.

Epicælis. (From sm., upon, and koldis, the eyelid.) The upper eyelid. EPICO'LIC.

EPICO'LIC. (Epicolicus; from επι, upon, and κωλον, the colon.) That part of the abdomen which lies over the head of the accum and the sigmoid flexure of the colon, is called the epicolic region.

EPICOPHO'SIS. (From επι, and κωφος, deaf.)

total deafness.

EPICRA'NIUM. (From err, and spavior, the cranium.) The common integuments, aponeurosis, and muscular expansion which lie upon the cranium.

and musculat expansion with the approximation of the Ericka' NUS. See Occipito frontalis. EPΓCRASIS. (From επι, and κερανυμι, to temper.) A critical evacuation of bad humours, an attemperation of bad ones. When a cure is performed

temperation of advoice.

Friend a clied per Epicrasia.

EPICRISIS. (From επ., and κρινω, to judge from.)

A judgment of the termination of a disease from present symptoms.

EPICTE'NUM. (From  $\varepsilon\pi\iota$ , about, and  $\kappa7\varepsilon\iota\varsigma$ , the ibes.) The parts above and about the pubes. pubes.)

EFICYE'MA. (From επι, upon, and κυω, to conceive.) Superfeetation.

Epiczess. See Epicyema.

EPICZE'SIS. See Epicyema.

EPIDE'MIC. (Epidemicus; from επι, upon, and δημος, the people.) A contagious disease is so termed.

that attacks many people at the same season, and in | glottis is fixed to the thyroid cartilage, the on hyoides,

that attacks many people at the same season, and in the same place; thus, putrid fever, plague, dysentery, &c. are often epidemic.

EPIDE'NDRUM. (From ent, upon, and δενδρον, a tree; because all this genus of plants grow parasitically on the trunks or branches of trees.) The name of a genus of plants in the Linnman system. Class, Gynandria; Order, Monandria.

EPIDENDRUM VANILLA. The systematic name of the vanelhoe plant. Familia; Banilas; Anacus aromaticus; Epidendrum—scandens, foliis ovato oblong is nervosis sessibbus caulinis, cirrhis spiralibus of Linneus. The vanelloe is a long, flattish pod, containing, under a wrinkled brittle shell, a reddish brown pulp, with small shining black seeds, which have an unctuous aromatic taste, and a fragrant smell like that of some of the finer balsams heightened with musk. Although chiefly used as perfumes, they are said to Although chiefly used as perfumes, they are said to possess aphrodisiac virtues.

EPI'DERIS. (From επι, and δερας, the skin.) The

EPIDE'RMIS, EPIDE'RMIS, (From επι, upon, and δερμα, the true skin.) The scarf-skin. See Cuticle.

true skin.) 'The scarf-skin. See Cuticle.
Epi'desis. (From sπ, upon, and δεω, to bind.) A bandage to stop a discharge of blood.
Epid smus. (From sπ, upon, and δεω, to bind.) A handage by which splints, bolsters, &c. are secured.
EPIDI'DYMIS. (From επι, upon, and διδυμος, a testicle.) A hand, vascular, oblong substance, that lies upon the testicle, formed of a convolution of the vas deferens. It has a thick end, which is convex, and situated posteriorly; and a thin end, which is rather flat, and situated inferiorly. The epididymis adheres to the testicle by its two extremities only, for its middle part is free, forming a bag, to which the tunica vagi-

to the testicle by its two extremities only, for its middle part is free, forming a bag, to which the tunica vaginalis of the testicle is attached.

Ept'posts. (From επιδιδωμι, to grow upon.) A preternatural enlargement of any part.

EPHDOTE. Pistacite of Werner. Acanticone from Norway. A sub-species of prismatoidal augite. A compounded one, containing silica, alumina, line, oxide of iron, oxide of manganese, found in primitive beds and veins, along with augite, hornblende, calcarous snar. Ac reous spar, &c.

EPI'DROME. (From επιδρεμω, to run upon.)

afflux of humours. EPIGA'STRIC.

EPIGA/STRIC. (Epigastricus; from  $\varepsilon m$ , upon, or above, and  $\gamma a_{\varsigma \gamma \rho}$ , the stomach.) That part of the abdomen that lies over the stomach, is called the epigastric region; it reaches from the pit of the stomach to an imaginary line above the navel, supposed to be drawn from one extremity of the last of the false ribs to the other. Its sides are called hypochondria, and are covered by the false ribs, between which lies the epigastrium.

epigastrium.

EPIGA'STRIUM. (From επι, upon, or above, and
The part immediately over the γαςηρ, the belly.) stomach.

EPIGENESIS. A name given by the ancients, to that theory of generation which consists in regarding the fietus as the joint production of matter afforded by

both seres.

EPIGENNE'MA. (From satytvoµat, to generate upon.) 1. The fur on the tongue.

2. An accessory symptom.

EPIGENNE SIS. See Epigennema.

EPIGINO'MENA. (From satytvoµat, to succeed or supervene.) Galen says, they are those symptoms which naturally succeed, or may be expected in the progress of a disease; but Foesius says, they are accessions of some other affection to diseases, which never happen but in stubborn and malignant diseases.

diseases.

EPIGLO'SSUM. (From επι, upon, and γλωσσα, the tongue: so called because a less leaf grows above the larger in the shape of a tongue.) The Alexandrian laurel, a species of Ruseus.

EPIGLO'TTIS. (From επι, upon, and γλωσγις, the tongue.) The cartilage at the root of the tongue that falls upon the glottis or superior opening of the larynx. Its figure is nearly oval; it is concave posteriorly, and convex anteriorly. Its apex or superior extremity is loose, and is always elevated upwards by its own elasticity. While the back of the tongue is drawn backwards in swallowing, the epiglottis is put over the apperture of the larynx, hence it shuts up the passage from the mouth into the larynx. The base of the epi-

glottis is fixed to the thyroid cartilage, the os hyoides, and the base of the tongue, by a strong ligament.

EPIOLO TICH. (From [επιγλων Γ]ες, the epiglottis, which it resembles in shape.) An instrument mentioned by Paracelsus for elevating the eyelids.

EPIGLOU'TIS. (From επι, upon, and γλον Γ]ος, the buttocks.

The superior parts of the buttocks.

EPIGO'NATIS. (From επι, upon, and γονν, the knee.)

The patella or knee-pan.

EPIGO'NIDES. (From επι, and γονν, the knee.) The muscles inserted into the knees.

(From επιγινομαι, to proceed upon.)

EPI ONUM.
A superfectation.
EPILE MRSIS. See Epilepsy.
Corrupted from epilepsia. EPILE'NTIA. Corrupted from epilepsia. EPILEPSY. (Ερήερεια, α. f.; from cπλαμβανω, to seize upon: so called, from the suddenness of its attack.) It is also called falling sickness, from the patient suddenly falling to the ground on an attack of this disease. By the ancients it was termed, from its affecting the mind, the most noble part of the rational creature, the sacred disease. It consists of convulsions with sleep, and usually froth issuing from the mouth. It is a genus of disease in the class Newroses, and order Spasmi, of Cullen, and contains three species: species:

Epilepsia cerebralis; attacking suddenly without manifest cause, and not preceded by any unpleasant sensation, unless perhaps some giddiness or dimness of

2. Epilepsia sympathica; without manifest cause, but preceded by a sensation of an aura ascending from

some part of the body to the head.

some part of the body to the head.

3. Epilepsio occasionalis; arising from manifest irritation, and ceasing on the removal of this. It comprehends several varieties:—a. Epilepsia traumatica, arising from an injury of the head: b. Epilepsia a delore, from pain: c. Epilepsia verminosa, from the irritation of worms: d. Epilepsia a veneno, from poisons: e. Epilepsia exanthematica, from the repulsion of cutaneous eruptions: f. Epilepsia a craditate ventricali, from crudities of the stomach: g. Epilepsia ab inanitione, from debility: h. Epilepsia uterina, from lysterical affections: i. Epilepsia ex onanismo, from onanism. &c. onanism, &cc

Epilepsy attacks by fits, and after a certain duration goes off, leaving the person most commonly in his usual state; but sometimes a considerable degree of stupor and weakness remain behind, particularly where the disease has frequent recurrences. It is oftener met with among children than grown persons, and boys seem more subject to its attacks than girls. Its returns are periodical, and its paroxysms commence more frequently in the night than in the day, being some-what connected with sleep. It is sometimes coun-terfeited, in order to extort charity or excite com-

Epilepsy is properly distinguished into sympathetic and idiopathic, being considered as sympathetic, when produced by an affection in some other part of the

produced by an affection in some other part of the body, such as acidities in the stomach, worms, teething, &c. as idiopathic when it is a primary disease, neither dependent on nor proceeding from any other. The causes which give rise to epilepsy are blows, wounds, fractures, and other injuries, done to the head by external violence, together with lodgments of water in the brain, tumours, concretions, and polypi. Violent affections of the mervous system, sudden frights, fits of passion, great emotions of the mind, acute pains in any part, worms in the stomach or intestines, teething, the suppression of long-accustomed evacuations, too suppression of long-accustomed evacuations, to the suppression of long-accusomed evacuations, or great emptiness or repletion, and poisons received into the body, are causes which likewise produce epilepsy. Sometimes it is hereditary, and at others it depends on a predisposition arising from mobility of the senso-rium, which is occasioned either by plethors, or a state of debility.

of debility.

An attack of epilepsy is now and then preceded by a heavy pain in the head, dimness of sight, noise in the ears, palpitations, flatulency in the stomach and intestines, weariness, and a small degree of supor, and in some cases, there prevails a sense of something like a cold vapour or aura arising up to the head; but it more generally happens that the patient falls down suddenly without much previous notice; his eyes are distorted, or turns so that only the whitee of them can be seen; his fingers are closely clenched, and the trunk

of his body, particularly on one side, is much agitated, he foams at the mouth, and thrusts out his tongue, which often suffers great minry from the muscles of the lower jaw being affected; he loses all sense of feeling, and not unfrequently voids both urine and faces involuntarily.

The spasms abating, he recovers gradually; but on coming to himself feels languard and exhausted, and coming to himself feels languard and exhausted, and

retains not the smallest recollection of what has passed

When the disease arises from an hereditary disposition, or comes on after the age of puberty, or where the fits recur frequently, and are of long duration, it will be very difficult to effect a cure: but when its atwill be very dimediate beneed a cure: but when its at-tacks are at an early age, and occasioned by worms, or any accidental cause, it may in general be removed with ease. In some cases, it has been entirely carried off by the occurrence of a fever, or by the appearance of a cutaneous eruption. It has been known to ter-minate in apoplexy, and in some instances to produce a loss of the powers of the mind, and to bring on idiotice.

The appearances usually to be observed on dissection, are serous and sanguineous effusion, a turgid tense state of the vessels of the brain without any effusion,

state of the vessels of the brain without any effusion, a dilatation of some particular part of the brain, excrescences, polypi, and hydatids, adhering to it, and obstructing its functions, and likewise ulcerations. During the epileptic paroxysm in general, little or nothing is to be done, except using precautions, that he patient may not injure himself; and it will be prudent to remove any thing which may compress the veins of the neck, to obviate congestion in the head. Should there be a considerable determination of blood to this part, or the patient very plethoric, it may be proper, if you can keep him steady, to open a vein, or the temporal artery; and in weakly constitutions the most powerful antispasmodics may be tried in the form of clyster, as they could hardly be swallowed: but there is very seldom time for such measures. In the there is very seldom time for such measures. In the Intervals, the treatment consists: 1. In obviating the several exciting causes. 2. In correcting any observable predisposition. 3. In the use of those means, which are most likely to break through the habit of re-

which are most likely to break through the habit of returrence.

I. The manner of fulfilling the first indication requires little explanation; after an injury to the head,
or where there is disease of the bone, an operation may
be necessary, to remove irritation from the brain; in
children teething, the gums ought to be lanced: where
the bowels are foul, or worms suspected, active purgatives should be exhibited, &c. In those instances in
which the aura epiteptica is perceived, it has been recommended to destroy the part, where it originates, or
divide the nerve going to it, or correct the morbid action by a blister, &c.; such means would certainly be
proper when there is any disease discoverable in it.
Making a tight ligature on the limb above has sometimes prevented a fit; but, perhaps, only through the times prevented a fit; but, perhaps, only through the

times prevented a fit; but, perialpo, only intoget the medium of the imagination.

If. Where a plethoric state appears to lay the foun-dation of the disease, which is often the case, the pa-tient must be restricted to a low diet, frequent purges exhibited, and the other excretions kept up, and he should take regular moderate exercise, avoiding what-ever may determine the blood to the head; and to receiver may determine the blood to the head; and to counteract such a tendency, occasional cupping, blisters, issues, &c. may be useful, as well as the shower-bath; but in urgent circumstances, the lancet ought to be freely used. If, on the contrary, there are marks of inamition and debility, a generous diet, with tonic medicines, and other means of strengthening the system, will be proper. The vegetable tonics have not been so successful in this disease as the metallic preparations, particularly the sulphate of zinc, the nitrate of silver, and the ammoniated copper, but this cannot perhaps be so safely persevered in: where the patient is remarkably exsanguineous, chalybeates may answer better; and, in obstinate cases, the arsenical solution might have a cautious trial. In irritable constitutions, sedatives are indicated, as digitalis, opium, &c.: but the free use of opium is restricted by a tendency to congestion in the head. Where syphilis appears to be concerned, a ourse of mercury is proper; in acrofulous habits, bark, or steel, with iodine, soda, and seabathing; and so on.

III. The third division of remedies comes especially

of his body, particularly on one side, is much agitated; In use, where the fits are frequent, or where their rehe foams at the mouth, and thrusts out his tongue,
which often suffers great minry from the muscles of
the lower jaw being affected; he loses all sense of
ful antispaemodics, as wither, muck, valerian, &c.: or ful antispasmodics, as other, musk, valerian, acc.: or strong odours, and in short any thing producing a con-siderable impression on the system. Bark, taken large-ly, might perhaps be more successful on this principle. The disease has sometimes been cured, especially when originating from sympathy, by inspiring fear or horror; and many frivolous charms may, no doubt have taken effect through the medium of the imagination. Also long voyages have removed it, which might especially be hoped for at the age of puberty, particu-larly if a considerable change in the mode of life were made in other respects; those who had lived indolently being obliged to exert themselves, the diet proadapted to the state of the system, &c.

perty analyses to the state of the system, cell of EPILO BIUM. (From em hofbo top, a violet or beautiful flower, growing on a pod.) The name of a genus of plants in the Linnwan system. Class, Octandria; Order, Monogynia.

EPILOBIUM ANGUSTIFOLIUM. Rose-bay-willow herb.

EPHOBRUM ARGUSTIFOLIUM. Rose-bay-willow herb. The young tender shoots cut in the spring, and dressed as asparagus, are little inferior to it.

EPHMO'RIUS. The plant barren-wort.

EPHMO'RIUS. (Fro επι, and μεφο, to divide.) An obsolete term, formerly applied to an unequal pulse.

EPHM'LIS. (From επι, and μυλη, the knee.) The natella or three-hone.

patella or knee-bone

(From επινευω, to nod or incline.)

An unequal pulse.

Epino Tium. (From επι, upon, and νω7ος, the back.) The shoulder-blade.

A pus-

EPINY CTIS. (From  $\varepsilon \pi t$ , and  $vv\xi$ , night.) A pustule, which rises in the night, forming an angry tumour on the skin of the arms, hands, and thighs, of the size of a lupine, of a dusky red, and sometimes of a livid and pale colour, with great inflammation and pain. In a few days it breaks, and sloughs away.

a few days it oreaks, and stonghs away.

EPPACTIS. (From entrack)on, to coagulate.) A plant mentioned by Dioscorides; and so named because its juice was said to coagulate milk.

EPPARATY'SMUS. (From em, upon, and παροξυσμος, a paroxysm.)

An unusual frequency of febrile

μος, à paroxysm.)

EPIPA'STUM. (From επt, upon, and πασσω, to sprinkle.) Any powdered drug sprinkled on the body. EPIPE'CHYS. (From επt, above, and πηχυς, the cubit.) That part of the arm above the cubit.

flame.) 1. Violent inflammation, or burning heat in

Inflame.) I. Violen inflammation, or nothing search any part, attended with pain, tumour, and reduces.
2. A name given by Hippocrates to the shingles.
EPI'PHORA. (From επιφερω, to carry forcibly.)
The watery eye. An involuntary flow of tears. A su-The watery eye. An involute is now the case. A superabundant flowing of a serous or aqueous humour from the eyes. A genus of disease in the class Locales, and order Apocenoses, of Cullen. The humour which flows very copiously from the eye in epiphora, appears to be furnished, not only by the lachrymal gland, but from the whole surface of the conjunctive membrane, Meibomius's glands, and the caruncula lachrymalis; which increased and morbid secretion may be induced from any stimulus seated between the globe of the eye and lids, as sand, acrid fumes, and the like; or it may arise from the stimulus of active inflammation; or from the acrimony of scrofula, measles, small-pox, &c., or from general relaxation. The disease may also arise from a more copious secretion of tears, than the puncta lachrymalia can absorb, or, as is nest common, from an obstruction in the lachrymal canal, in consequence of which the team are prevented from passing freely

from the eye into the nose.

EPIPHRAGMA. The slender membrane which sometimes shuts the peristoma of mosses, as is seen

EPI PHYSIS. (From  $\varepsilon \pi \iota$ , upon, and  $\phi \upsilon \omega$ , to grow.) Any portion of bone growing upon another, but separated from it by a cartilage.

EPPLA'SMA. (From επι, upon, and πλασσαω, to spread.) 1. A poultice.

2. A name for an application of wheat meal, boiled

in hydrelenum, to wounds.

EPIPLO. (From επιπλου, the omentum.) Names compounded of this word belong to parts connected with, or disease of, the epiploon.

EPIPLOCE'LE. (From επιπλου), the omentum,

and κηλη, a tumour.) An omental hernia. A rupture produced by the protrusion of a portion of the omentum. See Hernia omentalis. A rupture |

EPIPLOCOMI'STIS. (From επιπλοού, the omentum, and κομίζω, to carry.) One who has the omentum

Epiploic appendages. See Appendiculæ epiploicæ. EPIPLOU'TIS. (From επιπλοον, the omentum.) An inflammation of the process of the peritonæum, that forms the epiploon or omentum. See Perstonitis. EPIPLOO'MPHALON. (From επιπλοον, the omen-

tum, and  $o\mu\phi a\lambda os$ , the navel.) An omental hernia protruding at the navel.

EPI'PLOON. (From  $\varepsilon \pi i \pi \lambda o \omega$ , to sail over, because it is mostly found floating, as it were, upon the intes-See Omentum.

EPPLOSCHEOCE'LE. (From επιπλοου, the omentum, οσχεου, the scrotum, and κηλη, a tumour or hernia.) A rupture of the omentum into the scrotum, or a scrotal hernia containing omentum

EFIFO LASIS. (From επιπολαζω, to swim on the top.)

1. A fluctuation of humours.

2. A species of chemical sublimation.

EFIFO MA. (From επι, upon, and πωμα, a lid.) An instrument to cover the shoulder in a luxation.

Instrument to cover the shoulder in a luxation. Epipeno, ma. (From επιπωρεω, to harden.) A hard tumour about the joints.
Epipero, vis. (From επιπ')μοσω, to close up.) A spasmodic closing of the lips.
Epipere vis. (From επι, and πυρετ')ω, to be feverish.) A rapid exacerbation in a fever.

180.) A rapid exacerdation in a lever.

Epirice's 181. (From ετι, and ργεω, to become cold.)

An unusual degree of cold, or repetition of rigors.

Epi'rarioe. (From ετι, upon, and ρεωι to flow.)

An influx or afflux of humours to any part.

EPISARCI DIUM. (From ετι, upon, and σαρξ, the flesh.) An anasarca, or dropsy, spread between the skin and flesh.

skin and flesh.

FPISCHIESES. (From επισχώω, to restrain.) A suppression of excretions. It is an order in the class Locales of Cullen's Nosology.

EPISCHIUM. (From επι, upon, and ισχίον, the hip-bone.) The os pubis.

EPISCOPA'L. (From episcopus, a bishop, or mitted dignitary.) Of, or belonging to a bishop: applied to a valve at the orifice between the left auricle and ventricle of the heart. See Mitral valve.

Terrar and the control of the contr draw together.) Those substances which are capable, when applied to the surface of the hody, of producing a serous or puriform discharge, by exeiting a previous state of inflammation. The term, though comprehending likewise issues and setons, is more commonly restricted to blisters—those applications which, exciting inflammation on the skin, occasion a thin scrous fluid to be poured from the exhalants, raise the cuticle, and form the approximate of a worlds. This office. and form the appearance of a vesicle. This effect arises from their strong stimulating power, and to this stimulant operation and the pain they excite, are to be ascribed the advantages derived from them in the treatment of disease. The evacuation they occasion is too inconsiderable to have any material effect.

EPISPHE'RIA. (From επι, and σφαιρα, a sphere called from the spherical shape of the brain.) windings of the exterior surface of the brain; or the winding vessels upon it.

EPISTA GMUS. (From emi, and sagu, to trickle

down.) A catarrh.

EPISTAPHYLI'NUS. (From επι, and ςαφυλη, the

wula.) See Joula.

EPISTA XIS. (From επιξαζω, to distil from.) Bleeding at the nose, with pain or fulness of the head. A genus of disease arranged by Cullen in the class Pyrezia, and order Hamorrhagia.

Persons of a sanguine and plethoric habit, and not yet advanced to manhood, are very liable to be at-tacked with this complaint: females being much less Subject to it than males, particularly after menstruation.

Epistaxis comes on at times without any previous

warning; but at others, it is preceded by a pain and heaviness in the head, flushing in the face, heat and itching in the nostrils, a throbbing of the temporal arteries, and a quickness of the pulse. In some instances a coldness of the feet, and shivering over the

whole body, together with a costive belly, are observed to precede an attack of this hamorrhage.

This complaint is to be considered as of little con-

This complaint is to be considered as of little consequence, when occurring in young persons, being never attended with any danger; but when it arises in those who are advanced in life, flows profusely, and returns frequently, it indicates too great fulness of the vessels of the head, and not unfrequently precedes apoplexy, palsy, &c. and, therefore, in such cases, is to be regarded as a dangerous disease. When this hemorrhage arises in any putrid disorder, it is to be considered as a fatal symptom. considered as a fatal symptom.

In general, we need not be very anxious to stop a discharge of blood from the nese, particularly where there are marks of fulness of the vessels of the head: but if it occurs under a debilitated state of the system, or becomes very profuse, means must be employed to suppress it. These are shiefly of a local the system, or becomes very profuse, means must be employed to suppress it. These are shiefly of a local nature; applying pressure to the bleeding vessels, introducing astringents into the nostrils, as solutions of alum, sulphate of zinc, sulphate of copper, &c. applying cold to the head, or to some very sensible part of the skin, as in the course of the spine, &c. At the same time the patient should be kept in the erect position. If the hamorrhage be of an active character, the antiphlogistic regimen should be carefully observed: the patient kept cool and quiet; the saline cathartics, refrigerants, as nitrate of potassa and the acids, digitalis, diaphoretics, &c. administered internally; and blood may be taken from the temples by leeches, or even from the arm, if the patient be very plethoric. Sometimes, after the failure of other means, closing the posterior as well as anterior outlets from the nose, and preventing the escape of the blood for some time mechanically, has been successful; and this hight be particularly proper, where it was discharged copiously into the fauces, so as to endanger suffocation, on the patient falling asker.

copiously into the rauces, so as we change several con-on the patient failing asleep. EPISTHO'TONOS. (From επισθεν, forwards, and του, to extend.) A spassmodic affection of muscles-drawing the body forwards. See Tetraus. ΕΡΙSΤΟ΄ΜΙΟΝ. (From επι, upon, and ςομα, a mouth.)

1. A stopper for a bottle.

A venthole of a furnace, called the register. Eristro Phalus. (From επι, upon, and ςρεφω, to turn about.) Epistrophia, and Epistrophis. Applied to the first vertebra of the neck, because it turns about

upon the second as upon an axis.

Eur'strophe. (From επιτρεφω, to invert.) I. An inversion of any part, as when the neck is turned

2. A return of a disorder which has ceased EPI'STROPHEUS. (From \$115.00\text{daw}.

EPISTROPHEUS. (From επιςροφαω, to round, because the head is turned upon it.) To cond cervical vertebra. See Deatatus. Epistrophis. See Epistrophalus. The se-

EPITAEVALLE. See Epistopheras. EPITAEVALLE And πετινος to extend.) The beginning and increase of a paroxysm or disease. EPITHE LIUM. The cuticle on the red part of the

EPITHE'MA. (From επι, upon, and τιθημι, to apply.) A term formerly applied to a lotion, fomentation, or

any external application.
EPITHEMA'TIUM. The same.
EPITHESIS. (From επι, and τιθημι, to cover, or lay upon.) The rectification of crooked limbs by means of

The method of curing distenpers by incantation. Epom'is. (From επι, upon, and ωμος, the shoulder.)
The acromion, or upper part of the shoulder.

EPOMPHA LIUM. (From επι, upon, and ομφαλος, the avel.) An application to the navel. EPSOM. The name of a village in Surrey, about erstom. The name of a vinage in Survey, we eighteen miles from London, in the neighbourhood of which is a considerable mineral spring, called Epsom water. Aqua Epsomensis. This water evaporated to dryness leaves a residuum, the quantity of which has been estimated from an ounce and a half in the gallon, the contraction of the contract post of been estimated from an ounce and a pair in the gallon, to five drachms and one scruple. Of the total residuum, by far the greater part, about four or five-sixths, is sulphate of magnesia mixed with a very few muriates, such as that of lime, and probably magnesia, which render it very deliquescent, and increase the bitterness of taste, till purified by repeated crystalliza

There is nothing sulphurous or metallic ever in this spring. The diseases in which it is emfound in this spring. The diseases in which it is em-ployed are similar to those in which we use Seidlitz There are many other of the simple saline

water. There are many other of the simple saline springs that might be enumerated, all of which agree with that of Epsom, in containing a notable proportion of some purging salt, which, for the most part, is either sulphate of magnesia, or sulphate of soda, or often a mixture of both, such as Acton, Kilburne, Bagnigge Wells, Dog and Duck, St. George's Fields, &c. Ersom salt. A purging salt formerly obtained by boiling down the mineral water found in the vicinity of Epsom in Surrey. It is at present prepared from sea water, which, after being boiled down, and the muriate of soda separated, deposites numerous crystals, that consist chiefly of sulphate of magnesia, and sold in the shops under the name of sal catharticus amarus, or bitter purging salt. See Magnesia sulphase.

or hitter purging sait. See Magnesie sulphas.

EPU'LIS. (From en, and oula, the gums.) A small tubercle on the gums. It is said sometimes to

small tubercle on the gums. It is said sometimes to become cancerous.

EPULO'TIC. (Epuloticus; from crovlow, to cicatize.) A term given by surgeons to those applications which promote the formation of skin.

EQUISE'TUM. (From equue, a horse, and seta, a bristle: so named from its resemblance to a horse's tail.) 1. The name of a genus of plants in the Linmean system. Class, Cryptogamia; Order, Filices.

2. The pharmacopeial name of the Cauda equina. See Himpris pulgaris.

See Hippuris vulgaris.

See Hippuris vuigaris.
Equistrum anvense. See Hippuris ulgaris.
EQUITANS. Equitant. This term is applied to
leaves, which are disposed in two opposite rows, and
clasp each other by their compressed base; as in Nar-

class each other by their compressed base; as in Narthecium ossijragum.

EQUIVALENTS. A term introduced into chemistry by Dr. Woltaston, to express the system of definite
ratios, in which the corpuscular objects of this science
reciprocally combine, referred to a common standard,
reckoned unity. See Atomic system.

E'QUUS. 1. The horse.

The name of a genus of animals of the order

Bellua

Equus asinus. The systematic name of the animal called an ass; the female affords a light and nutritions milk. See Milks, asses.

Era'nthemus. (From ηρ, the spring, and ανθεμος, a flower; so called because it flowers in the spring.) A sort of 'chamomile.

ERASISTRATUS. A celebrated Greek physician, said to have been born in the island of Ceos, and cian, said to have been born in the island of Ceos, and to have been the most distinguished pupil of Chrysippus, of the Cnidian school. He was the first, in conjunction with Herophilus, to dissect human bodies, anatomy having been before studied only in brutes; but the Ptolemies having allowed them to examine malefactors, they were enabled to make many important discoveries. Celsus notices a very improbable report, that they opened the bodies of those persons alive, to observe the internal motions; they could hardly then have maintained, that the arteries and left ventriele, do not naturally contain blood, but air only. ventricle, do not naturally contain blood, but air only. The works of Erasistratus, which were nunerous, are lost; but, from the account of Galen, he appears to have very accurately described the brain, which he considered as the common sensorium; also the heart considered as the common sensorium; also the heart and large vessels; and pointed out the office of the liver and kidneys; but he supposed digestion performed by trituration. He imagined inflammation and fever to arise from the blood being forced through the minute veins into the corresponding arteries. He was averse to blood-letting, or the use of active medicines, but sometimes employed mild clysters; trusting, however, principally to abstinence, and proper exercise. Being tormented with an ulcer in the foot, at an extreme old age, he is said to have terminated his existence by roison.

istence by poison. ERATE'VA MARMELOS. ERATE'VA MARMELOS. This plant, a native of several parts of India, affords a fruit about the size of severa parts of India, anoros a trun about the Size of an orange, and covered with a hard bony shell, con-taining a yellow viscus pulp, of a most agreeable fla-vour; which, when scooped out, and mixed with sugar and orange, is brought to the tables of the grandees in India, who cat it as a great delicacy. It is also esteemed as a sovereign remedy against dysentory.

dysentery. Errbinthus. Epcbivdos. The vetch.

ERE'CTOR. The name of several muscles, the office of which is to raise up the part to which they are

ERECTOR CLITORIDIS. First muscle of the clitoris of Douglas. Ischio-cavernosus of Winslow, and Ischio-clitoridien of Dumas. A muscle of the clitoris that draws it downwards and backwards, and serves to make the body of the clitoris more tense, by squeez-ing the blood into it from its crus. It arises from the tuberosity of the ischium, and is inserted into the

ERECTOR PENIS. Ischio-cavernosus of Winslow, ERECTOR PRNS. Ischio-cavernosus of Winslow, and Ischio-cavernosus of Dumas. A muscle of the penis that drives the urine or semen forwards, and, by grasping the bulb of the urethra, pushes the blood towards the corpus cavernosum and the glans, and thus distends them. It arises from the tuberosity of the ischium, and is inserted into the sides of the cavernous substance of the next.

distant and is inserted measured in schium, and is inserted measured the penis.

ERECTUS. Upright. Botanists use this to express the direction of the stem, branches, leaves, petals, stamens, pistils, &c.; as Caulis erectus, an upright stem, as in Lystmackia vulgaris; folium erectum, forming an acute angle with the stem, as in funcus forming an acute angle with the stem, as in funcus culatus, &cc. The petals of the [Brasica translatus]

erecta.

ERETHI'SMUS. (From epolico, to excite or irritate.) Increased sensibility and irritability. It is variously applied by modern writers. Mr. Pearson has described a state of the constitution produced by mercury acting on it as a poison. He calls it the mercurial erithiemus, and mentions that it is characterized by great depression of strength, anxiety about the precordia, irregular action of the heart, frequent significant entry of the precordia, irregular action of the heart, frequent significant entry of the precordia, irregular action of the heart, frequent significant entry of the precording pulse, occasional vomiting, a pale, contracted countenance, a sense of coldness; but the tongue is seldom furred, nor are the vital and natural functions much disturbed. In this state, any sudden exertion will sometimes prove fatal. sometimes prove fatal.

sometimes prove fatal.

ERGARTÉRIUM. (From soyov, work.) A laboratory: that part of the furnace in which is contained the matter to be acted upon.

ERI CA. (From spakes, to break; so named from its fragility, or because it is broken into rods to make besome of.) The name of a genus of plants in the Linnaan system. Class, Octandria; Order, Monogynia. Heath.

ERICE'RUM. (From ερεικη, heath.) A medicine in which heath is an ingredient.

which neath is an ingreeient.

ERI GERON. (Ηρυγερων, of the ancient Greeks; from ηρ the spring, and γερων, an old man, because, in the spring, it has a white, hoary blossom, like the hair of an old man.) 1. The name of a genus of plants. Class, Syngenesia; Order, Polygamia superflua.

2. The common chick-weed is so called in old books.

2. The common emer-ween is so cancer in See Senceio vulgaris.

ERIGERUM. See Senceio vulgaris.

ERO'SION. (Erosio; from erodo, to gnaw off.)

This word is very often used in the same sense as ulceration, viz. the formation of a breach or chasm in the substance of parts, by the action of the absor-

EROSUS. Jagged. A leaf is called folium crosum, the margin of which is irregularly cut or notched, especially when otherwise divided besides; as in Se-

EROTIA'NUS, the author of a Glossary, containing an explanation of the terms in Hippocrates, lived in the reign of Nero. The work was printed at Venice, in 1566; and also annexed to Foesius's Edition of Hippocrates.

EROTOMA'NIA. (From ερως, love, and μανια, adness.) That melancholy, or madness, which is the effect of love.

E'RPES. (From ερπω, to creep: so named from their

E'REES. (From corro, to creep: so named from their gradually increasing in size. See Herpes.

ERRATIC. (Erratious; from crro, to wander.)
Wandering; irregular. A term occasionally applied to pains, or any disease which is not fixed, but moves from one part to another, as gout, rheumatism, &c. ERRIHINE. (Errhemus; copyra, from cy, in, and on, the nose.) By errhines are to be understood those medicines which, when topically applied to the internal membrane of the nose, excite sneezing, and increase the secretion, independent of any mechanical

irritation. The articles belonging to this class may be |

referred to two orders.

1. Sternutatory errhines; as nicotiana, helleborus, euphorbium, winch are selected for the torpid, the vigorous, but not plethoric, and those to whom any degree of evacuation would not be huritui.

2. Evacuation prohime.

degree of evacuation would not be hurtful.

2. Encausting errhines; as assuum, &c. which are calculated for the phlegmatic and infirm.

ERROR LOCI. Boerhaave is said to have introduced this term, from the opinion that the vessels were of different sizes, for the circulation of blood, lymph, and serum, and that when the larger sized globules were forced into the less vessels, they became obstructed, by an error of place. But this opinion does not appear to be well-grounded.

ERUCA. (From crugo, to make smooth; so named from the smoothness of its leaves, or from uro, to burn, because of its biting quality.) See Brassica

ERUCA SYL'VESTRIS. The wild rocket. See Bras-

tica cruca.

ERUCTATION. Belching.
ERUPTION. Eruptio. A discoloration, or spots on the skin; as the cruption of small-pox, measles, nettle-rash, &c.

(From ερυθω, to make red.) A fiery

FRUTHENA. (From copulo, to make red.) A flery red tumour, or pusuales on the skin.

ETRYUM. (Quast aroum, a field, because it grows wild in the fields; or from orno, to plack out, because it is diligently plucked from com.) The tare. I. The name of a genus of plants in the Linnwan system. Class, Proadelphia; Order, Procandra.

2. The pharmacopoial name of tare. See Ervum

ERVINGIMM. Orobus. The seeds of this plant, ERVINGIMM. Orobus. The seeds of this plant, Erveum credius—germinubus undataphicatus, folius imparipinuates of Linneus, have been made into bread in times of scarcity, which is not the most salubrious. The meal was formerly among the resolvent remedies by way of poultie.
ERVUM LEMS. The systematic name of the lentil. Leus. Φακος of the Greeks. Erveum—pedumeulis subbiflores; seminibus compressis, converis, of Linneus. There are two varieties; the one with large, the other with small seeds. They are caten in many places as we eat pease, than which they are more flatilent, and more difficult to digest. A decoction of these seeds is used as a lotion to the ulcerations after small-pox and, it is said, with success.
ERY/NGIUM. (From ερυγγανω, to eructate.) Eryngo, or sea-holly. 1. The name of a genus of plants in the Linnean system. Class Pentandria; Order, Digynia.

plants in the Linna-Order, Digynia.

2. The pharmacopæial name of the sea-holly. See

2. The pharmacopelal name of the sea-holly. See Engagement maritimum.

["Exprogram aquaticum is a native of the southern states. We are told in Mr. Elliott's botany, that the root is of a pungent, bitter, and aromatic taste. When chewed, it very sensibly excites a flow of saliva. A decoction of it is diaphoretic and expectorant, and sometimes proves emetic. It is preferred by some physicians to the Sengera snake-poul, which it much resembles in its the Seneca snake-root, which it much resembles in its Fects." A.] ERYNGIUM CAMPESTRE.

Cliests." A.]

ERYNGIUM CAMPESTRE. The root of this plant,

E-yogeam—folus radicalibus, amplexicaulibus, pin
natio-lancolatus, of Linnaus, is used in many places

for that of the scae-crygo. See Eryngium.

ERYNGIUM MARTIMUM. The systematic name of

the sea-holly or eryngo. Eryngium—folus radicalibus

subrotundis, plicatis spinosis, capitulis pedunculatis,

paleis tricuspidatis, of Lannaus. The root of this

plant is directed for medical use. It has no particular

smell, but to the taste it manifests a grateful sweet
ness: and, on heims chewed ior some time, it discovers smell, but to the taste it maintees a great mass; and, on being chewed for some time, it discovers a light aromatic warmth or pungency. It was formerly eclebrated for its supposed aphrodisiae powers, but it is now very rarely employed.

it is now very rarely employed.

BRYMGO. See Engaguam.

Eryngo, sea. See Erynguam.

Eryngo, sea. See Erynguam.

BRY SIMUM. (From como, to draw, so called from its power of drawing and producing blisters. Others derive it from ano row contextry, because the leaves are much cut; others from eperagor, pieceous.) 1. The name of a genus of plants in the Linnacan system. Class, Tetradynamia; Order, Seliquosa.

2. The pharmacopæial name of the hedge-mustard.

See Erysimum officinale.
ERYSIMUM ALLIARIA. See Erystams officinate.

Enviroum albianta. The systematic name of Jack-in-the-hedge. Alliaria; Chamaplion of Oribasius. Sauce alone, or stinking hedge-mustard. The plant to which this name is given, is the Erysinum jokus cordates, of Linneus; it is sometimes exhibited in the stilling and decrease with the control of t in humid asthma and dyspnæa, with success. Its virtues are powerfully diapheretic, diuretic, and antiscorbutic.

ERYSMUM BARBAREA. The systematic name of the barbarea of the shops. The leaves of this plant, Erysimum—joliis lyratis, extenso subrotundo of Linnæus, may be ranked among the antiscorbutics. They

are seidom used in practice.

ERYSIMUM OFFICINALE. The systematic name of the hedge-mustard. Erysimum-siliquis spice ad-pressis, foli's runcinatis, of Limaus. It was former-ly much used for its expectorant and directic qualities, which are now forgotten. The seeds are warm and pungent, and very similar to those of mustard in their

sensible effects.

ERYSTPELAS. (From ερνω, to draw, and πελας, adjoining: named from the neighbouring paris being affected by the cruption.) Ignis sacer. The rose, or St. Anthony's fire. A genus of disease in the class Pyrexia, and order Exantemata of Cullen. It is known by synocha of two or three days' continuance, with drowsiness, and sometimes with delicum; pulse commonly full and hard; then erythema of the tace, or some other part, with continuance of synocha, tending either to abscess or gangrene. There are two species at this disease, according to Cullen: 1. Erysteins species of this disease, according to Cullen: I. Erysipelas vesiculosum, with large blisters; 2. Erysipelas phlyctanaics, the shingles or an erysipelas with phlyc-

phlyctu nodes, the shingles or an eryspecias with pulyc-tenia, or small blatters in flammatory affection, princi-polly of the skin, when it makes its appearance ex-ternally, and of the interiors membrane when it is scated internally; and is more hable to attack women and children, and those of an irritable habit, than those of a plethoric and robust constitution

It is remarkable that crysipelas sometimes returns periodically, attacking the patient once or twice a year, or even once every month, and then by its repeated attacks it often gradually exhausts the strength, especially it he be old and of a bad habit.

When the inflammation is principally confined to the skin, and is unattended by any affection of the sys-tem, it is then called crythema; but when the system

tem, it is then cauded crystema; but when the system is affected, it is named erysipelas.

Every part of the body is equally liable to it, but it more frequently appears on the face, legs, and feet, than any where else, when seated externally; and it occurs oftener in warm climates than phlegmonous

It is brought on by all the causes that are apt to excite inflammation, such as injuries of all kinds, the external application of stimulants, exposure to cold, and obstructed perspiration; and it may likewise be occasioned by a certain matter generated within the body, and thrown out on its surface. A particular state of the atmosphere seems sometimes to render it

epidemical.

In slight cases, where it attacks the extremities, it In slight cases, where it attacks the extremities, it makes its appearance with a complness, heat, pain, and reduces of the skin, which becomes pale when the finger is pressed upon it, and again returns to its former colour, when it is removed. There prevails likewise a small febrile disposition, and the patient is rather hot and thirsty. If the attack is mild, these symptoms will continue only for a few days, the surface of the part affected will become yellow, the cuticle or scarf-skin will fall off in scales, and further inconversions. part affected will become yellow, the cuticle or scarf-skin will full off in scales, and no further inconve-nience will perhaps be experienced; but if the attack has been severe, and the inframmatory symptoms have run high, then there will ensue pains in the head and back, great heat, thirst, and restlessness; the part affected will slightly swell; the pulse will become small and frequent; and about the touth day, a num-ber of little vesicles, containing a limpid, and, in some cases, a yellowish third, will arise. In some instances, the fluid is viscud, and instead of running out, as gene-rally happens wheat the bister is broken, it adheres to rally happens when the blister is broken, it adheres to and dries upon the skin.

In unfavourable cases, these blisters sometimes degenerate into obstinate ulcers, which now and them become gaugrenous. This, however, does not happen frequently; for although it is not uncommon for the surface of the skin and the blistered places to appear livid, or even blackish, yet this usually disappears with the other symptoms.

the other symptoms.

The period at which the vesicles show themselves is very uncertain. The same may be said of the duration of the cruption. In mild cases, it often disappears gradually, or is carried off by spontaneous sweating. In some cases it continues, without showing any discretical cases in the continues of the continues of the continues of the continues of the continues. position to decline, for twelve or fourteen days, or

The trunk of the body is sometimes attacked with erysipelatous inflammation, but less frequently so than erysipolatous inflammation, but less frequently so than the extremities. It is not uncommon, however, for infants to be attacked in this manner a few days after birth; and in these it makes its appearance about the genitals. The inflamed skin is hard, and apparently very painful to the touch. The belly often becomes uniformly tense, and sphacelated spots sometimes are to be observed. From dissections made by Dr. Underwood, it appears, that in this form of the disease the inflammation fragmatile specials to the adduntinal the inflammation frequently spreads to the abdominal viscera

Another species of erysipelatous inflammation, which most usually attacks the trunk of the body, is that vulgarly known by the name of shingles, being a corruption of the Frenci word eeingle, which implies a belt. Instead of appearing a uniform inflamed surface, it consists of a number of little pinguise extending round the body a little above the umbilicus, which have vesicles formed on them in a short time. Little or no danger ever attends this species of erysi-

When erysipelas attacks the face, it comes on with When crysipelas attacks the face, it comes on with chilliness, succeeded by heat, restlessness, thirst, and other febrile symptoms, with a drowsiness or tendency to come or delirium, and the pulse is very frequent and full. At the end of two or three days, a fiery redness appears on some part of the face, and this extends at length to the scalp, and then gradually down the neck, leaving a tumefaction in every part the redness has occupied. The whole face at length becomes turfied and the available areas much swelled as to denive neck, leaving a tunefaction in every part the redness has occupied. The whole face at length becomes turgid, and the eyelids are so much swelled as to deprive the patient of sight. When the redness and swelling have continued for some time, blisters of different sizes, containing a thin colourless acrid liquor, arise on different parts of the face, and the skin puts on a livid appearance in the blistered places; but in those not affected with blisters, the cuticle, towards the close of the disease, falls off in scales.

No remission of the fever takes place on the appearance of the inflammation on the face; but, on the con-

ance of the inflammation on the face; but, on the contrary, it is increased as the latter extends, and both will continue probably for the space of eight or ten days. In the course of the inflammation, the disposition to coma and delirium are sometimes so increased as to destroy the patient between the seventh and eleventh days of the disease. When the complaint is mild, and not leading to a fatal event, the inflammation and fever generally cease gradually without any

evident crisis.

If the disease arises in a bad habit of body, occupies a part possessed of great sensibility, is accompanied with much inflammation, fever, and deliritin, and these take place at an early period, we may suppose the patient exposed to imminent danger. Where translations of the morbid matter take place, and the inflammation falls on either the brain, lungs, or abdoinflammation falls on either the brain, lungs, or abdo-minal viscera, we may entertain the same unfavoura-ble opinion. Erysipelas never terminates in suppura-tion, unless combined with a considerable degree of phlegmonous inflammation, which is, however, some-times the case; but in a bad habit, it is apt to termi-nate in gangrone, in which case there will be also great danger. When the febries symptoms are mild, and unaccompanied by delirium or coma, and the inflammation does not run high, we need not be appre

hensive of danger.

Where the disease has occupied the face, and proves fatal, inflammation of the brain, and its consequences,

natar, minamination of the brain, and its consequences, are in some cases met with on dissection.

The treatment of crysipelas must proceed on the antiphlogistic plan, varied however in its activity according to the type of the disease. When it occurs in robust plethoric constitutions, partaking of the paleginonous character, with severe synochal fever, it will

be proper to begin by taking a moderate quantity of be proper to begin by taking a monerate quantity of blood, then direct cooling saline purgatives, antimonial diaphoreties, a light vegetable diet, &c. When the disorder attacks the face, it may be better to use cup-ping behind the neck, and keep the head somewhat raised. But if the disease exhibits rather the typhoid type, and particularly where there is a tendency to gangrene, the patient's strength must be supported: after clearing out the prime viæ, and endeavouring to promote the other secretions by mild evacuants, when the pulse begins to fail, a more nutritious diet, with a moderate quantity of wine, and the decoction of bark with sulphuric acid, or other tonic medicine, may be with sulphuric acid, or other tonic medicine, may be resorted to; nay, even the bark in substance, and the more powerful stimulants, as ammonia, &c. ought to be tried, if the preceding fail. Should the inflammation, quitting the skin, attack an internal part; a blister, or some rubefacient, may help to relieve the patient; and stimulants to the lower extremities will likewise be proper, where the head is severely affected. To the inflamed part of the skin, applications must not be too freely made: where there is much pain and heat, cooling it occasionally, with plain water, is perhaps best; and where an acrid discharge occurs, washing it away from time to time with warm milk and water. Should suppuration happen, it is important to make an early opening for the escape of the matter, to obviate the extensive sloughings otherwise apt to follow, and where gangrene occurs, the fermenting cataplasm may be applied.

tonow, and where gangrene occurs, are termenting cataplasm may be applied. ERYTHE MA. (From ερωθρος, red.) Inflammatory blush. A morbid redness of the skin, as is observed upon the cheeks of hectic patients after eating,

serveu upon the cheeks of necuse patients after eating, and the skin covering bubb, philegmon, &c. ERYTHRO DANUM. (From coubpos, red: so called from the colour of its juice.) See Rubia tinctorum. ERYTHROET DES. (From coubpos, red, and close, a likeness: so called from its colour.) A name given to the tunion variancial testis. the tunica vaginalis testis.

ERYTHRO'NIUM. (From ερυθρος, red: so called from the red colour of its juice.) A species of satyrion.
["ERYTHRONIUM AMERICANUM. The Erythronium

["ERVITHONIUM AMERICANUM. The Erythronium Americanem is an emetic in its recent state, producing vomiting in the dose of thirty or forty grains. This property is impaired by drying. The affinity of the plant to Colchicum, and some others of known activity, renders, it deserving of further investigation. The bulbs should be dug when the leaves first appear, become drawn to the contract of the con fore flowering. A pure fecula may be obtained from them."—Big. Mat. Med. A.]

ERYTHRO XYLUM. (From spoufpos, red, and {v\lambda v, wood: so named from its colour.). Logwood. See

Hamatorylum.

E'RYTHRUS. (From ερυθρος, red: so named from the red colour of its juice.) The sumach. See Rhus

E'SAPHE. (From εσαφαω, to feel.) The touch; or feeling the mouth of the womb, to ascertain its con-

dition.
E'SCHAR. (Εσχαρα; from εσχαροω, to scab over.)
Eschara. The portion of flesh that is destroyed by
the application of a caustic, and which sloughs away.
ESCHARO'TIC. (Escharoticus; from εσχαροω, to
scab over.) Caustic; corrosive. A term given by
surgeons to those substances which possess a power of
destroying the texture of the various solid parts of the
animal body to which they are directly applied. The
articles of this class of substances may be arranged
under two orders: under two orders:

1. Eroding escharotics; as blue vitriol, alumen ustum, &c.

2. Caustic escharotics; as lapis infernalis, argents

2. Caustic escarraces; as topis injernaus, argents nitras, acidum sulphiuricum, nitricum, sec.
ESCULENT. Esculentus. An appellation given to such animnis, fishes, and plants, or any part of them, that may be caten for food.
E'SOX. The name of a genus of fishes. Class,

E'SOX. The name of a genus of fishes. Class, Pisces; Order, Abdominales.

Esox Lucius. The systematic name of the pike fish, from the liver of which an oil is separated spontaneously, which is termed, in some pharmacopenias, oleum lucii piscis. It is used in some countries, by surgeons, to destroy spots of the transparent cornea. ESSENCE. Several of the volatile or essential oils are called by this name.

ESSENTIAL. Essentialis. Something that is necessary to constitute a thine, or that has such a consequence.

cessary to constitute a thing, or that has such a con-

etances which mark or distinguish an animal or plant from all others in the same order or genus. Essg'NTAL OIL. See Oil. E'SSERA. (Essera, from Eshera, an Arabian word literally meaning papula.) A species of cuta-neous eruption, distinguished by broad, shining, smooth, red spots, mostly without fever, and differing from the nettle-rash in not being elevated. It generally stacks the free and hands.

Itom the nettle-rash in not being elevated. It generally attacks the face and hands.

Батнюмкнов. (From εσθιω, to eat.) 'A term formerly applied to any disease which rapidly destroyed, or, as it were, ate away the flesh, as some forms of herpes, tupus, cancer.

ESULA. (From esus, eaten, because it is eaten by some as a medicine.) Spurge.

ESULA MINOR. See Euphorbia palustris.

ESULA MINOR. See Euphorbia cyparissias.

ETHER. See Exter.

ETHER. See Atther

ETHER, ACETIC. Acetic naphtha. An ethereal fluid drawn over from an equal admixture of alkohol and Grawn over from an equal admixture of ancond and a glass rector in a sund-bath. It has a grateful smell, is extremely light, volatile, and inflammable.

ETHER MITERATURE Marine ather. Muriatic when is obtained by fixing and distilling alkelole with extremely encentrated muriate of un. It is stimulant,

antiseptic, and diuretic.

ETHER, NITROUS. Nitric naphtha. stronger preparation than the spiritus wither is nitrici of the London Pharmacopæia; it is produced by the distillation of two parts of alkohol to one part and a half of fuming nitric acid.

See Ether sulphuricus. ETHER, SULPHURIC. ETHER, SULPHERE. See Eliker sulphurieus.
ETHER, VITHOLIC. See Eliker sulphurieus.
ETHEREAL. A term applied to any highly rectified essential oil, or spirit. See Oleam atherina.
Ethiops, antimonia. See Ælthiops antimonialis.
Ethiops, martial. The black oxide of iron.
Ethiops mineral. See Hydrargyri sulphuretum ni-

Ethiops per se. See Hydrargyri oxydum cinereum. ETHMOID. (Ethmoides; itom εφμος, a sieve, and ατόος, form: because it is perforated like a sieve.)

ETHMOID BONE. Os ethmoideum; os athmoides. Cribriform bone. A bone of the head. This is, perhaps, one of the most curious bones of the human body. It appears almost a cube, not of solid bone, but exceedingly light, spongy, and consisting of many convoluted plates, light, sponey, and consisting of many convoluted plates, which form a net-work, like honey-comb. It is curriously enclosed in the os frontis, between the orbitary processes of that bone. One horizontal plate receives the offactory nerves, which perforate that plate with such a number of small holes, that it resembles asieve; whence the bone is named cribriform, or ethmoid bone. Other plates dropping perpendicularly from this one, receive the divided nerves, and gave them an opportunity of expanding into the organ of smelling; and portunity of expanding into the organ or smelling; and these bones, upon which the olfactory nerves are spread out, are so much convoluted as to extend the surface of this sense very greatly, and are named spongy bones. Another that plate lies in the orbit of the eye; and being very smooth, by the rolling of the eye, it is named the os planum, or smooth bone. So that the ethmoid bone supports the forepart of the brain, receives the olfactory nerves, forms the organ of smelling, and makes the chief part of the orbit of the eye; and the sporty house, and the os plantan, are neither of them distinct house, but parts of this ethnicid bone. The cribriform plate is exceedingly delicate and thin; lies horizontally over the root of the nose; and

fills up neatly the space between the two orbitary plates of the frontal-bone. The olfactory nerves, like puttes of the frontal-bone. The olfactory nerves, like two small flat lobes, lie out upon this plate, and, allering to it, shoot down like many roots through this bone, so as to perforate it with numerous small holes, as if it had been dotted with the point of a pin, or like a nutmeg-grater. This plate is horizontal; but its processes are perpendicular, one above, and three below.

1. The first perpendicular process is what is called crista galli; a small perpendicular projection, samewhat like a cock's comb, but exceedingly small, standwy

nexion with the nature of a thing, that is found wherever the thing itself is; thus the heart, brain, spinal marrow, lungs, stomach, &c. are parts essential to life.

In natural instory, it is applied to those circumstances which mark or distinguish an animal or plant the most of the fair, or septum, begins from this process. ing directly upwards from the middle of the cription plate, and dividing that plate into two; so that one ob-factory nerve lies upon each side of the crista galli; and the root of the falx, or septum, between the two hemispheres of the brain, begins from this process. The foramen execum, or blind hole of the fromad bone, is formed partly by the root of the crista galli; which is very smouth, and sometimes it is said believed. is very smooth, and sometimes, it is said, hollow, or cellular.

3. Exactly opposite this, and in the same direction with it, i. e. perpendicular to the ethmoid plate, stands out the nasal plate of the ethmoid bone. It is sometimes called azygous, or single process of the ethmoid, and forms the beginning of that septum, or partition, which divides the two nostrils. This process is thin but firm, and composed of sold bone; it is commonly inclined a little to one side, so as to make the nostrils of unequal size. The azygous process is united with the vomer, which forms the chief part of the partition; so that the septum, or partition of the nose, consists of the azygous process of the ethmoid bone above, of the vomer below, and of the cartilage in the fore or projecting part of the nose; but the cartilage rosts away, so that whatever is seen of the septum in the skull must be part either of the ethmoid bone or vomer.

2. Upon either side of the septum, there hangs down 3. Exactly opposite this, and in the same direction

2. Upon either side of the septum, there hangs down 2. Upon either side of the septum, there hangs down a spongy bone, one hanging in each nostril. They are each rolled up like a scroll of parchment; they are very spongy; are covered with a delicate and sensible membrane; and when the olfactory nerves depart from the clibriform plate of the ethnoid bone, they attach themselves to the septum, and to these upper spongy bones, and expand upon them so that the convolutions of these bones are of material use in expanding the organ of swelling, and detaining the odorous effluvia till the impression be perfect. Their convolutions are more numerous in the lower animals, in preemuvia till the impression be perfect. Their convoit tions are more numerous in the lower animals, in proportion as they need a more acute sense. They are named spongy or turbinated bones, from their convolutions resembling the many folds of a turban.

The spongy bones have a great many honey-comblike cells connected with them, which belong also to the organ of smell, and which are useful perhaps by

detaining the cilluvia of odorous bodies, and also by reverberating the voice. Thus, in a common cold, while the voice is hurt by an affection of these cells,

the sense of smelling is almost lost.

the sense of smelling is almost lost.

4. The orbitary plate, of the ethnoid bone, is a large surface; consisting of a very firm plate of bone, of a regular square form: exceedingly smooth and polished; it forms a great part of the socket for the eye, lying on its innor side. When we see it in the detached bone, we know it to be just the flat side of the cthmoid bone; but while it is incased in the socket of the eye, we should believe it to be a small square bone; and from this, and from its smoothness, it has got the distinct name of os planum.

The cells of the ethnoid bone, which form so important a share of the organ of smell, are arranged in great numbers along the spongy bone. They are small neat cells, much like a honey-comb, and regularly arranged in two rows, parted from each other by a thin partition; so that the os planum seems to have one set of cells attached to it, while another regular set.

one set of cells attached to it, while another regular set of cells belongs in like manner to the spongy hones. There are thus twelve in number opening into each

other, and into the nose.

These cells are frequently the seat of venereal ulcers; and the spongy bones are the surface where polypi often sprout up. And from the general connexions and forms of the bone, we can easily understand how the venereal ulcer, when deep in the nose, having get to venereal ulcer, when deep in the nose, naving got these cells, cannot be cured, but undermines all the face; how the venereal disease, having affected this nose, soon spreads to the eye; and how even the beam back is not saie. We see the danger of a blow upon the nose, which, by a force upon the septum, or middle partition, may depress the delicate cribriform plate, so we to consess the brain with all the effects of a fraction of the contraction partition, may appear the include criterion pairs, so as to oppress the brain with all the effects of a frac-tured skall, and without any operation which can give relief. And we also see the danger of pulling away polypi, which are firmly attached to the upper spongy bone. ETHMOIDES. See Ethmoid bone.

ETMULLER, MICHAEL, was born at Leipsic, in 1644. He graduated there at the age of twenty-four, after going through the requisite studies, and much intproving himself by travelling through different parts of Europe. Eight years after he was appointed professor Europe. Eight years after he was appointed professor of botany in that University, as well as extraordinary professor of surgery and anatomy. He fulfilled those offices with great applause, and his death, which happened in 1683, was generally regretted by the faculty of Leipsic. He was a very voluminous writer, and his norther ware considered to be applications. his works were considered to have sufficient merit to

Ins works were considered to have sunifier there to be translated into most European languages. Ε'ΤRON. (From soω, to eat, as containing the receptacles of the food.) The hypogastrium. ΕυΔ'ΝΥΠΕΜΟΜ. (From so, well, and ωνθεμος, a flower: so named from the beauty of its flowers.) The chamomile.

Eul'phium. (From  $\varepsilon v$ , well, and  $a\phi \eta$ , the touch, so called because its touch was supposed to give ease.) A medicine for the piles.

EUCHLORINE. See Chlorous oxide.

EUCLASE. The prismatic emerald.
EUDIALITE. A brownish red-coloured mineral, be-

longing to the tessular system of Molis.

EUDIO METER. An instrument by which the quantity of oxygen and nitrogen in atmospherical air quantity of oxygen and nitrogen in atmospherical air can be ascertained. Several methods have been employed, all founded upon the principle of decomposing common air by means of a body which has a greater affinity for the oxygen. See Eudiometry.

EUDIOMETRY. The method of ascertaining the purity of atmospheric air.

No sooner was the composition of the atmosphere known, than it became an inquiry of importance to find out a method of ascertaining, with facility and precision the relative quantity of oxygengas contained

precision, the relative quantity of oxygengas contained in a given bulk of atmospheric air.

The instruments in which the oxygen gas of a de-

termined quantity of air was ascertained, received the name of Eudiometers, because they were considered as measures of the purity of air. They are, however,

more properly called Oximeters. The eudiometers proposed by different chemists, are

the following:

I. Priestley's Eudiometer.—The first eudiometer was made in consequence of Dr. Priestley's discovery, that when nitrous gas is mixed with atmospheric air over water, the bulk of the mixture diminishes rapidly, in consequence of the combination of the gas with the oxygen of the air, and the absorption of the nitric acid thus formed by the water.

When nitrous gas is mixed with nitrogen gas, diminution takes place; but when it is mixed with oxygen gas, in proper proportions, the absorption is complete. Hence it is evident, that in all cases of a mixture of these two gases, the diminution will be proportional to the quantity of the oxygen. Of course it will indicate the proportion of oxygen in give, and by will indicate the proportion of oxygen in air; and, by mixing it with different portions of air, it will indicate the different quantities of oxygen which they contain, provided the component parts of air be susceptible of variation.

Dr. Priestley's method was to mix together equal bulks of air and nitrous gas in a low jar, and then transfer the mixture into a narrow graduated glass tube transfer the mixture into a narrow graduated glass tube about three feet long, in order to measure the diminution of bulk. He expressed this diminution by the number of hundredth parts remaining. Thus, suppose he had mixed together equal parts of nitrous gas and air, and that the sum total was 200 (or 2.00); suppose the residuum, when measured in the graduated tube, to amount to 104 (or 1.04), and of course that 96 parts of the whole had disappeared, he denoted the purity of the air thus tried by 104.

This method of analyzing air by means of nitrous gas is liable to many errors. For the water over which

the experiment is made may contain more or less carthe experiment is made may contain more or less Car-bonic acid, atmospheric air, or other heterogeneous substance. The nitrous gas is not always of the same purity, and is partly absorbed by the nitrous acid which is formed; the figure of the vessel, and many other circumstances are capable of occasioning con-siderable differences in the results. Fontana, Cavendish, Ladriani, Magellan, Von Hum-boldt, and Dr. Falconer, have made series of laborious experiments to bring the test of nitrous gas to a state.

experiments to bring the test of nitrous gas to a state of complete accuracy; but, notwithstanding the exer-tions of these philosophers, the methods of analyzing air by means of nitrous gas are liable to so many anomalies, that it is unnecessary to give a particu-

lar description of the different instruments invented by them.

by them.

2. Schele's Eudiometer.—This is merely a graduated glass cylinder, containing a given quantity of air, exposed to a mixture of iron filings and sulphur, formed into a paste with water. The substances may be made into a paste with water.

Into a paste with water. The substances may be made use of in the following manner:

Make a quantity of sulphur in powder, and iron filings, into a paste with water, and place the mixture in a saucer, or plate, over water, on a stand raised above the fluid; then invert over it a graduated beliglass, and allow this to stand for a few days. The air contained in the bell-glass will gradoally diminish, as will appear from the ascent of the water.

When no further diministing takes always.

When no further diminution takes place, the vessel containing the sulphuret must be removed, and the remaining air will be found to be nitrogen gas, which was contained in that quantity of atmospheric air

was contained in that quantity of atmospheric air. In this process, the moistened sulpluret of iron has a great affinity to oxygen; it attracts and separates it from the atmospheric air, and the nitrogen gas is left behind; the sulphur, during the experiment, is converted into sulphuric acid, and the iron oxidized, and sulphur of iron results. sulphate of iron results.

sulphate of from results.

The air which is exposed to moistened iron and sulphur, gradually becomes diminished, on account of its oxygen combining with a portion of the sulphur and iron, while its nitrogen remains behind.

The quantity oxygen combining with a potential of the suprish are from, while its nitrogen remains behind. The quantity of oxygen contained in the air examined becomes thus obvious, by the diminution of bulk, which the volume of air submitted to examination has undergone.

A material error to which this method is liable, is

A material error to which this membrau is make; that the sulphuric acid which is formed, acts partly on the iron, and produces hydrogen gas, which joins to some of the nitrogen forming ammonia; and hence it is that the absorption amounts in general to 0.27 parts, although the true quantity of oxygen is no more than

from 0.21 to 0.22.

from 0.21 to 0.22.

3. De Marti's Eudiometer.—De Marti obviated the errors to which the method of Scheele was liable. He availed himself, for that purpose, of an hydroguretted sulphuret, formed by boiling sulphur and liquid potassa, or lime water, together. These substances, when newly prepared, have the property of absorbing a minute portion of nitrogen gas; but they lose this property when saturated with that gas, which is easily effected by agitating them for a few minutes in contact with a small portion of atmospheric air.

The annaratus is merely a glass tube, ten inches

with a small portion of atmospheric air.

The apparatus is merely a glass tube, ten inches long, and rather less than half an inch in diameter, open at one end, and hermetically sealed at the other. The close end is divided into one hundred equal parts having an interval of one line between each division. The use of this tube is to measure the portion of air to be employed in the experiment. The tube is filled with water; and by allowing the water to run out gradually, while the tube is inverted, and the open end kept shut with the finger, the graduated part is exactly filled with air. These hundredth parts of air are in-These hundredth parts of air are infilled with air. troduced into a glass bottle, filled with liquid sulphuret troduced into a glass bottle, filled with liquid sulphuret of lime previously saturated with nitrogen gas, and capable of holding from two to four times the bulk of the air introduced. The bottle is then to be closed with a ground glass stopper, and agitated for five minutes. After this, the stopper is to be withdrawn, while the mouth of the phial is under water; and, for the greater accuracy, it may be closed and agitated again. Lastly, the air is to be again transferred to the graduated glass tube, in order to ascertain the diminution of its bulk. tion of its bulk

4. Humboldt's Eudiometer consists in decompos-ing a definite quantity of atmospheric air, by means of the combustion of phosphorus, after which, the por-tion of gas which remains must be measured. Take a glass cylinder, closed at the top, and whose

Take a glass cylinder, closed at the top, and whose capacity must be measured into sufficiently small portions by a graduated scale fixed on it. If the instrument be destined solely for examining atmospheric air, it will be sufficient to apply the scale from the orifice of the cylinder down to about half its length, or to the other states are all and negative measurements. sketch that scale on a slip of paper pasted on the out-side of the tube, and to varnish it over with a transparent varnish.

This half of the eudiometrical tube is divided into fifty equidistant parts, which in this case indicate hundredth parts of the whole capacity of the instru-

Into this vessel, full of atmospheric air, put a piece | of dry phosphorus (one grain to every twelve cubic inches), close it air-tight, and heat it gradually, first the sides near the bottom, and afterward the bottom itself.

The phosphorus will take fire and burn rapidly. After every thing is cold, invert the mouth of the eudiometertube into a basin of water, and withdraw the cork. The water will ascend in proportion to the loss of oxygen gas the air has sustained, and thus its quantity may be ascertained.

Analogous to this is,

Analogous to this 18, 5. Seguin's Eudenmeter, which consists of a glass tube, of about one inch in diameter, and eight or ten inches high, closed at the upper extremity. It is filled with mercury, and kept inverted in this fluid in the mercurial trough. A small bit of phosphorus is in-troduced into it, which, on account of its specific gravity being less than that of mercury, will rise up in it to the top. The phosphorus is then melted by means of the top. The phosphorus is then mented by means or a red-hot poker, or burning coal applied to the outside of the tube. When the phosphorus is liquefied, small portions of air destined to be examined, and which have been previously measured in a vessel graduated to the cubic inch, or into grains, are introduced into the tube. As soon as the air which is sent up reaches the phosphorus, a combustion will take place, and the mercury will rise again. The combustion continues mercury will rise again. The combustion continues till the end of the operation; but, for the greater exactness, Seguin directs the residuum to be heated strongly. When cold, it is introduced into the graduated vessel to ascertain its volume. The difference of the two volumes gives the quantity of the oxygen gas contained in the air subjected to examination.

6. Berthollet's Eudiometer.—Instead of the rapid combustion of absorbagues Resthollet has substituted.

on business Engineers.—Instead of the rapid combustion of phosphorus, Berthollet has substituted its spontaneous combustion, which absorbs the oxygen of atmospheric air completely; and, when the quantity of air operated on is small, the process is accom-

tity of air operated on is small, the process is accom-plished in a short time.

Berthollet's apparatus consists of a narrow graduated glass tube, containing the air to be examined, into which is introduced a cylinder, or stick of phosphorus, supported upon a glass rod, while the tube stands in-verted in water. The phosphorus should be nearly as long as the tube. Immediately after the introduction of the phosphorus, white vapours are formed which fill the tube; these vapours gradually descend, and be-come absorbed by the water. When no more white vapours appear, the process is at an end, for all the or air, has united with the phosphorus: the residuum is the quantity of nitrogen of the air submitted to examination.

This eudiometer, though excellent of the kind, nevertheless not absolutely to be depended upon; as soon as the absorption of oxygen is completed, the nitrogen gas exercises an action upon the phosphorus, and thus its bulk becomes increased. It has been asand thus its fulk becomes increased. It has been as-certained, that the volume of nitrogen gas is increased by 1-40th part; consequently the bulk of the residuum, diminished by 1-40th, gives us the bulk of the nitrogen gas of the air examined; which bulk, subtracted from the original mass of air, gives us the proportion of oxygen gas contained in it. The same allowance must be made in the eudiometer of Seguin. 7. Davy's Eudiometer.—Until very lately, the pre-ceding processes were the methods of determining the

relative proportions of the two gases which compose

our atmosphere.

Some of these methods, though very ingenious, are so extremely slow in their action, that it is difficult to ascertain the precise time at which the operation Others have frequently involved inaccuracies, not easily removed.

The eudiometer of Davy is not only free from these objections, but the result it offers is always constant; it requires little address, and is very expeditious; the

apparatus is portable, simple, and convenient.

Take a small glass tube, graduated into one hundred equidistant parts; fill this tube with the air to be exequidistant parts; fill this tube with the air to be examined, and plunge it into a bottle, or any other convenient vessel, containing a concentrated solution of green muriate or sulphate of iron, strongly impregnated with nitrous gas. All that is necessary to be done, is to move the tube in the solution a little backwards and forwards; under these circumstances, the oxygen gas contained in the air will be rapidly absorbed, and condensed by the nitrous gas in the solu-

tion, in the form of nitrous acid.

N. B. The state of the greatest absorption should be marked, as the mixture afterward emits a little gas which would alter the result.

This circumstance depends upon the slow decompo This circumstance depends upon the slow decomposition of the nitrous acid (formed during the experiment), by the oxide of iron, and the consequent production of a small quantity of aëriform fluid (chiefly nitrous gas); which, having no affinity with the red nuriate, or sulphate of iron, produced by the combination of oxygen, is gradually evolved and mingled with the residual nitrogen gas. However, the nitrous case evolved night, he abstracted by exposing the resigas evolved might be abstracted by exposing the residuum to a fresh solution of green sulphate or muriate

of iron.

The impregnated solution with green muriate, is more rapid in its operation than the solution with green sulphate. In cases when these salts cannot be green sulphate. phate of iron of commerce may be employed. One cubic inch of moderately impregnated solution, is capable of absorbing five or six cubic inches of oxygen, in common processes; but the same quantity must never be employed for more than one experi-

In all these different methods of analyzing air, it is necessary to operate on air of a determinate density, and to take care that the residuum be neither more condensed nor dilated than the air was when first operated on. If these things are not attended to, no derated on. If these things are not attended to, no dependence whatever can be placed upon the result of the experiments, how carefully soever they may have been performed. It is, therefore, necessary to place the air, before and after the examination, into water of the same temperature. If this, and several other little circumstances, have been attended to, for instance, a change in the height of the barometer, &c. we find that air is composed of about 0.21 of oxygein gas, and 0.70 of nitrogen gas by bulk. But as the weight of these two gases is not exactly the same, the proportion of the component parts by weight will different parts by the same, the proportion of the component parts by weight will dif-fer a little; for as the specific gravity of oxygen gas is to that of nitrogen gas as 8 to 7 nearly, it follows that 100 parts of air are composed by weight of about 76

100 parts of air are composed by weight of about 76 mitrogen gas, and 24 oxygen gas.

The air of this metropolis, examined by means of Davy's eudiometer, was found, in all the different seasons of the year, to contain 0.21 of oxygen; and the same was the case with air taken at Islington and Highgate; in the solitary cells in Cold-Bath-Fields prison, and on the river Thames. But the quantity of water contained in a given bulk of air from these places, differed considerably.

ELICALENIS, Separating a physician of December 11.

EUGALENUS, SEVERINUS, a physician of Doccum, in Friesland, known chiefly as the author of a Trea-tise on the Scurvy, in 1604, which once maintained a considerable character: but the publication of Dr. Lind, pointing out his numerous errors, has entirely superseded it.

(So named by Micheli, in compli-EUGE'NIA. (So named by Michel, in compinent to Prince Eugene of Savoy, who sent him from Germany almost all the plants described by Clusius.) The name of a genus of plants in the Linnæan system. Class, locsandria; Order, Monagynia.

EUGENIA CARYOPHYLLATA. The systematic name which of state the class of the compiler o

of the tree which affords the clove. Caryophyllus aromaticus. It grows in the East Indies, the Moluccas, &c. The clove is the unexpanded flower, or rather the calyx; it has a strong agreeable smell, and a bitterish, hot, not very pungent, taste. The oil of cloves, commonly met with in the shops, and received from the Dutch is highly agringing and sophistic flower the Dutch is highly agringing and sophistics. cloves, commonly met with in the sbops, and received from the Dutch, is highly acrimonious and sophisticated. Clove is accounted the horeest and most acrid of the aronatics; and, by acting as a powerful stimulant to the muscular fibres, may, in some cases of atonic gout, paralysis, &c. supersede most others of the aromatic class; and ne foreign oil, by its great acrimony, is also well adapted for several external purposes; it is directed by several pharmacopaias, and the clove life futers many officinal preparations.

ELGERIA JAMBOS. The systematic name of the Rolladar plum-tree. The fruit smells, when ripe, like roses. On the coast of Malabar, where the trees grow pleatifully, these plums are in great esteem. They are not only eaten fresh off the trees, but are preserved in sugar, in order to have them eatable all the year.

in sugar, in order to have them eatable all the year.

Of the flowers, a conserve is prepared, which is used the cure of fever and ague."-Bigelow's Materia Mr.

Of the rowers, a conserve is prepared, which is used medicinally as a mild adstringent.

EUGE TS. (From cv, well, and yn, the earth: so called because of its fertility.) The uterus.

EUKAMRITE. A new mineral, composed of silver, selemium, copper, and alumina, found in the copper nine of Shrekerum, in Switzerland.

(From ευλαζω, to putrefy.) A worm bred in foul and putrid ulcers.

Eunuchium. (From ευνουχος, a eunuch: so called because it was formerly said to render those who eat it impotent, like a eunuch.) The lettuce. See I.actuca

EUPATORIOPHA'LACRON. (From ευπαζωριον, agrimony, and φαλακρος, bald.) A species of agrimony with naked heads.

EUPATO'RIUM. (From Eupator, its discoverer: or quasi hepatorium, from ηπαρ, the liver; because it was said to be useful in diseases of the liver.) 1. The name of a genus of plants in the Linnæan system. Class, Syngenesia; Order, Polygamia aqualis.
2. The pharmacopæial name of the Eupatorium.

See Eupatorium cannabinum. Eupatorium arabicum. See Eupatorium canna-

EUPATORIUM CANNABINUM. The systematic name EUPATORIUM CANNABINUM. The systematic name of the hemp agranony. Empatorium; Eupatorium arabicum. The juice of this very bitter and strong-smelling plant. Evpatorium—folics digitatis of Lannaus, proves violently emetic and purgative, if taken in sufficient quantity, and promotes the secretions generally. It is recommended in dropsics, jaundices, agues, &c. and is in common use in Holland among the lower orders, as a purifier of the blood in old ulcers, scorey, and masarra.

the lower orders, as a purifier of the blood in old ulcers, scurvy, and anasarca.

EIPATORIUM MESCES. See Achillea ageratum.
["EUPATORIUM PEFFOLLATUM. Thoronghwart. The
Eupatorium perfoliatum is an indigenous vegetable,
growing in wet meadows throughout the United States.
The whole plant is medicinal, but the leaves and
flowers are most active. The taste is intensely bitter, accompanied by a flavour peculiar to the plant,
but without astringency or acrimony. A kind of extractive matter appears to contain its sensible and
modicinal properties, and of this water is an adequate
solvent.

solvent.
"The medicinal powers of this plant are, such as its sensible qualities would seem to indicate, those of a tonic stimulant. Given in moderate quantities, either a tonic stimulant. Given in moderate quantities, either in substance, in cold infusion or decoction, it promotes digestion, strengthens the viscera, and restores tone to the system. Like other vegetable bitters, if given in large quantities, especially in warm infusion or decoction, it proves emetic, cathartic, and sudorific. Even in cold infusion, it brings on diaphorees more readily than most tonics. It is an efficacious article in the cure of intermittents, and is much employed for this use in districts where fever and ague prevail. Cures effected by it appear to have been as speedy as those from any of the medicines in common use. Thoroughwent has them semilored in small doses with benefit in wort has been employed in small doses with benefit in other febrile complaints attended with prostration of strength in their advanced stages. Its action upon the skin has acquired for it some confidence in the treatment of cutaneous disease

"As a tonic, twenty or thirty grains of the powder "As a tonic, twenty or thirty grains of the powder may be given in milk or wine, or two fluid onnees of the infusion. When intended to act as an emetic, a strong decoction may be made from an ounce of the plant in a quart of water boiled to a pint. The decoction is a disagreeable, but popular and effectual medicine in oatarrhs, rheumaissni, and febrile, attacks. It is powerfully emetic, cathartic, and sudorific."—Big.

is powerfully emetic, cathartic, and sudorific."—Big. Mat. Med. A.]

["ELPATORIUM PERPUREUM. Gravel root. This is a taller plant than the pecies already cited. Its taste is bitter, astringent, and atemptic. I am informed that it operates as a diuretic, and is employed by different country physicians as a palliative in dysury and calculous diseases."—Big. Mat. Med. A.]

["EUPATORIUM TEUCHUM. Wild Horrhound. Many of the species of Eupatorium, which nearly resemble Eupatorium perfoliatum, in botanical habu, are likewise similar to it in medicinal properties. The present species is one of this kind. It is tonic diaphoretic, and cathartic, and in small doses sits well on the stomach. It is extensively used in the southern states in

dica. A.]

[\*EUPHORBIA IPECACUANHA. Ipecacuanha spurge:
This is a low tufted plant, growing native in saudy
soils in the middle and southern parts of the United States. It was at one time supposed to be the plant from which the officinal ipecacuanha is derived.

"The root is very large in proportion to the plant, fleshy, irregular, and branched. When dried, it is of a grayish colour outside, and white within. It is light a graysh colour outside, and white within. It is light and brittle, without a ligneous centre; and has about the hardness of cork. To the taste it is sweetish, and not particularly unpleasant. It contains a substance of the nature of caoutchoue, which is soluble in ether, and precipitated by alkohol; likewise resin, mucus, and probabily focule.

and probably focula.

"Most of the species of the extensive genus Euphorbia, are violent emetics and cathartics. The luctescent juice, which they exude when wounded, is acrid and virulent, so as to blister and ulcerate the skin when externally applied. Taken internally in large doses, they produce the violent symptoms which are common to other acrid narcotics. The Euphorbia pecacuanha they produce the violent symptoms when secondarian could be not often acrid narcotics. The Euphorbia pecacuanha is milder in its operation than many of the other species, and has lately been revived in practice as an effectual emetic. With a view of becoming acquainted with the mode of operation of this plant, I performed a series of experiments on its action, assisted by some medical gentlemen of the Boston Dispensary and Alms-house. These trials have led to the conclusion, the this root in deset of from ten to twenty grains, is that this root, in doses of from ten to twenty grains, is both an emetic and cathartic; that it is more active than ipecacusanha, in proportion to the number of grains administered; that in small doses it operates with as much case as most emetics in a majority of instances. If it fails, however, at first, it is not so safely repeated as many of the enetics in common use. If accumulated in the stomach to the amount of two or three scruples, it finally excites active and long continued vomiting, attended with a sense of heat, vertigo, indistinct vision, and great prostration of strength. Its operation seems exactly proportionate to the quantity taken, and vomiting is not checked by the powder being thrown off in the first efforts of the stomach.

"From ten to twenty grains constitute an emetic, that this root, in doses of from ten to twenty grains, is

when the property of the stores of the stores.

"From ten to twenty grains constitute an emetic, to be given at once. If this quantity fails to vomit, it generally purges. It may be quickened by a little tartarized antimony, but ought not to be repeated to the amount of more than twenty-five or thirty grains."—
BUPE PSIA. (From ευ, well, and πεπ/ω, to constitute the stores of the stores of

ect.) A good digestion. EUPE'PTIC. (Eupe

(Eupepticus; from sv, good, and That which is of easy digestion. A species of rock, composed of πεπ ζω, to digest.)
EUPHODITE.

felspar and diallage. EUPHORBIA. The name of a genus of plants in EUPHORBIA. Class, Dodecandria; Order,

Trigynia.

EUPHORBIA ANTIQUORUM. The systematic name of a plant supposed to produce the Euphorbium.

EUPHORBIA CANARIENSIS. In the Canary islands this species of spurge affords the gum euphorbium.

EUPHORBIA CYPARISIAS. The systematic name of the cypress spurge. Esula minor; Tithymalus cyparissius. This, like most of the spurges, is very acrimonious, inflaming the eyes and cesophagus after touching them. It is now fallen into disuse, whatever were its virtues formerly, which, no dant among

touching them. It is now fallen into disuse, whatever were its virtues formerly, which, no doubt, among some others, was that of opening the bowels, for among rustics, it was called poor man's rhubarb. ["EUPHOREIA COROLLATA. Large flowering spurge. The Euphorbia corollata is a tall species, with a fiverayed umbel, and white flowers. It grows spontaneously in dry fields from Pennsylvania to Carolina. "The soft brittle texture of the root, and its sweetish taste, are similar to those of Euphorbia ipecacuanha. Its chemical constitution is nearly the same, except that the quantity of resin is apparently somewhat greater.

greater.

"This is a very active medicine, of the evacuating
"This is a very active medicine, of the evacuating parogram Teverium. With non-rhound. Many pecitios of Eupatorium, which nearly resemble rium perfoliatum, in botanical habit, are like-nilar to it in medicinal properties. The present is one of this kind. It is tonic, diaphoretic, is one of this kind. It is tonic, diaphoretic, and in small doses sits well on the sto. It is extensively used in the southern states in

quantities. The only inconveniences attending undones, which have come to my knowledge, are, that when given in small quantities, for a cathartic, it is liable to produce nausea; and in large ones, suitable for an emetic, it has sometimes induced a degree of the similar inconveniences may occurred. cur from jalap and tartarized antimory. The effects which large doses of this root may produce on the nervous system, I have not had occasion to witness. The vous system, I have not had occasion to witness. vous system, I have not had occasion to witness. The Euphorbia corollata, like many others of its genus, if applied in a contused state to the skin, excites inflammation and vesication. Its volatile particles possess a certain degree of virulence, so the particles possess a certain degree of virulence, so that inflammation of the face has been brought on by handling the root. It remains to be ascertained whether the vesicating powers of this and the other species are equally definite and manageable, with those of the more common provers of this and the other species are equally denite and manageable, with those of the more common opispastic substances."—Big. Mat. Med. A.]

EUPHOREIA LATHYRIS. The systematic name of the plant which affords the less cataputia seeds. Ca-

the plant which affords the less cataputia seeds. Cataputia minor; Euphorbia—umbella quadrifida, dichotoma, foliis oppositis integerrimis of Linnœus. The seeds possess purgative properties; but if exhibited in an over dose, prove drastic and poisonous; a quality peculiar to all the Eupharbia.

Euphorbian officinarum. The systematic name of the plant which affords the euphorbium in the greatest abundance. Euphorbium is an inodorous gunr-resin, in yellow tears, which have the appearance of being worm-eaten; said to be obtained from several species of euphorbies, but principally from the Euphorbic officinarum; aculatea nuda multangularis, aculeis germinatis of Linnœus: it is imported from Ethiopia, Libya, and Mauritania. It contains an active resin, and is very seldom employed internally, but, as an ingredient, it enters into many resolvent and discutient plasteris. discutient plasters.

GECHIOR DIALUSTRIS. The systematic name of the greater spurge. The officinal plant ordered by the name, Esula major, in some pharmacopenas, is the Euphorbia palustris; umbella mutifida, bifida, involuellis ovatis, foliis lanceolatis, ramis sterilibus of Linnæus. The juice is exhibited in Russia as a common purge; and the plant is given, in some places, in the cure of intermittents.

the cure of intermittents.

EUPHORRIA PARALIAS. Tithymalus paralies. Seapurge. Every part of this plant is violently cathartic and irritating, inflaming the mouth and fauces. It is seldom employed in the practice of this country; but where it is used, vinegar is recommended to correct its

ritiating power.

EUPHO'RBIUM. (From Euphorbus, the physician of king Juba, in honour of whom it was named.)

See Euphorbia officinarym.

EUPHRA'SIA. (Corrupted from Euphrosyme, zuφροσωνη, from ευφρων, joyful: so called because it extiliarates the spirits.)

1. The name of a genus of plants in the Linnæan system. Class, Didynamia; Order, Angiospermia.

2. The pharmacopecial name of eye-bright. See

Euphrasia officinalis.

EUPHRASIA OFFICINALIS. The systematic name of the eye-bright. This beautiful little plant, Euphrasia—folius opatis, lineatis, argute dentatis of Linnaus, has been greatly esteemed by the common people, as a remedy for all diseases of the eyes; yet, notwithstanding this, and the encomiums of sonic medical writers, it is now redolly fully high about disease. it is now wholly fallen into disuse. It is an ingredient in the British herb-tobacco.

EUSTACHIAN TUBE. Taba custuchiana. The tube so talked was discovered by the great Eustachius. It begins, one in each ear, from the anterior extremity of the tympanum, and runs forwards and inwards in a bony canal, which terminates with the petrous portion

bony canal, which terminates with the petrous portion of the temporal bone. It then goes on, partly cartilaginous, and partly membranous, gradually becoming larger, and at length ends behind the soft palate. Through this tube the air passes to the tympanum. ETSTACHILY NALVE. See Valvula Eustachis. EUSTACHILYS, BARTHOLOMEW, one of the most celebrated anatomists of the 16th century, was born at San Severino, in Italy. He studied at Rome, and made himself such a proficient in anatomy, that he was chosen professor of that branch of medicine there, where he died in 1574. He was author of several works, many of which are lost, especially his treatise "De Controversiis Anatomicorum," which is

The only inconveniences attending these | much regretted. He made several discoveries in anatomy; having first described the renal capsules, and the thoracic duct; also the passage from the throat to the internal ear, named after him the Eustachian tube. A series of copperplates, to which he alludes in his "Opuscula," were recovered by Lancist, and pub-lished in the beginning of the 18th century. He edited the Lexicon of Erotian with a commentary.

edited the Lexicon or Erotian with a commentary. EUTHYPO'RIA. (From EvØv5, straight, and προρ5, a passage.) Euthiporos. An extension made in a straight line, to put in place a fracture, or dislocation. EVAPORA'TION. A chemical operation usually performed by applying heat to any compound substance, in order to displet the volatile parts. "It differs from distillation in its object, which chiefly consists in preserving the more fixed matters, while the volatile substances are dissipated and lost. And the volatile substances are dissipated and lost. vessels are accordingly different; evaporation being commonly made in open shallow vessels, and distillation in an apparatus nearly closed from the external

The degree of heat must be duly regulated in evaporation. When the fixed and more volatile matters do not greatly differ in their tendency to fly off, the heat must be very carefully adjusted; but in other

cases this is less necessary.

As evaporation consists in the assumption of the elastic form, its rapidity will be in proportion to the degree of heat, and the diminution of the pressure of the atmosphere. A current of air is likewise of service in this process.

Barry has lately obtained a patent for an apparatus, by which vegetable extracts for the apothecary may be made at a very gentle heat, and in vacuo. these two circumstances, extracts thus prepared differ

these two circumstances, extracts thus prepared differ from those in common use, not only in their physical, but medicinal properties. The taste and smell of the extract of hemlock made in this way are remarkably different, as is the colour both of the soluble and feculent parts. The form of apparatus is as follows:—

The evaporating-pan, or still, is a hemispherical dish of east-iron, polished on its inner surface, and furnished with an air-tight flat tid. From the centre of this a pipe rises, and bending like the neck of a retort, it forms a declining tube, which terminates in a copper sphere of a capacity three (four?) times greater than that of the still. There is a stop-cock on that pipe, midway between the still and the globe, and another at the under side of the latter.

at the under side of the latter.

The manner of setting it to work is this:—The juice, or infusion, is introduced through a large opening into The intuitier of setting it to work is ins:—The juice, or infusion, is introduced through a large opening into the polished iron still, which is then closed, made airtight, and covered with water. The stop-cock which leads to the sphere is also shut. In order to produce the vacuum, steam from a separate apparatus is made to rush by a pipe through the sphere, till it has expelled all the air, for which five minutes are commonly sufficient. This is known to be effected, by the steam issuing uncondensed. At that instant, the copper sphere is closed, the steam shut off, and cold water admitted on its external surface. The vacuum thus produced in the copper sphere, which contains four-fifths of the air of the whole apparatus, is now partially transferred to the still, by opening the intermediate stop-cock. Thus, four-fifths of the air in the still rush into the sphere, and the stop-cock being shut again, a second exhaustion is effected by steam in the same manner as the first was; after which a momentary communication is again allowed between the iron still and the receiver; by this means, four-fifths or iron still and the receiver; by this means, four-fifths of the air remaining after the former exhaustion, are expelled. These exhaustions, repeated five or six times, experied. I nese extrausions, repeate the volume are usually found sufficient to raise the mercurial column to the height of 28 inches. The water-bath, in which the iron still is immersed, is now to be heated, until the fluid that is to be inspissated begins to bob, until the fluid that is to be inspissated begins to boil, which is known by inspection through a window in the apparatus, made by fastening on, air-fight, a piece of very strong glass; and the temperature at which the boiling point is kept up, is determined by a thermometer. Evalition is continued until the fluid is inspissated to the proper degree of consistence, which also is tolerably judged of by its appearance through the glass window. The temperature of the boiling fluid is usually about 100° F., but it might be reduced to nearly 90°.

In the Medico-chirurgical Transactions for 1819,

(vol. x.) there is a paper by J. T. Barry on a new method of preparing Pharmaceutical Extracts. It consists in performing the evaporation in vaeno. For this purpose he employed apparatus which was found to answer so well, that, contemplating its application to other manufacturers, he was induced to take out a other manufacturers, he was induced to take out a patent for it, that is to say, for the apparatus. As it has been erromeously supposed that the patent is for preparing extracts in vacua, it may not be improper to correct the statement by a short quotation from the above paper. On that account, I have been induced to take out a patent for it (the apparatus): It is, however, to be recollected by this society, that I have declined having a patent for its plus maccutical products. Chemists, desirous of insuisaving extracts in vacuo. Chemists, desirous of inspissating extracts in vacuo are therefore at liberty to do it in any apparatus dif-fering from that which has been made the subject of my patent; and thus these substances may continue the object of fair competition as to quality and price.'

The apparatus combines two striking improvements The irst consists in producing a vacuum by the agency of steam only, so that the use of air-pumps and the machinery requisite for working them, is superseded.

The other improvement is a contrivance for super-The other improvement is a contrivance for super-seding the injection of water during the process of eva-poration in vacuo."

Evergreen louf. See Sempervirens.

Evergreen leaf. See Sempervirens.

Evergreen leaf. See Sempervirens.

Evergreen leaf. (From everre, to sweep away.) A soit of spoon, used to clear the bladder from gravel.

EXACERBATION. (Exacerbatic; from exacerba, to become violent.) An increase of the force or violence of the symptoms of a disease. The term is generally applied to an increase of febrile symptoms.

EXACERSIS. (From exacerba, to remove.) One of the divisions of surgery adopted by the old surgeons; the term implies the removal of parts.

EXALMA. (From exalpha, to leap out.) Hippocrates applies it to the starting of the vertebræ out of their places.

their places. EXAMBLO'MA. (From εξαμβλοω, to miscarry.)

An abortion.

EXAMBLO'SIS. An abortion.

Exanastomo'sis. (From εξανασ')ομοω, to relax, or open.) The opening of the mouths of vessels, to dis-

open.) The opening of the mounts of vessels, to the charge their contents.

EXANGIA. (Exangia; from εξ, and ανγειον, a vessel.) The name of a genus; class, Hæmatica; order, Dysthetica, in Good's Nosology. It embraces

order, Dysthetica, in Good's Nosology. It embraces three species, Exangia aneurisma, variz, cyania.

EXANTHE'MA. (Exanthema, atis. n.; from exavbou, effloresco, to effloresce, or break forth on a surface.) Exanthisma. An eruption of the skin, calted a rash. It consists of red patches on the skin, variously figured; in general confluent, and diffused irregularly over the body, leaving interstices of a natural colour. Portions of the cutticle are often elevated in a rash but the elevations are not accuminated. The a rash, but the elevations are not acuminated. eruption is usually accompanied with a general disorder of the constitution, and terminates in a few days by cuticular exfoliations.

by cuticular exfoliations.

EXANTHE MATA. (The plural of exanthema.)
The name of an order of diseases of the class Pyrexia in Cullen's Nosology. It includes diseases, beginning with fever, and followed by an eruption on the skin.

EXANTHEMATICA. The name of an order of diseases, class, Hematica, in Good's Nosology. Eruptive fevers. It comprehends four genera, viz. Exanthesis, Emphlyis, Empyesis, Inthracia.

EXANTHESIS. (From it, crtar, and avluo, floreo.)
The name of a genus of disease, class, Eccritica; order, Acrotica, in Good's Nosology. Cutaneous blush. It affords only one species, Exanthesis rossola.

der, Aeratica, in God's Nosology. Cutameous blush. It affords only one species, Ezanthesis roscola.

Exanthi'sma. See Exanthema.

Exanthi'sma. See Exanthema.

Exanthi'sma. See Exanthema.

Exanthi'sma. (From εξ, without, and ανθρωπος, andn, i. ε. having lost the faculties of a man.) A species of melancholy, in which the patient fancies himself some kind of brute.

Exant'sma. (From εξαρατ')ω, to break.) A fracture.

Exant'sma. (From εξαρω, to lift up.) A tumour or swelling.

swelling. (From εξαρ7αω, to suspend.) EXARTE'MA.

charm, hung round the neck.

Exarthre'ma. (From εξαρθροω, to put out of joint.) Exarthroma; Exarthrosis. A dislocation, or luxation.

Exarthro'ma. See Exarthrema.

Exarthro'sis. See Exarthrema.

EXARTICULA'TIO. (From ex, out of, and arti-A luxation, or dislocation of a bone culus, a joint.) from its socket.

(From excipio, to receive.) A che-Excipulum.

EXCITABILITY. That condition of living bodies wherein they can be made to exhibit the functions and phenomena which distinguish them from inanimate

wherein they can be made to extinute the three phenomena which distinguish them from inanimate matter, or the capacity of organized beings to be affected by various agents called exerting propers.

Much confusion seems to have arisen in medical controversies from the application of the word stimuli, to denote the means necessary to the support of life; and particularly by Brown, in his celebrated attempt to reduce the varied and complicated states of the system to the reciprocal action of the exciting powers upon the excitability. By this hypothesis, instead of regarding life as a continued series of actions, which cannot go on without certain agents constantly ministering to them, we are to suppose a substance or quality, called excitability, which is superadded or assigned to every being upon the commencement of its living state. The founder of the Brunoffan school considers that this substance or quality is expanded. considers that this substance or quality is expanded by the incessant action of the exciting powers. These are—air, food, and drink, the blood and the secretions, as well as muscular exertion, sensation, thought, and passions, or emotion, or other functions of the system itself; and these powers, which exhaust the excitabi-lity or produce excitement (according to the language of the school), are strangely enough called stimuli. We are told, that it is in the due balance between the exciting powers and the excitability that health constitute for the

exciting powers and the excitability that health consists: for if the exciting powers be in excess, indirect debtity is produced; and where, on the other hand, the stimuli are deficient and the excitability accumulated, there ensues a state of direct debtity.

EXCITATION. (Excitatio; from excito, to excite). The act of awakening, rousing, or producing some power or action: thus we say, the excitation of motion, excitation of heat, excitation of the passions, &c. In natural philosophy, it is principally used in the subjects of action of living parts, and in electricity and heat.

EXCITEMENT. According to the opinion Brown, excitement is the continual exhaustion of the Brown, excitement is the continual exhaustion of the matter of life, or excitability by certain agents, which have received the name of stimuli or exciting powers. The due degree of this expension or excitement is the condition necessary to health: the excessive action of stimuli causing indirect debility and generating sthenic diseases, white the opposite state of deficient excitement produces direct debility, and gives birth to asthenic diseases: and death is said to result equally from complete exhaustion of the excitability, and from total absence of the exciting powers. Excitement is in this view equivalent to that forced state which is supposed view equivalent to that forced state which is supposed by the Brunonian school to constitute life.

It has been objected to this hypothesis, that by simplifying too much the varied phenomena of healthy functions and of diseases, it necessarily classed together conditions of the system which have been considered as widely different, and of opposite tendencies, by the more patient observer. And though gladly caught at by many, as pointing out in a few general rules the mode of cure in all diseases, namely, by restoring the proper equilibrium between excitability and the action of stimuli, the Brunonian theories seem now to be considered, by those who are suspicious of bold classifications, as an example of the observation, "that the most ingenious way of becoming foolish is by a system; and the surrest way to prevent truth, is It has been objected to this hypothesis, that by sim-

by a system; and the surest way to prevent truth, is by a system; and the surest way to prevent truth, is to set up something in the room of it." EXCITING. That which has the power of im-pressing the solids, so 2s to alter their action, and thus produce disease.

EXCITING CAUSE. That which, when applied to

Exciting cause. That which, when applied to the body, excites a disease.

EXCORIATION. (Excoriatio; from excorio, to take off the skin.) An abrasion of the skin.

EXCREMENT. (Excrementum; from excerno, to separate from.) The alvine faces.

EXCRESCENCE. (Excressentia; from excerso, to grow from.) Any preternatural formation of fesh, or any part of the body, as wens, warts, &cc.

EXCRESTION. (Excretic; from excerno, to separate from.) This term is applied to the separation of

those fluids from the blood of an animal, that are supposed to be useless, as the urine, perspiration, and alvine forces. The process is the same with that of exerction, except with the advine faces; but the term exerction is applied to those substances which, when exparated from the blood, are not applied to any useful suppression in the minimum process.

perparation in the blood, are not applied to any userur purposes in the animal economy.

EXCRETORY. (Excretorius; from excerno, to purge, sift, &c.) This name is applied to certain ititle ducts or vessels in the fabric of glands; thus the tubes which convey the secretion out of the testicle into the

vesiculæ seminales are called the excretory ducts.

esicule seminates are canculus. EXERCISE. See *Æora*. EXFOLIA TION. (*Exfoliatio*; from *exfolio*, to set the leaf.) The separation of a dead piece of bone cast the leaf.) from the living.

EXPONANTI VUM. (From exfolio, to shed the leaf.) A raspatory, or instrument for scraping exfoliating portions of hone.

Ext'scanos. (From εξ, out of, and ισχιον, the ischium.) A luxation of the thigh-hone.

EXTU'RA. (From exec, to come from.) A running

abscess. E'XITUS. (From ezeo, to come out.) A prolapsus, or falling down of a part of the womb or bowel.

Exochas. (From  $\varepsilon \xi \omega$ , without, and  $\varepsilon \chi \omega$ , to have.)

E'xoche. See Exochas.

Exocy'ste. See Exocystis. Exocy'stis. (From  $\mathfrak{E}_{\omega}$ , without, and  $\kappa \mathfrak{v}_{\mathfrak{F}}\mathfrak{t}_{\mathfrak{F}}$ , the adder.) Exocyste. A prolapsus of the inner membladder.) Exocyste. brane of the bladder. EXO'MPHALUS.

EXOMPHALUS. (From εξ, out, and ομφαλος, the navel.) Exomphalog. An umbilical hernia. See Hernia umbilicalis

EXONCHO'MA. (From εξ, and ογχος, a tumour.) A large prominent tumour. EXOPHTHA'LMIA. (From εξ, out, and οφθαλμος,

the eye.) A swelling or protrusion of the built of the eye, to such a degree that the eyelids cannot cover it. It may be caused by inflammation, when it is termed It may be caused by inflammation, when it is termed exophthalmia inflammatoria; or from a collection of pus in the globe of the eye, when it is termed the exophthalmia purulenta; or from a congestion of blood within the globe of the eye, exophthalmia sanguinea.

EXORMIA. (Εξορμα; from ιξορμαω, to break out.) The name of a genus of disease, class, Eccretica; order, Acrotica, in Good's Nosology. Papulous skin. It has four species, viz. Exormia strophalus, lichen accurate militum.

skin. It has four species, viz. Exormia strophalus, lichen, prurigo, milium.

EXOSTOSIS. (From ex, and oo7eov, a bone.) Hyperostosis. A morbid enlargement, or hard tumour of a bone. A genus of disease arranged by Cullen in the class Locales, and order Tumores. The bones most frequently affected with exostosis, are those of the cranium, the lower jaw, sternum, humerus, radius, ulna, Bones of the carpus, the femur, and tibia. There is, however, no bone of the body which may not become the seat of this disease. It is not uncommon to find the bones of the cranium affected with exostosis, in their whole extent. The ossa parietalia sometimes in their whole extent. The ossa parietalia sometimes become an inch thick.

The exostosis, however, mostly rises from the surface of the bone, in the form of a hard round tumour; and venereal exostoses, or nodes, are observed to arise chiefly on compact bones, and such of these as are only superficially covered with soft parts; as, for instance, the bones of the cranium, and the front surface of the ribia.

The increase of surface, or of bulk,

to which natural bodies are susceptible.

EXPECTORANT. (Expectorans; from expectore, to discharge from the breast.) Those medicines which increase the discharge of mucus from the lungs. The different articles referred to this class may be di-

vided into the following orders:

1. Nauseating expectorants; as squill, ammoniacum, and garlic, which are to be preferred for the aged

and phlegmatic.

Stimulating expectorants; as marrubium, which is adapted to the young and irritable, and those easily affected by expectorants.

Antispasmodic expectorants; as vesicatories, pedituvium, and watery vapours: these are best calculated for the plethoric and irritable, and those liable to spasmodic affections.

4. Irritating expectorants; as fumes of tobacco and

acid vapours. The constitutions to which these are chiefly adapted, are those past the period of youth, and those in whom there are evident marks of torpor, either in the system generally, or in the lungs in par-

[These are remedies which promote, or are adminis-tered to facilitate the discharge from the lungs both by

secretion or expectoration.

This secretion is of two kinds, first the Halitus or This secretion is of two kinds, first the Halitus or watery vapour, and secondly the Muscus or slime. In cases of disease there are other secretions, or rather fluids to be excreted; such as,

Blood or sanguineous mixtures.

2. Pus or purulent mixtures.

Lymphatic or coagulated films, as in croup Stony or calculous concretions.

Hydatids

5. Hydatus.

There may be too little vascular or grandular action in consequence of which the organ of respiration may be too dry, or secrete less than it ought; and also there may be too little power to throw out the secreted matters. Under the title therefore of Expectorans, are comprehended all the remedies which promote secretion or excretion in the lungs.

Respiration may be considered as a perspiratory function, and acting in conjunction with, or vicarious to, the skin, and as baying area is somewhat to perform analogous to the alimentary canal. For which purpose the lungs and intestines may be strictly and properly considered as external surfaces.

When the pulmonary and bronchial vessels are con-When the pulmonary and bronchial vessels are con-sidered as to the amount of blood they convey, the im-portance of the function, the proximity of the heart, the frequency and seriousness of the diseases to which the lungs are subjected, it will be evident that this class of remedies is worthy of being well understood.

The function of respiration in my view has an ana-

logy to respiration.

Remedies therefore which determine the fluids to the skin, or excite the cuticular surface to secretory action, may be considered as almost pari passu encouraging pulmonary exhalation. This argument derives force from the common remark of the suppressed perspiration failing upon the lungs. There is no doubt that the pulmonic surface and the cuticular surface (both of which are to be considered as external) are frequently both disordered at once. But the true interpretation probably is, that the lungs do not suffer in consequence of the fluids repelled from the skin, but from the same cause which disturbs the skin: the cold, for example, which acts injuriously upon the former, produces a like mischief in the latter. They are cutaneous disorders, and are to be removed as far as the restoration of their respective secretions are concerned by corresponding means.

I therefore class Sudorifics among the expectorants. Emetics are to be placed in the same class, and for a very good reason. Their action in inverting the motion of the stomach is favourable to the excretion of fluids from the trachea and bronchie, as well as from the stomach and fauces. This may be explained from Remedies therefore which determine the fluids to

fluids from the trachea and bronchia, as well as from the stomach and fauces. This may be explained from the action of the belly, the diaphragm, and intercos-tals, and the compression they make upon the chest, and forcing out its contents. The same solution seems to apply, at least as far as secretion goes, to the opera-tion of nauseating doses. Upon the same principle that they relax the skin, they relax the pulmonary

Some expectorants are directly applied to the lungs; among which are,

1. Warm air, of a thermometric temperature to suit

the patient's case.

Respirable air, medicated by carbonic acid to dimi-

2. Respirable air, medicated by carbonic acid to diminish its too stimulant quality.

3. Respirable air, quickened by a mixture of oxygenous gas to excite the bronchiæ and rouse them from torpor. The same may be done by ether.

4. Air qualified and tempered by the vapour of water and infused herbs, as in Mudges inhaler.

5. Trus and medicated drinks, sipped slowly, and swallowed gradually, so that a portion of their vapour may enter the trachea with the breath.

6. Dry fumes, as those of tobacco, stramonium, &c., a part of which undoubtedly enters the trachea, and cannot be excluded, as of cinnabar, frankincense, &c. 7. A medicated atmosphere, into which the odours

of plants and flowers, as of geraniums and oranges, or of gums and drugs, such as camphor and musk, may be set loose and mingled.

Other expectorants act upon the mouth and fauces by virtue of the sympathy between those parts and the

by virtue of the sympath, lungs; such as, 1. Saccharine substances, as honey, syrups, dry sugars and their lozenges, liquorice, &c. 2. Mucilaginous substances, as gum arabic, gum tra-

gacanin, sc. Others again act through the medium of the sto-mach, as any of the before mentioned substances when they are swallowed, and others bringing the lungs by consent into a relaxed and expectorating state. The rules recommended in the administration of expectorants may be reduced to two.

1. To keep the patient in a warm and comfortable

temperature.
2. To avoid the administration of such cathartics as seem to act contrariwise to expectorants. Can they not however he so employed as to supersede expectorants to a certain degree?

Excessive expectoration will frequently require your interposition, as,

1. In catarrhal affections of the chronic kind, where 1. In catarrial arcettons of the chronic kind, where the secreted mucus must be evacuated by hawking or coughing; and the quantity of slime in chronic cases is very considerable. The disease is troublesome, and sometimes ends in hemoptysis or phthisis.

2. In phthisis pulmonalis; in which the excretion of mucus, pus, &c. is one of the most distressing symptoms, and thus often without vomica or ulcera-

3. In occasional rushes or determination of fluids to the trachea and bronchia, where prodigious quantities of slime are effused and excreted, with great ex-

ertion and straining.

The course of proceeding in each case will depend upon the particular state of the constitution, the idio-syncrasy of the patient, the acquired habits of fiving and physicking; and the connexion of this particular symptom, with the other symptoms of the dominant

malady

The following are the principal of the expectorants:
Lichen islandicus, Iceland moss. 2. Glycyrrhiza
abra, Liquorice. 3. Mimosa nilotica, Gum arabic. 1. Lichen islandicus, Iceland moss. 2. Glycyrrhiza glabra, Liquorice. 2. Mimosa nilotica, Gum arabic. 4. Ulmus aspera, Slippery elm. 5. Heracleum gummosiferum, Gum ammoniac. 6. Scilla maritima, the Squill. 7. Allium sativum, Garlic. 8. Perula, Assafetida. 9. Arum tryphillum, Marchturnip. 10. Polygala Senega, Seneca snakeroot. 11. Carbonate of ammonia. 12. Carbonate of potash. 13. Carbonate of soda. 14. Colchicum-autumnale or meadow saffron. 15. Balsans of Tolu, Capivi, &c. 16. Inhalatican of the property of the state of tions of water, vinegar, medicated infusions. 17. Syrups and saccharine compositions, as honey and vine-

rups and saccharine compositions, as noney and vinegar, molasses and vinegar, &c..—Notes from Dr. Mitchill's Lect. on Mat. Med. As EXPERIENCE. A kind of knowledge acquired by long use, without any teacher. Experience consists in the ideas of things we have seen or read, which the judgment has reflected on, to form for itself a rule or

method.

EXPERS. Wanting; destitute. The trivial name of some diseases; as dipsosis expers, in which the thirst is wanting.

EXPIRA'TION. (Expiratio; from expiro, to breathe.) That part of respiration in which the air is thrust out from the lungs. See Respiration.

Expressed vil. Such oils as are obtained by pressing the substance containing them; as olives, which give out differ out of live oil. almonds. &cc.

ing the substance containing them; as olives, which give out olive oil, almonds, &c.

Exsucca'trio. (From ex, out of, and succus, humour.) An exchymosis, or extravasation of humours, under the integuments.

EXTE'NSOR. (From eztendo, to stretch out.) A term given to those muscles, the office of which is to extend any part; the term is in opposition to flexor.

flexor.

DATENSOR BREVIS DIGITORUM FEDIS. A muscle of the toes, situated on the foot. Extensor brevis, of Douglas. Calcano phalanginien commune, of Dumas. It arises fieshy and tendinous from the fore and upper part of the os calcis, and soon forms a deshy belly, divisible into four portions, which send off an equal number of tendons that pass over the upper part of the foot, under the tendons of the extensor longus digito- bone of the thumb.

rum pedis, to be inserted into its tendinous expansion. Its office is to extend the toes.

EXTENSOR CARPI RADIALIS BREVIOR. An extensor EXTENSOR CARPI RADIABLE BREVIOR. An extensor muscle of the wrist, situated on the forearm. Radialis externus brevior, of Albinus. Radialis sexundus, of Winslow. It arises tendinous from the external condyle of the humerus, and from the ligament that conrects the radius to it, and runs along the outside of the radius. It is inserted by a long tendon into the upper and back part of the netacarpal bone of the middle finger. It assists in extending and bringing the hand backward.

EXTENSOR CARPI RADIALIS LONGIOR. muscle of the carpus, situated on the forearm, that acts in conjunction with the former. Radialis externus In conjunction with the former. Radialis externus primus, of Winslow. It arises thin, broad, and fleshy, from the lower part of the external ridge of the os humeri, above its external condyle, and is inserted by a round tendon into the posterior and upper part of the metacarpal bone that sustains the foreingers.

EXTENSION CARP, UNLARUS. Unaris externus of

EXTENSOR CARPI ULNARIS. Ulnaris externus, of Albinus and Winslow. It arises from the outer condip of the os huneri, and then receives an origin from the edge of the ulna: its tendon passes in a groove bettind the styloid process of the ulna; to be inserted into the inside of the basis of the metacarpal bone of the

little finger.

EXTENSOR DIGITORUM COMMUNIS. A muscle situated on the forearm, that extends all the joints of the lingers. Extensor digitorum communis manus, of tingers. Extensor digitorum communis manus, of Douglas and Winslow. Extensor digitorum communis, seu digitorum tensor, of Cowper, and Epichon-dylo-suspha-lang ettien commune, of Dunnas. Cum extensore proprio aurecularis, of Albinus. It arises from the external protuberance of the humerus: and at the wrist it divides into three flat tendons, which pass under the annular ligament, to be inserted into all the bones of the fore, middle, and ring fingers.

EXTENSOR DIGITORUM LONGUS. See Extensor lon-

EXTENSOR DIGITORUM LONGUS. See Extensor longus digitorum pedis.

EXTENSOR INDICIS. See Indicator.

EXTENSOR LONGUS DIGITORUM PEDIS. A muscle situated on the leg, that extends all the joints of the four small loes. Extensor digitorum longus. Perneo-tibisus-phalangittien commune, of Dumas. It arises from the upper part of the tibia and fibula, and arises from the upper part of the tibia and fibula, and the interoseous ligament; its tendon passes under the unnular ligament, and then divides into five, four of which are inserted into the second and third pha langes of the toes, and the fifth goes to the basis of the metatarsal bone. This last, Winslow reckons a distinct muscle, and calls it Peroneus brevis.

EXTENSOR LONGUS POLLICIS PEDIS. See Extensor

proprius pollicis pedis. Extensor magnus.

EXTENSOR MAGNUS. See Gastrocnemius internus. EXTENSOR MAJOR POLLICIS MANUS. See Extensor secundi internodii.

EXTENSOR MINOR POLLICIS MANUS. See Extensor

primi internodii.

primi internodii.

EXTENSOR OSSIS METACARPI FOLLICIS MANUS. An extensor muscle of the wrist, situated on the forearm. Adductor longus pollicis manus, of Albinus. Extensor primi internodii, of Douglas. Extensor primis pollicis, of Winslow. Extensor primi internodii pollicis, of Cowper. Cubito-radissus metacarpien du pouce, of Dumas. It arises fleshy from the middle and posterior part of the unla, from the posterior part of the unla, from the posterior part of the diddle of the radius, and from the interosseous ligament, and is inserted into the or transcription. is inserted into the os trapezium, and upper part of the metacarpal bone of the thumb.

EXTENSOR POLLICIS PRIMUS. See Extensor primi

internodii

EXTENSOR POLLICIS SECUNDUS. See Extensor secundi internodii.

EXTENSOR PRIMI INTERNODII. A muscle of the thumb situated on the hand, that extends the first bone of the thumb obliquely outwards. Extensor minor of the thumb obliquely outwirds. Extensor minor pollicis manus of Albinus. This muscle, and the Extensor ossis metacarpi pollicis manus, are called Extensor pollicis primus by Winslow; Extensor secundi internodi is by Douglas; Extensor secundi internodi is of Cowper. Cabito-susphalangien du pouce of Durmas. It arises fieshy from the posterior part of the ulna, and from the interoseous ligament, and is inserted tendinous into the posterior part of the first bone of the thumb. EXTENSOR PROPRIUS FOLLICIS PEDIS. An exterior muscle of the great toe, situated on the foot. Extensor longus of Douglas. Extensor politicis longus of Winslow and Cowper. Peroneo susphalangien du pouce of Dumas. It arises by an acute, tendinous, and fleshy beginning, some way below the head, and anterior part of the fibula, along which it runs to near its lower extremity, connected to it by a number of fleshy fibres, which descend obliquely, and form a tendon, which is inserted into the posterior part of the first and less tolar of the great ton. EXTENSOR PROPRIUS POLLICIS PEDIS. An exterior last joint of the great toe.

EXTENSOR SECUNDI INTERNODII. A muscle of the EXTENSOR SECUNDI INTERNODII. A muscle of the thumb, situated on the hand, that extends the last joint of the thumb obliquely backwards. Extensor major politicis manus of Albinus. Extensor politicis secundus of Winslow. Extensor tertii internodii of Douglas. Extensor internodii ossis politicis of Cowper. Oubito susphalangettien du pouce of Dumas. It arises tendinous and fleshy from the middle part of the ulna, and interossous livanour ii thou feets. interosseous ligament; it then forms a tendon, which runs through a small groove at the inner and back part of the radius, to be inserted into the last bone of the thumb. Its use is to extend the last phalanx of the thumb obliquely backwards.

EXTENSOR SECUNDI INTERNODII INDICIS PROPRIUS. See Indicator.

EXTENSOR TARSI MINOR. See Plantaris.

EXTENSOR TARSI SURALIS. See Gastrocnemius

EXTENSOR TERTII INTERNODII INDICIS. See Prior

indicis. Extensor tertii internodii minimi digiti. See

EXTENSOR TERTH INTERNOUL BASIAL POPULAR Abductor minimi digiti manus.

EXTERNUS MALLEL. See Lazator tympani.

EXTIPULATUS. Without supulæ. A botanical term. Applied to stems.

EXTIRPA'TION. (Extirpatio; from extirpo, to eradicate.) The complete removal or destruction of cradicate.) The complete removal or destruction of the control of any part, either by cutting instruments, or the action of

E'XTRACT. Extractum. 1. When chemists use this term, they generally mean the product of an aque-

ous decoction.

2. In pharmacy it includes all those preparations from vegetables which are separated by the agency of various liquids, and afterward obtained from such solutions, in a solid state, by evaporation of the menstruum. It also includes those substances which are held in solution by the natural juices of fresh plants, as well as those by the natural juices of fresh plants, as well as those to which some menstruum is addled at the time of preparation. Now, such soluble matters are various, and mostly complicated; so that chemical accuracy is not to be looked for in the application of the term. Some chemists, however, have affixed this name to one peculiar modification of vegetable matter, which has been called extractive, or extract, or extractive principle; and, as this forms one constituent part of common extracts and prospected cartial characters it will be proper. tracts, and possesses certain characters, it will be proper to mention such of them as may influence its pharma-ceutical relations. The extractive principle has a strong taste, differing in different plants: it is soluble in water, and its solution speedily runs into a state of putrefaction, by which it is destroyed. Repeated evaporations and solutions render it at last insoluble, in consequence of its combination with oxygen from the atmosphere. It is soluble in alkohol, but insoluble in eather. It unites with alumine, and if boiled with neutral saits thereaf, precipitates them. It precipitates with strong acids, and with the oxides from solutions of most metallic salts, especially muriate of tin. It readily unites with alkalies, and forms compounds with them, which are soluble in water. No part, however, of this subject has been hitherto sufficiently examined. In the preparation of all the extracts, the London Pharmacopoela requives that the water be evaporated as speedily as possible in a broad, shallow dish, by means of a water-bath, ustif they have acquired a consistence proper for making pills; and, towards the end of the inspissation, that they sheald be constantly stirred with a wooden rod. These general rules require minute and accurate attention, more particularly in the immediate evaporation of the solution, whether prepared by expression or decoction, in the manner as well as the degree of heat by which it is performed, and the promotion of it by changing the surface by constant stirring, when the liquor begins to thicken, and even by different properties of the solution, when the promotion of all over its surface, if it is described as the degree of heat by which it is performed, and the promotion of the solution when the promotion of all over its surface, if it is the compact of the solution of the solution. to mention such of them as may influence its pharmaceutical relations. The extractive principle has a

can conveniently be done. It is impossible to regulate the temperature over a naked are, or, if it be used, to provent the extract from burning; the use of a waterbath is, therefore, absolutely necessary, and not to be dispensed with, and the beauty and precision of extracts so prepared, will demonstrate their superiority.

EXTRACTION. (Extractio; from extrache, to draw out.) The taking extraneous substances out of the body. Thus bullets and splinters are said to be extracted from wounds; stones from the urethra, or bladden. Surgeons also sometimes apply the term extraction to the removal of tumours out of cavities, as, for instance, to he taking of cartilaginous tumours tumours as, for instance, to the taking of cartilaginous tumours out of the joints. They seldom speak of extracting any diseased original part of the body; though they do

so in one example, viz. the cataract.

EXTRA'CTIVE.

EXTRA'CTUM. (From extrah.) (From extraho, to draw out.)

EATRA CIUM: (From extrate, to draw out.)
An extract. See Extract.
EXTRACTUM ACONTI. Extract of aconite. Take
of aconite leaves, fresh, a pound; bruise them in a
stone mortar, sprinkling on a little water; then press out the juice, and, without any separation of the sediment, evaporate it to a proper consistence. The dose is from one grain to five grains. For its virtues, see Aconitum

Aconium.

EXTRACTUM ALOES PURIFICATUM. Purified extract of aloes. Take of extract of spike aloe, powdered, half a pound; boiling water, four pints. Macerate for three days in a genule heat, then stram the solution, and set it by, that the dregs may subside. Pour off the clear polysisten and analysis it to a progress possistence. The solution, and evaporate it to a proper consistence.

Solution, and evaporate it to a proper consistence. The dose, from five to fifteen grains. See Alloes.

EXTRACTUM ANTHEMIDIS. Extract of chamomile, formerly called extractum chamæmeli. Take of chamomile flowers, dried, a pound; water, a gallon; boil down to four pints, and strain the solution while it is hot, then evaporate it to a proper consistence. The dose is ten grains to a scruple. For its virtues, see

Anthemis nobilis.

Anthems nobutis.

ExtractIVIM Belladonnæ. Extract of belladonna. Take of deadly night-shade leaves, fresh, a pound. Bruise them in a sione mortar, sprinkling on a little water; then press out the juice, and without any previous separation of the sediment, evaporate it to a proper consistence. The dose is from one to five grains.

Proper consistence. The dose is from one to five grainsFor its virtues, see Atropa belladonna.

Extractum cinchone. Extract of bark. Take of lance-leaved cinchona bark, bruised, a pound; water a gallon; boil down to six pints, and strain the liquor, while hot. In the same manner, with an equal quantity of water, four times boil down, and strain. Lastly, consume all the liquors, mixed together, to a proper consistence. This extract should be kept soft, for making wills and hard to be reduced to powder. making pills, and hard to be reduced to powder.

making pills, and hard to be reduced to powder.

EXTRACTUM CINCHONE RESINOSUM. Resinous extract of hark. Take of lance-leaved cinchona bark, bruised, a pound; rectified spirit, four pints; macerate for four days and strain. Distil the tincture in the heat of a water-bath, until the extract has acquired a proper consistence. This is considered by many as much more grateful to the stomach, and, at the same time, producing all the effects of bark in substance, and by the distillation of it, it is intended that the spirit which passes over shall be collected and preserved. The dose is from ten grains to half a drachm. See Cinchona.

EXTRACTUM COLOCYNTHIDIS. EXTRACT OF COLOCYNTHIDIS.

Take of colocynth pulp, a pound; water, a gallon; boil down to four pints, and strain the solution while it is not, and evaporate it to a proper consistence. The dose is from five to thirty grains. For its virtues, see

Cucumis colocynthis.

Cueumis colocynthis.

EXTRACTUM COLOCYNTHIDIS COMPOSITUM. Compound extract of colocynth. Take of colocynth pulp, sliced, six drachms; extract of spike aloe, powdered, an ounce and half; seammony gum-resin, powdered, half an ounce; cardamom seeds, powdered, a drachm; proof spirit, a pint. Macerate the colocynth pulp in the spirit, for four days, in a gentle heat: strain the solution, and add it to the aloes and seammony; then, by means of a water-bath, evaporate it to a proper consistence, constantly striring, and about the end of the inspissation, mix in the cardamom-seeds. The dose from five to thirty grains.

EXTRACTUM CONI. Extract of hemlock, formerly called succus cicuts spissatus. Take of freah hemlock, apound. Bruise it in a gone mortan, sprinklim.

lock, a pound. Bruise it in a stone mortar, sprinkling

on a little water; then press out the juice, and, without any separation to the sediment, evaporate it to a proper consistence. The dose, from five grains to a

scruple.

SCTUPE.

EXTRACTUM ELATERII. Extract of claterium. Cut the ripe, wild cucumbers into slices, and pass the judice, very gently expressed, through a very fine hair sieve, into a glass vessel; then set it by for some hours, until the thicker part has subsided. Pour off, and throw away the thinner part, which swims at the top. Dry the thicker part which remains in a gentle heat. The doce, can half a right to three grains. For its vittues, see from half a grain to three grains. For its virtues, see Momordica elaterium.

EXTRACTUM GENTIANE. Extract of gentian. Take of gentian root, sliced, a pound; boiling water, a gallon; macerate for twenty-four hours, then boil down to four pints; strain the hot liquor, and evaporate it to a proper consistence. Dose, from ten to thirty grains. See

Gentiana.

Extract of liquorice. EXTRACTUM GLYCYRRHIZE. Take of liquorice root, sliced, a pound; boiling water, a gallon; macerate for twenty-four hours, then boil down to four pints; strain the hot liquor, and evaporate it to a proper consistence. Dose, from one drachm to

Daff an ounce. See Glypyrrhiza.

EXTRACTUM H.EMATONYLL. Extract of logwood, formerly called extractum ligni campechensis. Take of logwood, powdered, a pound; boiling water, a gallon; macerate for twenty-four hours; then boil down to four pints; strain the hot liquor, and evaporate it to a proper consistence. Dose, from ten grains to half adnerous. For its visitings see Magnatus and the contraction of the contraction of the contraction of the contraction of the contraction. For its virtues, see Hamatoxylon campechianum.

EXTRACTEM HUMULI. Extract of hops. Take of hops, four ounces; boiling water, a gallon; boil down to four pints; strain the hot liquor, and evaporate it to a proper consistence. This extract is said to produce

a proper consistence. This extract is said to produce a tonic and sedative power combined; the dose is from five grains to one scruple. See Humulus lupulus. EXTRACTUM HYOSCYAMI. Extract of henbane. Take of fresh henbane leaves, a pound; bruise them in a stone mortar, sprinkling on a little water; then press out the juice, and, without separating the faculencies, evaporate it to a proper consistence. Dose, from five to thirty grains. For its virtues, see Hyosciants.

EXTRACTUM JALAPÆ. Extract of jalap. Take of jalap-root powdered, a pound; rectified spirit, four pints; water, ten pints; macerate the jalap-root in the spirits for four days, and pour off the tincture; boil the remaining powder in the water, until it be reduced to two pints; then strain the tincture and decoction are propagately and lat the formula be distilled and the latest the strain the tincture and decoction. to two pints; then strain the tincture and decoction separately, and let the former be distilled and the latter evaporated, until each begins to grow thick. Lastly, mix the extract with the resin, and reduce it to a proper consistence. Let this extract be kept in a soft state, fit for forming pills, and in a hard one, so that it it may be reduced to powder. The dose, from ten

to twenty grains. For its virtues, see Convolvulus

EXTRACTUM OPIL Extract of opium, formerly called extractum thebaicum. Opium colatum. Take of opium, sliced, half a pound; water, three pints; pour a small quantity of the water upon the opium, and macerate it for twelve hours, that it may become soft; then, adding the remaining water gradually, rub them together until the mixture be complete. Set it by, that the frequiencies may subside; then strain the liquor, and evaporate it to a proper consistence. Dose,

from half a grain to five grains

EXTRACTUM PAPAVERIS. EXTRACT of white poppy.

Take of white poppy capsules bruised, and freed from
the seeds, a pound; boiling water a gallon. Macerate
for twenty-four hours, then boil down to four pints; strain the hot liquor, and evaporate it to a proper consistence. Six grains are about equivalent to one of

issence. Six grains are about equivalent to one of opium. For its virtues, see Paparcer album. Extractorym anext. Extract of rhubarb. Take of rhubarb root, powdered, a pourd; proof spirit, a pint; water, seven pints. Macerate for four days in a gentle heat; then strain and set it by that the freculencies may be placed to the place of the clear figure, and evaporate to a subside. Pour off the clear liquor, and evaporate to a proper consistence. This extract possesses the purgative properties of the root, and the fibrous and earthy parts are separated; it is therefore, a useful basis for pills, as well as given separately. Dose, from ten to thirty grains. See Rheum.

EXTRACTUM SARSAPARILLE. Extract of sarsapa. Take of sarsaparilla root, sliced, a pound; boil rilla. Take of sarsaparana rous succe, a pound, soon ing water, a gallon; macerate for twenty-four hours, then boil down to four pints; strain the hot liquor, and evaporate it to a proper consistence. In practice this is much used, to render the common decoction of the same root stronger and more efficacious. Dose from ten grains to a drachm. For its virtues, see Smi lax sarsaparilla.

EXTRACTUM SATURMI. See Plumbi acctatis liquor Extractum Taraxaci. Take of dandelion root EXTRACTUM SATURNI. See Plumbi acetatis tiquer EXTRACTUM TARRAZOI. Take of dandelion root, fresh- and bruised, a pound; boiling water, a gallon; macerate for twenty-four hours; boil down to four pints, and strain the hot liquor; then evaporate it to a proper consistence. Does, from ten grains to a drachm. For its virtues, see Lecontodon taraxacum.

[The Pharmacopæia of the United States admits

the following extracts.

Extractum aconiti. belladonnæ.

hyoscyami.

stramonii. anthemidis. gentiane.

hæmatoxyli. hellebori nigri.

colocynthidis compositum.

cinchona jalapæ podophylli.

EXTRAFOLIACEUS. Applied to stipule, which are below the footstalk, and external with respect to the leaf; as in sistragalus onobriches.

EXTRAVASA TION. (Extravasatio; from extra, without, and vas, a vessel.) A term applied by surgeons to fluids, which are out of their proper vessels, or recentacles. Thus, when blead is affixed on the geons to fluids, which are out of their proper vessels, or receptacles. Thus, when blood is effused on the surface, or in the ventricles of the brain, it is said that there is an extravasation. When blood is poured from the vessels into the cavity of the peritoneum, in wounds of the abdomen, surgeons call this accident extravasation. The urine is also said to be extravasated, when, in consequence of a wound, or of slough interesting the said of the collection. ing, or ulceration, it makes its way into the cellular substance or among the abdominal viscera. When the bile spreads among the convolutions of the bowels, in wounds of the gall-bladder, it is also a species of

extravasation.

EXTREMITIES. This term is applied to the limbs, as distinguishing them from the other divisions of the animal, the head and trunk. The extremities are four in number, divided in man into upper and lower; in in humber, drivided in man mo upper and lower; and other animals into anterior and posterior. Each extremity is divided into four parts; the upper into the shoulder, the arm, the forearm and the hand: the lower into the hip, the thigh, the leg, and the foot.

EYE. Oculus. The parts which constitute the eye are divided into external and internal. The exter-

nal parts are:

The eyebrows, or supercilia, which form arches 1. The eyebrous, or supercitia, which form arches of hair above the orbit, at the lower part of the forehead. Their use is to prevent the sweat falling into the eyes, and for moderating the light above.

2. The eyelashes, or citia, are the short bairs that grow on the margin of the eyelids; they keep external badies out of the eyes and moderate the influx

3. The eyelids, or palpebra, of which, one is superior or upper, and the other inferior, or under; where they join outwardly, it is called the external canthus; inwardly, towards the nose, the internal canthus; they cover and defend the eyes.

The margin of the eyends, which is cartilaginous. is called tarsus.

In the tursus, and internal surface of the eyelids, in the torsus, affects, and the glandula Meisbonance, small glands are situated, called glandula Meisbonance, because Meisbonias discovered them; they secrete an oily or muclifaginous fluid, which prevents the at trition of the eyes and eyelids, and lacilitates their

4. The lachrymal glands, or glandula lachrymales, which are placed near the external canthus, or corner of the eyes, in a little depression of the os frontis.

From these glands six or more canals issue, which are called lachrymal ducts, or ductus lachrymales, and they open on the internal surface of the upper and they open on the internal surface of the upper The chambers, or cameræ of the eyes are: eyelid.

5. The lachrymal caruncle, or caruncula lachryma lis, which is situated in the internal angle, or canthus of the eyelids.

6. Puncta lachrymalia, are two callous orifices or openings, which appear at the internal angle of the tarsus of the eyelids; the one in the superior, the other in the inferior eyelid.

7. The canales lachrymales, or lachrymal ducts, are two small canals, which proceed from the lachrymal points into the lachrymal sac.

 The saccus lachrymatis, or lachrymal sac, is a membraneous sac, which is situated in the internal canthus of the eye.

9. The ductus nasalis, or nasal duct, is a membra-neous canal, which goes from the interior part of the lachrymal sac through the bony canal below, and a little behind, into the cavity of the nose, and opens under the interior spongy bone into the nostril.

10. The membrana conjunctiva, or conjunctive membrane, which, from its white colour is called also albuginea, or white of the eye, is a membrane which lines

gimea, or white of the eye, is a membrane which lines the internal superficies of the cyclids, and covers the whole forepart of the globe of the eye: it is very vascular, as may be seen in indammations.

The bulb, or globe of the eye, is composed of eight membranes, or coverings, two chambers, or camera, and three humours, improperly so called.

The membranes of the globe of the eye, are, four in the hinder or posterior part of the bulb, or globe, viz. seleroteae, choroidea, retina, and hyaloidea, or arachnoidea; four in the fore or anterior part of the bulb, viz. connect transparens, iris, uvea, and capsule of the crustalline lens.

of the crystalline tens.

The membrana sclerotica, or the sclerotic or horny
the membrana sclerotica, or the sclerotic or horny The membrane scientifica, or the scientific r norny membrane, is the outermost. It begins from the optic nerve, forms the spherical or globular cavity, and terminates in the circular margin of the transparent

The membrana choroidea, or choroides, is the middle tonic of the bulb, of a black colour, beginning from the optic nerve, and covering the internal superficies of the sclerotica, to the margin of the transparent cornea. In this place it secedes from the cornea, and deflects transversely and inwardly, and in the middle forms a round foramen. This circular continuation of the choroidea in the anterior surface is called iris, in the posterior superficies, uvea.

The round opening in the centre is called the pupil, or pupilla. This foramen, or round opening, can be dilated, or contracted by the moving powers of almost

invisible muscular fibres.

The membrana retina, is the innermost tunic of a white colour, and similar to mucus, being an expansion of the optic nerve, chiefly composed of its medullary part. It covers the inward surface of the choroides,

The chambers, or cameræ of the eyes are:

1. Camera anterior, or fore-chamber; an open space, which is formed anteriorly, by the hollow surface of the cornea transparens, and posteriorly, by the surface

2. Camera posterior, that small space which is bounded anteriorly by the tunica uvea, and pupilla, or pupil; posteriorly by the anterior surface of the crystalline lens.

Both these chambers are filled with an aqueous humour. The humours of the eye, as they are called, are in number three:

are in number three:

1. The aqueous humour, which fills both chambers.

2. The crystatine lens, or humour, is a pellucid body, about the size of a lentil, which is included in an exceedingly fine nembrane, or capsula, and lodged in a concave depression of the vitreous humour

3. The vitreous humour, is a pellucid, beautifully transparent substance, which fills the whole bulb of the eye behind the crystalline lens. Its external surface is surrounded with a most pellucid membrane, which is called membrana hyaloidea. or arachnoidea. In the anterior part is a fovea, or bed, for the crystal-

The connexion of the bulb is made anteriorly, by means of the conjunctive membrane, with the inner surface of the eyelids, or palpebre; posteriorly, by the adhesion of six muscles of the bulb and the optic nerve

with the orbit

The optic nerve, or nervus opticus, perforates the sclerotica and choroides, and then constitutes the retina, by spreading itself on the whole posterior part of

the internal globe of the eye.

The muscles by which the eye is moved in the orbit, are six; much lat surrounds them, and fills up the cavities in which the eyes are seated. The arteries are the internal orbital, the central, and the ciliary arteries. The veins empty themselves into the external jugulars. The nerves are the optic, and branches from the third, fourth, fitth, and six pair.

The use of the eye is to form the organ of vision.

See Vision

Externally, the globe of the eye and the transparent cornea are moistened with a most limpid fluid, called cornea are moistened with a most limpid fluid, called lackrymae, or lears; the same pellucid solutile fluid exactly fills all the pores of the transparent cornea; for, deprived of this fluid, and being exposed to the air, that coat of the eye becomes dry, shrivelled, and cloudy, impeding the rays of light.

EYE-BRIGHT. See Euphrasia.

EYE-BROW. Supercitium. See Eye.

EYE-LID. Palpebra. See Eye.

Eye-touth. The fangs of the two upper cuspidations are seen until larger than these on early side, and expenses.

are very much larger than those on each side, and extend up near to the orbit, on which account they have have been called eye-teeth. See Teeth.

F. or ft. In a prescription these letters are abbreviations of ftat, or ftant, let it, or them, be made; thus f. bolus, let the substance or substances prescribed be made into a bolus.

FA'BA. A bean. See Bean.

FABA CRASSA. See Sedum telephium.

FABA EGYPTIACA. See Nymphwa nclumbo. FABA FEBRIFUGA. See Ignatia amara.

FABA MAJOR. The garden-bean. See Bean.
FABA MAJOR. The garden-bean. It differs no otherwise from the garden-bean than in being less.

Fab resulterin. Faba pichwrim; Faba pechuris. Brazilian bean. An oblong owal, brown, and ponderous seed, supposed to be the produce of a Laurus, brought from the Brazils. Their smell is like that of musk, between it and the scent of sassafras. They are exhibited as carminatives in flatulent colics, diarrheas, and dysenteries.

FABA PURGATRIX. See Ricinus.

FABA SANCTI IGNATH. See Ignatia amara.
FABA SUILLA. See Hyoscyamus.
FABA'RIA. (From faba, a bean, which it resembles.)

EABLRIA. (From pada, a bean, which it resembles.) See Sedum telephium.

FABRICIUS, Hieronymus, born at Aquapendente in Italy, 1537. He studied at Padua under Fallopius, whom he succeeded as professor of anatomy and surgery there; which office he held for nearly half a center with recent padie and died with advanced area. gery there; which office he held for nearly half a century with great credit, and died at the advanced age of eighty-two, universally regretted. The republic of Venice also conferred many honours upon him. He is thought to have been the first to notice the valves of the veins, which he demonstrated in 1574. But his surgical works obtained him most reputation; indeed he has been called the father of modern surgery. His first publication in 1592 contained five Dissertations on Tumours, Wounds, Ulcers, Fractures, and Dislocations. He afterward added another part, treating of

all the diseases which are curable by manual opera-This work passed through seventeen editions in

different languages.

FABRICIUS, JAMES, was born at Rostock, in 1577 After traveling through different parts of Europe, he graduated at Jena, and soon gamed extensive practice. He was professor of modeline and the mathematics at He was professor or measure and the manner to the Rostock during forty years, and first physician to the Duke of Mecklenburgh; attenward went to Copen-tally and manner made physician to the kings of Norway and Denmark, and died there, in 1652. He has left several tracts on medical subjects.

left several tracts on medical subjects.
FABRICHES, PHALP CONRAD, professor of medicine at Helmstadt, was author of several useful works in amatomy and surgery. His first treatise, "Idea Anatomies Practica," 1741, contained some new directions in the Art of Injection, and described several branches of the Portio Durra, &c. In another work he has some good observations on the Abuse of Trepanting.

ning.
FABRICIUS, WILLIAM, better known by the name of Hildanus, from Hilden, in Switzerland, where he wasborn in 1560. Herepaired to Lausanne, to complete was born in 1560. Herepaired to Lausanne, to complete his knowledge of surgery, at the age of twenty-six, and distinguished himself there by his assiduity, and the successful treatment of many difficult cases. He studied medicine also, and went to practise both arts at Payenne, in 1665; but ten years after was invited to Berne by the senate, who granted him a pension. In the latter part of his life, severe illness prevented his professional exertions, which had procured him general esteem and high reputation. His death occurred in 1634. His works were written in German, but have been mostly translated into Latin. He published five "Centuries of Observations," which present many curious facts, as also several instruments invented by him.

FACE. Facies. The lower and anterior part of the cranium, or skull.

FA'CIAL.

Facialis, Belonging to the face; as

facial nerve, &c.

FACIAL NERVE. Nervus facialis. Portio dura of FACIAL NERVE. Nerveus jacasis. Porto durá of the auditory nerve. These nerves are two in number, and are properly the eighth pair: but are commonly called the seventh, being reckoned with the auditory, which is the portio mollis of the seventh pair. They arise from the fourth ventricle of the brain, pass through the petrous portion of the temporal bone to the fore where, then from the next apertings which sur-

face, where they form the pes anserious, which supplies the integuments of the face and forehead.

FACIES. The face. See Face.

FACIES HIPPOCRATICA. That particular disposition of the features which immediately proceeds the stroke of death is so called, because it has been so admirably described by Hippocrates

FACIES RUBRA. See Autta resacea.
FACTI'TIOUS. A term applied to any thing which is made by art, in opposition to that which is native, or found already made in nature.

FA'CULTY. Facultas. The power or ability by which any action is performed.

Fx'crs. (The plural of fax.) The alvine excre-

tions. FACULA. (Diminutive of fax.) A substance obtained by bruising or grinding certain vegetables in water. It is that part which, after a little, falls to the bottom. The facula of plants differs principally from gum or mucus in being insoluble in cold water, in which it falls with wonderful quickness. There are few plants which do not contain facula; but the seeds of gramineous and leguminous vegetables, and all tuberose roots contain it most plentifully.

FÆX. (Fæx, æcis, f. an excretion.) excretions are called fæces. The alvine

excretions are canted faces.

FAGA'RA. (From fagus, the breech, which it resembles.) The name of a genus of plants in the Linman system. Class. Tetrandria; Order, Monogynia.

FAGARA MAJOR. See Fagara plevota.

FAGARA OCTANDRA. The systematic name of the

plant which affords Tacamahaca, which is a resinous plant which affords Tacamahaca, which is a resinous last memor of the caucients, which had fallen into feubrace that exudes both spontaneously, and when incisions are made into the stem of this tree: Fogara Observationes Anatomica," publish foliotis tomentosis, of Liuneus, and not, as was formerly supposed, from the Populus balsamifera. Two kinds of a tacamahaca are met with in the shops. The best, called, from its being collected in a kind of gourdahell, tacamahaca in shells, is somewhat unctuous and some of which are evidently spurious.

soft, of a pale yellowish or greenish colour, a bitterish aromatic taste, and a fragrant delightful smell, approaching to that of lavender and ambergris. The more common sort is in semi-transparent grains, of a whitish, yellowish, brownish, or greenish colour, and of a less grateful smell than the former. Tacamahaca was formerly in high estimation as an ingredient in warm stimulating plasters; and although seldom used internally, it may be given with advantage as a corroborant and astringent balsamic.

FAGARA PLEROTA. Fagara major; Castana Lu-zonis; Cubebis. This plant is found in the Philip-pine islands. The berries are aromatic, and, accord-

pine islands. The Gerries are aromatic, and, according to Avicenna, heating, drying, good for cold, weak stomachs, and astringent to the bowels. FAGOPY RUM. (From  $\phi a \gamma_0 s$ , the beech, and  $\pi \nu \rho o s$ , wheat; because its seeds were supposed to resemble the mast, i. e. fruit of beech.) See Polygonum

fagopyrum.

Pagorri Ticum. See Polygonum fagopyrum.

FAGUS. (From φαγω, to eat; its nut being one of

FA'GUS. (From \$\phi\_{ay\phi\_{0}}\$, to eat; its nut being one of the first fruits used by man.)

1. The name of a genus of plants in the Linnæan system. Class, \$Monæcia; Order, Polyandria.

2. The plantmacopæiai name of the beech See Fagus sylvatica.

FAGUS CASTANEA. The systematic name of the chesnut-tree. Castanca; Lopima; Mota; Gluns Jovis Theophrasti. Jupiter's acron; Sardinian acon; the common chesnut. The fruit of this plant, Fagus—folias lanceolatis, acuminato-serratis, sutus mutic, of Linnæus, are much esteemed as an article of luxury after dinner. Toasting renders them more easy of digestion; but, notwithstanding, they must be considered as improper for weak stomachs. They are moderately nourishing, as containing sugar, and much farinaceous nourishing, as containing sugar, and much farinaceous substance

FAGUS SYLVATICA. The systematic name of the beech-tree. Fagus; Oxya; Balanda; Valanida. The fruit and interior bark of this tree, Fagus—folics oxatis, obsolete serratis, of Linnœus, are occasionally used medicinally, the former in obstinate headache, and the latter in the cure of heetic fever. The oil expressed from beech-nuts is supposed to destroy worms; a child may take two drachms of it night and morning; an adult an ounce. The poor people of Silesia use this oil instead of butter.

FAHLUMITE. A sub-species of octohedral corun-

FAINTING. See Syncope.
FAIRBURN. The name of a village in the county
of Ross, in the north of Britain, where there is a sul-

FA'LCIFORM. (Falciformis; from falx, a scythe,

and forma, resemblance.) Resembling a scythe.

FALCIFORM PROCESS. The falx. A process of the dura mater, that arises from the crista galli, separates the hemispheres of the brain, and terminates in the

the hemispheres of the brain, and terminates in the tentorium.

PALDE'LLA. Lint, used as a compress.

Falling-sickness. See Epilepsia.

Fallogian twice. See Tuba Fallopiana.

Fallopian ligament. See Poupart's ligament.

Fallopian ligament. See Poupart's ligament.

FALLOPIUS, GABRIEL, a physician of Modena, was born about the year 1523. He showed early great zeal in anatomy, botany, chemistry, and other branches of knowledge; and after studying in Italy, travelled to other countries for his improvement. In 1548, he was uppointed professor of anatomy at Pisa, and three years after at Padua; where he also taught botany, but with less celebrity. His death happened in 1563. He distinguished himself, not only as an anatomist, but also in medicine and surgery. Douglas has characterized him as highly systematic in teaching, successful in treating discusses, and expeditions in operating. Some of the discoveries, to which he laid claim, appear to have been anticipated; as, for instance, the tubes proceeding from the uterus, though generally called after him Fallopian. However, he has the merit of recovering many of the observations of the ancients, which had fallen into oblivion. His some of the best works of the 16th century; in this some of the best works of the 16th century; in this some of the best works of the 16th century; in this some of which are evidently spurious.

FALX. See Falciform process. FA'MES. Hunger. FAMES CANINA. See Bulimia.

FAMES CANINA. See Bulimia.
FAMIOERATISSIMUM EMPLASTRUM. (From fami geratus, renowned; from fuma, fame, and geru, to bear: so named from its excellence.) A plaster used

bear: so named from its exectlence.) A plaster used in intermittent fever, made of aromatic, irritating substances, and applied to the wrists.

FAMILY. Funitia. A term used by naturalists to express a certain order of natural productions, agreeing in the principal characters, and containing numerous individuals not only distinct from one another, but in a particular and a superior of the principal characters and containing numerous individuals not only distinct from one another, but in whole sets, several members being to be col-lected out of the same family, all of which have the family character, and all some subordinate distinction peculiar to that whole number, or, though found in every individual of it, not found in those of any others. It has been too company to confound the words aleast

It has been too common to confound the words, class, family, order, &c. in natural history; but the determinate meaning of the word family seems to be that larger order of creatures under which classes and or-

ders are subordinate distinctions.

FA'RFARA. (From farfarus, the white poplar: so called because its leaves resemble those of the white

poplar.) See Tussilago farfara.

FARI'NA. (From far, corn, of which it is made.)

Meal, or flour. A term given to the pulverulent and glutinous part of wheat, and other seeds, which is obtained by grinding and sifting. It is highly nutritious, and consists of gluten, starch, and mucilage. See

FARINA'CEA. (From farina, flour.) This term includes all those substances, employed as aliment, called cerealia, legumina, and nuces oleosæ.

FARINA'CEOUS. (Farinaceus; tiom farina,

FARINA' CEOUS. (Farinaceus; itom jarina, flour) A term given to all articles of food which contain jarina. See Farina. Farina' Rium. See Aliĉa. Farina' Rium. See Aliĉa. Farina sediment. Fa' Rrevis. (From far, corn.) Scurfy. An epithet of urme, where it deposites a branny sediment. FA'SCIA. (From fassis, a bundle; because, by means of a band, materials are collected into a bundle.

dle.) 1. A bandage, fillet, or roller.
2. The tendinous expansions of muscles, which bind parts together, are termed fasciæ. See Aponeu-

FASCIA LATA. A thick and strong tendinous expansion, sent off from the back, and from the tendons of the glutei and adjacent muscles, to surround the mus-cles of the thigh. It is the thickest on the outside of the thigh and leg, but towards the inside of both be-comes gradually thinner. A little below the trochanter comes gradually minner. A fittle below the trochanter major, it is firmly fixed to the linea aspera; and, fur-ther down, to that part of the head of the tibia that is next the fibrita, where it sends off the tendinous ex-pansion along the outside of the leg. It serves to pair on along the outside of the leg. It surves to strengthen the action of the muscles, by keeping them from in their proper places when in action, particularly the tendons that pass over the joints where this membrane is thickest

FASCIA LIS. (From fascia, a fillet.) See Tensor

vagina femoris.
FASCIA'TIO. (From fascia, a fillet.) The binding up any diseased or wounded part with bandages.

FASCICULARIS. (From fascis, a bundle.) Applied to roots which are sessile at their base, and conist of bundles of finger-like processes; as the root of

the Ophris nidus asis.

FASCICULATUS. Fasciculate. Bundled or clustered. Applied to nerves, stems of plants, leaves, &c.

ee Leaf and Caulis. FASCICULUS.

FASCITCULUS. (From fascis, a bundle. 1. In pharmacy, a handful.

2. In botany, a fascicule is applied to flowers on little stalks, variously inserted and subdivided, collected into a close bundle, level at the top; as in Sweet-william. It differs from,

1. A corymb, in the little stalks coming only from about the apex of the peduncle, and not from its whole

length.
2. An umbel, from the stalks not coming from a common point.

3. A cyme, in not having its principal division um-

FAT. Adeps. A concrete oily matter contained in the cellular membrane of animals, of a white, or yellowish colour, with little or no smell, or taste.

differs in different animals in solidity, colour, taste, &c. and likewise in the same animal at different ages. In infancy it is white, insipid, and not very solid; in the adult it is firm and yelfowish, and in animals of an advanced age, its colour is deeper, its consistence various, and its taste in general stronger.

and its taste in general stronger.

The fat appears to be useful in the animal economy principally by its physical properties; it forms a sort of elastic cushion in the orbit upon which the eye moves with facility; in the soles of the feet, and in the hips, it forms a sort of layer, which renders the pressure exerted by the body upon the skin and other soft parts less severe; its presence beneath the skin concurs in rounding the multipes. In duninishing the hone, and muscules the continues in countries. ing the outlines, in diminishing the bony and muscu-

ing the outlines, in diminishing the bony and muscular projections, and in beautifying the form; and as all fat bodies are bad conductors of caloric, it contributes to the preservation of that of the body. Full persons in general suffer little in winter by the cold.

Age, and the various modes of life, have much influence upon the developement of this fluid; very young children are generally fat. Fat is rarely abundant in the young man; but the quantity of it increases much towards the age of thirty years, particularly; if the mourishment is succulent, and the life sedentary; the abdomen projects, the hips increase in size, as well as the breasts in women. The fat becomes more yellow in proportion as the age is more advanced. Fat meat is nourishing to those that have strong digestive meat is nourishing to those that have strong digestive powers. It is used externally, as a softening remedy, and enters into the composition of ointments and plus

ters.
"Concerning the nature of this important product of animalization, nothing definite was known, till Chevreuil devoted himself with meritorious zeal and perseverance to its investigation. He has already published in the Annales de Chimie, seven successive memoirs on the subject, each of them surpassing its pre-decessor in interest. We shall in this article give a decessor in interest. We shall in this article give a brief abstract of the whole.

By dissolving fat in a large quantity of alkohol, and By dissolving fat in a large quantity of aixonor, and observing the manner in which its different portions were acted upon by this substance, and again separated from it, it is concluded that the fat is composed of an oily substance, which remains fluid at the ordinary temperature of the atmosphere; and of another fatty substance which is much less fusible. Hence it follows that for the match as reasoned as a simple substance. Substance Which is inuch less fusible. Hence it follows, that fat is not to be regarded as a simple principle, but as a combination of the above two principles, which may be separated without alteration. One of these substances melts at about 45°, the other at 100° the same quantity of alkohol which dissolves 3.2 parts of the oily substance, dissolves 1.8 only of the fatty substance: the first is separated from the alkohol in the form of an oil; the second in that of small silky needles

Each of the constituents of natural fat was then saponified by the addition of potassa; and an accurate description given of the compounds which were formed, and of the proportions of their constituents. The oily substance became saponified more readily than the fatty substance; the residual fluids in both cases contained the sweet oily principle; but the quantity that proceeded from the soap formed of the oily substance, was four or five times as much as that from the fatty substance. The latter soap was found to contain a substance. The latter soop was found to commit a much greater proportion of the pearly matter than the former, in the proportion of 7.5 to 2.9; the proportion of the fluid fat was the reverse, a greater quantity of this being found in the soap formed from the oily substance of the fat.

When the principles which constitute fat unite with potassa, it is probable that they experience a change in the proportion of their elements. This change devethe proportion of their elements. This change developes at least three bodies, margarine, fluid fat, and the sweet principle; and it is remarkable, that it takes place without the absorption of any foreign substance, or the disengagement of any of the elements which are separated from each other. As this change is effected by the intermedium of the alkali, we may conclude that the newly formed principles must have a strong affinity for salifiable bases, and will in many respects resemble the aclds; and, in fact, they exhibit the leading characters of acids, in reddening litmus, in decomposing the alkaline carbonates to unite to their bases, and in neutralizing the specific properties of the alkalies. alkalies.

Having already pointed out the analogy between the

properties of acids and the principles into which fat is i converted by means of the alkalies, the next object was to examine the action which other bases have upon fat, and to observe the effect of water, and of the cohesive force of the bases upon the process of saponification. The substances which the author subjected to experiment, were soda, the four alkaline earths, alumina, and the oxides of zinc, copper, and lead. After mina, and the oxides of zinc, copper, and lead. After giving a detail of the processes which he employed with these substances respectively, he draws the following general conclusions:—Soda, barytes, strontian, lime, the oxide of zinc, and the protoxide of vad, convert fat into margarine, fluid fat, the succet principle, the yellow colouring principle, and the odorous principle, precisely in the same manner as potassa. Whatever be the base that has been employed, the products of sanonification always exist in the same relative are destined as of saponification always exist in the same relative proportion. As the above mentioned bases form with margarine and the fluid fat compounds which are insoluble in water, it follows, that the action of this liquid, as a solvent of soap, is not essential to the pro-cess of saponification. It is remarkable that the ox-ides of zinc and of lead, which are insoluble in water and which produce compounds equally insoluble, should give the same results with potassa and soda, a circumstance which proves that those oxides have a strong alkaline power. Although the analogy of magnesia to the alkalies is, in other respects, so striking, yet we find that it cannot convert fat into soap under the same circumstances with the oxides of zinc and

It was found that 100 parts of hog's-lard were re duced to the completely saponified state by 16.36 parts

of potassa.

The properties of spermaceti were next examined it melts at about 112°; it is not much altered by distillation; it dissolves readily in hot alkohol, but separates as the fluid cools; the solution has no effect in chang-ing the colour of the tincture of littings, a circumstance, as it is observed, in which it differs from margarine, a substance which, in many respects, it resembles.— Spermaceti is capable of being saponitied by potassa, with nearly the same phenomena as when we submit

hogs-lard to the action of potassa, although the opera-

The author's general conclusion respecting the fatty matter of dead bodies is, that even after the lactic acid. the lactates, and other ingredients which are less essential, are removed from it, it is not a simple, ammosening, are removed from the stock a simple, annine miacal soap, but a combination of various fatty substances with amnonia, potassa, and lime. The fatty substances which were separated from alkohol, had different melting points, and different sensible properties. It follows, from Chevreuil's experiments, that the sub-stance which is the least fusible, has more affinity for bases than those which are more so. It is observed. that adipocere possesses the characters of a saponified fat; it is soluble in boiling alkohol in all proportions, reddens litmus, and unites readily to potassa, not only without losing its weight, but without having its fusibility or other properties changed.

Chevreuil has shown, that hog's-lard, in its natural state, has not the property of combining with alkalies; but that it acquires it by experiencing some change in the proportion of its elements. This change being inbut that it acquires it by experiencing some change in the proportion of its elements. This change being in-duced by the action of the alkali, it follows that the bodies of the new formation must have a decided af-finity for the species of body which has determined it. If we apply this foundation of the theory of saponifi-cation to the change into fat which bodies buried in the earth experience, we shall find that it explains the pro-cess in a very satisfactory manner. In reality, the fatty matter is the combination of the two adipose sub stances with ammonia, lime, and potassa: one of these substances has the same sensible properties with margarine procured from the soap of hog's-lard; the other, the orange-coloured oil, excepting its colour, appears to have a strong analogy with the fluid fat. From to have a strong analogy with the nucl tall. From these circumstances, it is probable that the formation of the fatty matter may be the result of a proper saponification produced by ammonia, proceeding from the decomposition of the muscle, and by the potassa and lime, which proceed from the decomposition of certain table.

The author remarks, that he has hitherto made use of periphrases when speaking of the different bodies that he has been describing, as supposing that their 352 nature was not sufficiently determined. He now, hownature was not sufficiently determined. He now, however, conceives, that he may apply specific names to them, which will be more commoditions, and, at the same time, by being made appropriate, will point out the relation which these bodies bear to each other. The following is the nomenclature which he afterward adopted:—The crystalline matter of human biliary calcult is named chalesterine, from the Greek word  $\chi_0\lambda\eta_1$ , bile, and  $\chi_0\chi_0$ , solid; spermacett is named cettine, from  $\kappa\eta ros_5$ , a whale; the latty substance and the oily substance, are named respectively, stemping and chalors, from the words  $\chi_0\lambda_0$ , and  $\chi_0\lambda_0$ , from the words  $\chi_0\lambda_0$ , and  $\chi_0\lambda_0$ stearine and claime, from the words grap, and chator, oil; margarine, and the fluid fat obtained after sapo oil; margarine, and the finid fat contained after sape infication, are named margarie acid and obic acid, while the term cetic acid is applied to what was named saponified spermaciti. The margarates, obestes, and cetaers, will be the generic names of the soaps or combinations which these acids are capable of forming by their union with salifiable bases.

Two portions of human fat were examined, one taken from the kidney, the other from the thigh: after some time they both of them manifested a tendency to some time they both of them maintested a tendency to separate into two distinct substances, one of a solid, and the other of a fluid consistence: the two portions differed in their fluidity and their melting point. These variations depend upon the different proportions of steame and claime; for the concrete part of fat is a combination of the two with an excess of steame, and the fluid part is a combination with an excess of elalne. The fat from the other animals was then examined, principally with respect to their melting point and their solubility in alkohol; the melting point was not always the same in the fat of the same species of

Chevreuil next examines the change which is produced in the different kinds of fat respectively by the action of potassa. All the kinds of fat are capable of action of potassa. All the Finos of fat are capane of being perfectly saponified, when excluded from the contact of the air, in all of them there was the production of the saponified fat and the sweet principle; no car-bonic acid was produced, and the soaps formed con-tained no acetic acid, or only slight traces of it. The saponified fats had more tendency to crystallize in needles than the fats in their natural state; they were needles than the fats in their natural state; they were soluble in all proportions in boiling alkohol of the specific gravity of 821. The solution, like that of the saponified fat of the hog, contained both the marganic and the oleic acids. They were less fusible than the fats from which they were formed: thus, when human fat, after being saponified, was melted, the thermometer became stationary at 95°, when the fluid began to congeal, in that of the sheep, the thermometer fell to 118.5°, and rose to 122°; in that of the oxit remained stationary at 118.50; and in that of the jaguar

The method of analysis employed was to expose the different kinds of fat to boiling alkohol, and to suffer the mixture to cool: a portion of the fat that had been dissolved was then separated in two states of combi-nation; one with an excess of stearine was deposited, the other with an excess of claime was deposited,
The first was separated by filtration, and by distilling the filtered fluid, and adding a little water towards the end of the operation, we obtain the second in the retort, under the form of an alkoholic aqueous fluid. The tort, under the form of an alkoholo aqueous fluid. The distilled alkoholo which had been employed in the analysis of human fat, had no sensible odour; the same was the case with that which had served for the same was the case with that which had served for the same was the case with that which had served for the same was the case with that which had been employed in the goose. The alkohol which had been employed in the goose. The alkohol which had been employed in the analysis of the fat of the sheep, had a slight odour of candlegrease.

All the soaps of stearine were analyzed by the same process as the soap of the fat from which they had been extracted: there was procured from them the pearly super-margarate of potassa and the oleate; but the first was much more abundant than the second. The first was much more abundant than the second. The margaric acid of the stearines had precisely the same capacity for saturation as that which was extracted from the soaps formed of fat. The margaric acid of the stearine of the sheep was fusible at 144°, and that of the stearine of the on at 143.5°; while the margaric acids of the hog and the goose had nearly the same fusibility with the margaric acid of the fat of these animals. these animals.

Chevreuil technically calls spermaceti, cetine. In the fifth memoir, in which we have an account of many

of the properties of this substance, it was stated, that it | is not easily saponified by potassa, but that it is con verted by this reagent into a substance which is soluble in water, but has not the saccharine flavour of the sweet principle of oils; into an acid analogous to the mar-garic, to which the name of cetic was applied; and into another acid, which was conceived to be analogous to the oleic. Since he wrote the fifth memoir, the author has made the following observations on this subject:—1. That the portion of the soap of cetine which is insoluble in water, or the cetate of potassa, is in part gelatinous, and in part pearly: 2. The two kinds of crystals were produced from the cetate of potassa which had been dissolved in alkohoi: 3. That the cetate of potassa exposed, under a bell glass, to the the cetate of potassa exposed, under a bell glass, to the heat of a stove, produced a sublimate of a fatty matter which was not acid. From this circumstance Chevreuil was led to suspect, that the supposed cetic acid might be a combination, or a mixture of margaric acid, and of a fatty body which was not acid. He accordingly treated a small quantity of it with barytic water, and boiled the soap which was formed in alkohol; the greatest part of it was not dissolved, and the alkoholic solution, when crede filtered and distilled such each solution, when cooled, filtered, and distilled, produced a residuum of fatty matter which was not acid. The suspicion being thus confirmed, Chevreuil determined to subject cetine to a new train of experiments. Being treated with boiling alkohol, a cettine was pro-cured which was fusible at 120°, and a yellow fatty matter which began to become solid at 89.5°, and which matter which began to become some across and a which was separated by filtration.—Ure's Chem. Dic.
FATULTAS. (From fatuus, silly.) Fatuity or

FAUCES. (Faux, pl. fauces.) A cavity behind the tongue, palatine arch, uvula, and tonsils; from

which the pharynx and larynx proceed.

Fau'ret. Terra japonica, or catechu.

[Fausse avoine. False oats. Indian rice. See

Zizania aquatica. A.]

FAUX. (Faux, cis. f.) 1. The gorge, or mouth,
or opening of the guilet.

2. Applied by botanists to the opening of the tube

of monopetalous corals. See Corolla.

FAVA GO AUSTRALIS. (From favus, a honey-comb;

from its resemblance to a honey-comb.) A species of bastard sponge.
FAVOSUS. (From favus, a honey-comb.) Honey-comb-like, 1. Applied to some cruptive diseases; as

Lichen facosus, the secretion in which is cellular and honey-comb-like.

2. To parts of plants, as the receptacle of the ono-pordium which has cells like a honey-comb.

FAVUS. 1. A honey-comb.

FAVUS. 1. A honey-comb.

2. A species of achor, or foul ulcer.

FE'BRES. (The plural of febris.) An order in the class Pyrexia, of Cullen, characterized by the presence of pyrexia, without primary local

FEBRI'CULA. (Dim. of febris, a fever.) A term employed to express a slight degree of symptomatic

FERRIFUGA. (From febrem fugare, to drive away a fever.) The plant feverfew; less centaury. FE BRIFUGE. (Febrifugus; from febris, a fever, and fugo, to drive away.) That which possesses the property of abating the violence of any fever.

February Cremit. Regulus of antimony. February oleum. February oil. The flowers

of antimony, made with sal-aumoniac and antimony subtimed together, and exposed to the air, when they

FEBRIFUGUS PULVIS. Febrifuge powder. The Germans give this name to the pulvis stypticus Helvetii. In England, a mixture of oculi cancrorum and emetic tartar, in the proportion of half a drachm and two grains, has obtained the same name; in fevers it is

grains, has obtained the same hance, in fevers it is given in doses of gr. iii. to iv.

FEBRIFYGUS SAL. Regenerated marine salt.

FEBRIS, (Febris, is. f.; from fervee, to burn.) A fever. A disease chalacterized by an increase of heat, an accelerated pulse, a fout tongue, and an impaired stateof several functions of the body.

FEBRIS ALBA. See Chlorosis.

FEBRIS ANDIMERINA. A quotidian fever. FEBRIS ANDIMOSA. See Scarlatina anginosa. FEBRIS APHTHOSA. See Jphtha.

FEBRIS ARDENS. Fever attended by a very hotor burning state of the skin. A burning inflammatory fever, Februs associes. A tertian fever, with extreme restlessness

FEBRIS BULLOSA. See Pemphigus. FEBRIS CALATORIA. An intermittent fever, with diarrhæa.

FEBRIS CARCERUM. The prison fever. FEBRIS CASTRENSIS. A camp fever camp fever, generally

typhus.

FEBRIS CATARRHALIS. A fever, either typhoid, nervous, or synochal, attended with symptoms of ca-

FEBRIS CHOLERICA. A fever, attended throughout with bilious diarrhæa.

FEBRIS CONTINUA. A continued fever. A division of the order Febres, in the class Pyrexia, of Cullen. Continued fevers have no Intermission, but exacerbations come on usually twice in one day. The genera of continued fever are

1. Synocha, or inflammatory fever, known by increased heat; pulse frequent, strong, and hard; urine high-coloured; senses not much impaired. See Sy-

a. Tuphus, or putrid-tending fever, which is contagious, and is characterized by moderate heat; quick, weak, and small pulse; senses much impaired, and great prostration of strength. This genus has two species; Tuphus petechiales, attended with petechiae; and Typhus ieterodes, or yellow fever; and of the former there are two varieties: Typhus mitror, or nervous fever; and Typhus gravior, or puttid fever. See Febris nervoea, and Typhus.

3. Synochus, or mixed fever. See Synochus.

FEBRIS ELODES. A fever with continual and pro

fuse sweating.

FEBRIS EPIALA. A fever with a continual sense of coldness. See Epialus.

FEBRIS ERYSIPELATOSA. See Erysipelas.
FEBRIS EXANTHEMATICA. A fever with an erupon. See Exanthema. tion.

tion. See Firanthema.
FEBRIS FLAVA. See Typhus.
FEBRIS HECTICA. A genus of disease in the class
Pypreria, and order Februs, of Cullen. It is known by
exacerbations at noon, but greater in the evening, with
slight remissions in the morning, after nocturnal
sweater; the urine depositing a furfurance-lateritions
sediment; appetite good; thirst moderate. Hectic
fever is symptomatic of chlorosis, scrofula, plathisis,
diseased viscera, &cc.
FEBRIS BURGARICA. A species of testian intensity

FEBRIS HUNGARICA. A species of tertian intermit-

tent fever.

FEBRIS HYDRODES. A fever with profuse sweats.

FEBRIS HYDRODES. A fever with profuse sweats. FEBRIS INFLAMMATORIA. See Symocha.
FEBRIS INFLAMMATORIA. See Symocha.
FEBRIS INFERMITTENS. An intermittent fever, or ague. A division of the order Febres, of Cullen, in the class Pyrexias. Intermittent fevers are known by cold, hot, and sweating stages, in succession, attending each paroxysum, and followed by an intermission or remission. There are three genera of intermitting fevers, and several varieties.

1. Quotidiama. A quotidian ague. The paroxysms return in the marring, at an interval of about twenty.

return in the morning, at an interval of about twenty-

four hours.

2. Tertiana. A tertian ague. The paroxysms commonly come on at mid-day, at an interval of about

forty-eight hours.

3. Quartana. A quartan ague. The paroxysms come on in the afternoon, with an interval of about seventy-two hours. The tertian ague is most apt to

prevail in the spring, and the quartan in autumn.

Of the quotidran, tertian, and quartan intermittents, there are several varieties and forms; as the double tertian, having a paroxysm every day, with the alternate paroxysms, similar to one another. The double tertian, naving a parxysms every other day. The tertian, with two parxysms every other day. The triple tertian, with two parxysms on one day, and another on the next. The double quartan, with two parxysms on one day, and thord on the first day, none on the second and third, and two again on the fourth day. The double quartan, with a parxysm on the first day, another on the second, but none on the third. The triple quartan, with a parxysms every fourth day. The triple quartan, with a parxysm every day, every fourth parxysm being similar.

When these fevers arise in the spring of the year, they are called vernal; and when in the autumn, they

they are called vernal; and when in the autumn, they

are known by the name of autumnal. Intermittents often prove obstinate, and are of long duration in warm climates; and they not unfrequently resist every mode of cure, so as to become very distressing to the patient; and by the extreme debility which they thereby induce, often size rise to other chronic complaints.

patient; and by the extreme debility which they thereby induce, often give rise to other chronic complaints. It seems to be pretty generally acknowledged, that marsh miasmata, or the effluvia arising from stagmant water, or marshy ground, when acted upon by heat, are the most frequent exciting causes of this fever. In marshes, the putrefaction of both vegetable and animal matter is always going forward, it is to be presumed; and hence it has been generally conjectured, that vegetable and animal putrefaction imparted a peculiar quality to the effluvia arising from thence. We are not yet acquainted with all the circumstances, which are requisite to render marsh miasma productive of the intermittents; but it may be presumed that a moist atmosphere has a considerable influence in promoting its action. A watery poor diet, great fatigue, long watching, grief, much anxiety, exposure to cold, lying in damp rooms or beds, wearing damp linen, the suppression of eruptions, have been ranked among the exciting causes of intermittents; but it is more reasonable to suppose that these circumstances act only by inducing that state of the body, which predisposes to these complaints. By some it has been imagined that an intermittent fever may be communicated by contagion; but this supposition is by no means consistent with general observation.

more reasonable to suppose that these circumstances act only by inducing that state of the body, which predisposes to these complaints. By some it has been imagined that an internittent fever may be communicated by contagion; but this supposition is by no means consistent with general observation.

One peculiarity of this fever is, its great susceptibility of a renewal from very slight causes, as from the prevalence of an easterly wind, even without the repetition of the original exciting cause. It would appear that a predisposition is left in the habit, which favours the recurrence of the complaint. In this circumstance, intermittents differ from most other fevers, as it is well known, that after a continued fever has once occurred, and been removed, the person so affected is by no means so liable to a fresh attack of the disorder, as one in whom it had never taken place.

We have not yet attained a certain knowledge of the proximate cause of an intermittent fever, but a deranged state of the stomach and primæ viæ is that which is most generally ascribed.

Each paroxysm of an intermittent fever is divided into three different stages, which are called the cold, the but and the specting stages or fits

the hot, and the sweating stages or fits.

The cold stage commences with languor, a sense of debitity and stuggishess in motion, frequent yawning and stretching, and an aversion to food. The face and extremities become pale, the features sbrink, the bulk of every external part is diminished, and the skin over the whole body appears constricted, as if cold had been applied to it. At length the patient feels very cold, and universal rigors come on, with pains in the head, back, loins, and joints, nausea, and vomiting of bilious natter; the respiration is small, frequent, and anxious; the urine is almost colourless; sensibility is greatly impaired; the thoughts are somewhat confused; and the pulse is small, frequent, and often irregular. In a few instances, drowsiness and stupour have prevailed in so high a degree as to resemble coma or apoplexy; but this is by no means usual.

These symptoms abating after a short time, the second stage commences with an increase of heat over the whole budy, redness of the face, dryness of the skin, thirst, pain in the head, throbbing in the temples, anxiety and restlessness; the respiration is fuller and more free, but still frequent; the tongue is furred, and the pulse has become regular, hard, and full. If the attack has been very severe, then perhaps delirium will arise.

When these symptoms have continued for some time, a moisture breaks out on the forehead, and by degrees becomes a sweat, and this, at length, extends over the whole body. As this sweat continues to flow, the heat of the body abates, the thirst ceases, and most of the functions are restored to their ordinary state. This constitutes the third stage.

It must, however, be observed, that in different cases these phenomena may prevail in different degrees, and their mode of succession vary; that the series of them may be more or less complete; and that the several stages, in the time they occupy, may be in different proportions to one another.

Such a depression of strength has been known to take place on the attack of an intermittent, as to cut off the patient at once; but an occurrence of this kind is very uncommon.

Patients are seldom destroyed in intermittents from general inflammation, or from a fulness of the vessels either of the brain or of the thoracic viscera, as happens sometimes in a continued fever; but when they continue for any length of time, they are apt to induce other complaints, such as a loss of appetite, flattlency, schirrhus of the liver, dropsical swellings, and general debitity, which in the end now and then prove fatal. In warm climates, particularly, intermittents are very apt to terminate in this manner, if not speedily removed; and in some cases, they degenerate into continued fevers. When the paroxysms are of short duration, and leave the intervals quite free, we may expect a speedy recovery; but when they are long, violent, and attended with much anxiety and defirium, the event may be doubtful. Relapses are very common to this fever at the distance of five or six months, or even a year; autumnal intermittents are more difficult to remove than vernal ones, and quartans more so than the other types.

so than the other types.
Dissections of those who have died of an intermittent, show a morbid state of many of the viscera of the
thorax and abdomen; but the liver, and organs concerned in the formation of bile, as likewise the mesentery, are those which are usually most affected.
The treatment of an intermittent fever resolves itself

into those means, which may be employed during a paroxysm, to arrest its progress, or to mitigate its violence; and those, which may prevent any return, and effect a permanent cure: this forms of course the more important part of the plan; but it is sometimes necessary to paliate urgent symptoms; and it is always desirable to suspend a paroxysm, if possible, not only to prevent mischief, but also that there may be more time for the use of the most effectual remedies. When therefore a fit is commencing, or shortly expected, we may try to obviate it by some of those means, which excite movements of an opposite description in the system; an emetic will generally answer the purpose, determining emetic will generally answer the purpose, determining the blood powerfully to the surface of the body; or a full dose of opium, assisted by the pediluvium, &c.; æther also, and various stimulant remedies, will often succeed, but these may perhaps aggravate, should they not prevent the fit; the cold bath, violent exercise, strong impressions on the mind, &c. have likevise been occa-sionally employed with effect. Should the paroxysm have already come on, and the cold stage be very se-vere, the warm bath, and cordial disphoretics in repeated moderate doses, may assist in bringing warmth to the surface: when, on the contrary, great heat prevails, the antiphlogistic plan is to be pursued; and it may be sometimes advisable, when an organ of importance is much pressed upon, to take some blood locally, or even from the general system, if the patient locally, or even from the general system, it the bacteries plethoric and robust: and where profuse perspirations occur, acidulated drink may be exhibited, with a little wine to support the strength, keeping the surface cool at the same time. In the intermissions, in conjunction with a generous diet, moderate exercise, and other means calculated to improve the vigour of the system; tonics are the remedies especially relied upon. At the tonics are the remedies especially relied upon. At the head of these we must certainly place the cinchona, which, taken largely in substance, will seldom fail to cure the disease, where it is not complicated with visceral affection: in a quotidian an ounce at least should be given between the fits, in a tertian half as much more, and in a quarrant two ounces. It will be generally better to clear out the primes wis before this result is been with a season as a season of the primes wis before this result is been with a season of the season of t medy is begun with; and various additions may often be required, to make it agree better with the stomach and bowels, particularly aromatics and other stimulants, aperients or small doses of opium, according to circumstances. We must not be content with the omission statices. We must not be content with the omission of a single paroxysm, but continue it till the health appears fully established. In failure of the cinchona, other vegetable tonics may be tried, as the salix, gentian, calumba, and other bitters; or the astringents, as train, cardinos, and other officers; of the astringents, as tormentil, galls, &c.; or these variously combined with each other, or with aromatics. The mineral acids are often powerfully tonic, and the sulphuric has been of late stated to have proved very successful in the removal of this disease. Some metallic preparations are also highly efficacious, particularly the liquor arsenicais,

which, however, is too hazardous a remedy to be employed indiscriminately; it must be given in small doses two or three times a day, and its effects assiduously watched. The sulphate of zine, and chalybeates, may be used more freely alone, or preferably joined with bitters. Where visceral disease attends, we can hardly succeed in curing the ague, till this be removed; a state of congestion, or inflammatory tendency, may require local bleeding, bilistering, purging, &c.; and when there is a more fixed obstruction, particularly in the liver, the cautious use of mercury will be most likely to avail.

FERRIS LACTEA. Milk fever, which is mostly of the synochus-type attended with much irregularity of mind, and nervousness.

and nervousness.

FEBRIS MILIARIS. See Miliaria.

FEBRIS MILIARIS. A fever, either typhus or synochus, attended by an eruption like small lentils.

FEBRIS MILIARIS. See Typhus.

FEBRIS MILIARIS. See Miliaria.

Februs Millaris. See Juliaria.
Februs Morbillosa. See Rubeola.
Februs Mervosa. Febris lenta nervosa. The nervosa is respectively of the typhus mitior of Cullen, but by many considered as a distinct disease. It mostly hegins with loss of appetite, increased heat and vertical terms of the control of the con negtis with loss of appetite, increased heat and vertigo; to which succeed nausea, vomiting, great languar, and pain in the head, which is variously described, by some like cold water pouring over the top, by others a sense of weight. The pulse, before little increased, now becomes quick, febrile, and tremulous; the tongue is covered with a white crust, and there is great anxiety about the precordia. Towards the seventh or eighth how been awaite crist, and the seventh or eighth about the precordia. Towards the seventh or eighth day, the vertigo is increased, and tinnitus aurium, cophosis, delirum, and a dry and tremulous tongue, take place. The disease mostly terminates about the fourteenth or twentieth day. See Typhus. FEBRIS NOSOCOMORUM. The fever of hospitals, mostly the typhus gravior.

Penris palustris. The marsh fever

See Pestis.

FEBRIS FEBRICALIS. See Typhus.
FEBRIS FUTRIDA. See Typhus.
FEBRIS REMITTENS. A remittent fever: a fever with
strong exacerbations, which approach in some cases to the nature of a paroxysm of an intermittent, and which follow each other so closely as to leave very little time between. In some, there is a great secretion of bile, when it is called a bilious remittent; in others, there is great putrescency, when it is termed a putrid remittent, and so on.

FEBRIS SCARLATINA. See Scarlatina. FEBRIS SYNOCHA. See Synocha.

FEBRIS TYPHODES. See Typhus. FEBRIS URTICARIA. See Urticaria.

FEBRIS VARIOLOSA. See Variola

FEBRIS VESICULOSA. See Erysipelas. FECULA. See Facula. FECUNDATION. See Generation.

FEL. See Bile

FEL-WORT. See Aloes. So called from its bitter taste, like See Gentiana.

The gall-bladder. FELLI'CULUS.

FELLI'FLUA PASSIO. See Cholera. Frlon. See Paronychia.

FELSPAR. An important mineral genus, distributed by Jameson into four species: prismatic felspar; pyramidal felspar; prismato-pyramidal felspar; rhomboidal

The prismatic felspar has nine sub-species,

Adularia

b. Glassy felspar.

Ice spar. Common felspar.

- Labradore felspar.
- Compact felspar.
- Clink-stone.
- Earthy common spar.
- Porcelain earth.
- Pyramidal felspar. This embraces the scapolite

and enoute.

3. Prismuto-pyramidal felspar. See Meionite.

4. Rhomboldal felspar. See Nepheline. Chiastolite and sodalite have also been anneved to this species.

[Fester. Blue felspar of Stiria. A.]

Ferman. (Quasi ferimen; from fero, to bear: so called because it is the chief support of the body.)

FEMINEUS. A flower is termed a female, which is furnished with the pistillum, and not with the stamina; the pistil being considered as the female generative

organ.

FEMORAL. (Femoralis; from femur, the thigh.)

Of or belonging to the thigh.

FEMORA'LIS ARTERIA. A continuation of the external iliac along the thigh, from Poupart's ligament to

The thigh-bone. A long cylindrical bone, situated between the pelvis and tibia. Its upper extremity affords three considerable processes; these are, the head, the trochanter major, and trochanter minor. The head, which forms about two-thirds of a sphere, is turned inwards, and is received into the acetabulum of the os innominatum, with which it is articulated by enarthrosis. It is covered by a cartilage, which is thick in its middle part, and thin at its edgres, but which is wanting in its lower internal part, where a round spongy fossa is observable, to which the strong ligament, usually, though improperly, called the round one, is attached. This ligament is about an inch in length, flattish, and of a triungular shape, having its narrow extremity attached to the fossa just described, narrow extremity attached to the fossa just described, while its broader end is fixed obliquely to the rough surface near the inner and anterior edge of the acc-tabulum of the os innominatum, so that it appears shorter internally and anteriorly, than it does externally

shorter internally and anteriorly, than it does externally and posteriorly. The head of the os femoris is supported obliquely, with respect to the rest of the bone, by a smaller part, called the cerviz, or neck, which, in the generality of subjects, is about an inch in length. At its basis we observe two oblique ridges, which extend from the trochanter major to the trochanter minor. Of these ridges, the posterior one is the most prominent. Around this neck is attached the capsular ligament of the joint, which likewise adheres to the edge of the cotyloid cavity, and is strengthened anteriorly by many strong ligamentous fibres, which begin from the lower and anterior part of the filium, and spreading broader as they descend, adhere to the capsular ligament, and are attached to the anterior oblique ridge at the bottom of the neck of the femur. Posteriorly and externally, from the basis of the neck of the hone, a large unequal protuberance stands out, which is the trochanter major. The upper edge of this process is sharp and pointed posteriorly, but is more obtuse anteriorly. A part of it is rough and unequal, for the insertion of the muscles; the rest is smooth, and covered with a thin carillaginous crust, between which and the tendon of the glutzeus maximus that slides over it, a large bursa mucosa is interposed: Anteriorly, at the root of this process, and immediately below the bottom of the neck, is a small process called trochanter minor. Its basis is nearly triangular, having its two upper angles turned towards the head of the femur and the great trochanter, while triangular, having its two upper angles turned towards the head of the femur and the great trochanter, while its lower angle is placed towards the body of the bone. Its summit is rough and rounded. These two processes have gotten the name of trochanters, from the muscles that are inserted into them being the principal instruments of the rotatory motion of the thigh. Immediately below these two processes the body of the bone may be said to begin. It is smooth and convex before, but is made hollow behind by the action of the muscles. In the middle of this posterior concave surface is observed a rough ridge, called linea aspera, which seems to originate from the trochanters, and exhibits the seems of the trochanters are the seems of the trochanters and exhibits and the seems of the trochanters are the seems of the seems of the seems of the seems of the trochanters are the seems of the se which seems to originate from the trochanters, and ex tending downwards, divides at length into two branches, which terminate in the tuberosities near the condyles. At the upper part of it, blood-vessels pass to the internal substance of the bone by a hole that runs obliquely

upwards.

The lower extremity of the os femoris is larger than the upper one, and somewhat flattened, so as to form two surfaces, of which the anterior one is broad and convex, and the posterior one narrower and slightly concave. This end of the hone terminates in two large protuberances, called aondyles, which are united before so as to form a pulley, but are separated behind by a considerable cavity, in which the crural vessels and nerves are placed secure from the compression to which they would otherwise be exposed in the action of bending the leg. Of these two condyles, the crural one is the largest; and when the hone is separated from the rest of the skeleton, and placed perpendicularly, the internal condyle projects less forwards. dicularly, the internal condyle projects less forwards,

and descends nearly three-tenths of an inch lower than the external one; but in its natural situation, the bone is placed obliquely, so that both condyles are then nearly on a level with each other. At the side of each condyle, externally, there is a tuberosity, the situation of which is similar to that of the condyles of the os humeri. The two branches of the linea aspera terminate in these tuberosities, which are rough, and serve for attachment of ligaments and muscles. FE'MUR. (From \$\phi\_{ave}\$, and muscles. FENE'STRA. (From \$\phi\_{ave}\$, quasi phanestra.) A window, entry, or hole.

FENESTRA OVALES. An oblong or elliptical foramen, between the cavity of the tympanum and the vestibulum of the ear. It is shut by the stapes.

FENESTRA ROTUNDA. A round foramen, leading from the tympanum to the cochlea of the ear.

from the tympanum to the cother of the ear. It is covered by a membrane in the fresh subject.

FE'NNEL. See Anethum famiculum.

FENUGREEK. See Trigonella famum gracum.

FE'RINE. (Ferinus, savage or brutal.) A term occasionally applied to any malignant or noxious diseas

case.
FERMENTA'TION. (Fermentatio, onis. f.; from fermenta, to ferment). When aqueous combinations of vegetable or animal substances are exposed to ordinary atmospherical temperatures, they speedily undergo spontaneous changes, to which the generic term of termentation has been given. There are several circumstances required in order that fermentation may proceed: such are, 1. A certain degree of fluidity: thus, dry substances do not ferment at all. 2. A certain degree of heat. 3. The contact of air. Chemists, after Boerhaave, have distinguished three kinds of fermentation. fermentation.

1. The vinous or spirituous, which affords ardent spirit.

2. The acctous, which affords vinegar, or acetic acid.
3. The putrid fermentation, or putrefaction, which produces volatile alkali.

produces voiatile alkali.

I. The conditions necessary for vinous fermentation are: 1. A saccharine mucilage. 2. A degree of fluidity slightly viscid. 3. A degree of heat between 55 and 65 of Fahrenheit. 4. A large mass, in which a rapid commotion may be excited. When these four conditions are united, the vinous fermentation takes place, and is known by the following characteristic phenomena: 1. An intestine motion takes place. 2 The bulk of the mixture then becomes augmented. 3. The transparency of the fluid is diminished by opaque filaments. 4. Heat is generated. 5. The solid parts mixed with the liquor rise and float in consequence of the disengagement of elastic fluid. 6. A large quantity of carbonic acid gas is disengaged in bubbles. All these phenomena gradually cease in proportion as the these phenomena gradually cease in proportion as the these phenomena gradually cease in proportion as the liquor loses its sweet and mid taste, and it becomes brisk, penetrating, and capable of producing intoxication. In this manner, wine, beer, cider, &c. are made. All bodies which have undergone the spirituous fermentation are capable of passing on to the acid fermentation, but although it is probable that the acid fermentation never takes place before the body has gone through the spirituous fermentation, yet the duration of the first is frequently so short and imperceptible, that it cannot be ascertained. Besides the bodies which are proper for spirituous fermentation, this class includes all sorts of fæcula boiled in water.

If The conditions required for the acid fermenta-

which are proper for spirituous termentation, this class includes all sorts of facula boiled in water.

II. The conditions required for the acid fermentation are, 1. A heat from 70 to 85 degrees of Fahrenheit. 2. A certain degree of liquidity. 3. The presence of atmospheric air. 4. A moderate quantity of fermentable matter. The phenomena which accompany this fermentation, are an intestine motion, and a considerable absorption of air. The transparent liquor becomes turbid, but regains its limpidity when fermentation is over. The fermented fliquor now consists, in a great measure, of a peculiar acid, called the actic acid, or vinegar. Not a vestige of spirit remains, it being entirely decomposed, but the greater the quantity of spirit in the liquor, previous to the fermentation, the greater will be the quantity of true vinegar obtained. As the ultimate constituents of vegetable matter are oxygen, hydrogen, and carbon; and of animal matter, the same three principles with azote, we can readily understand that all the products of fermentation must be merely new compounds of these three or tion must be merely new compounds of these three or

and descends nearly three-tenths of an inch lower than the external one; but in its natural situation, the bone is placed obliquely, so that both condyles are then nearly on a level with each other. At the side of each condyle, externally, there is a tuberosity, the situation of which is similar to that of the condyles at the property of the external of the condyles at the same ultimate components, in the manner, wines are situation of which is similar to that of the condyles. an resolvable into the same ununate components, in proportions somewhat different. The acriform results of putrefactive fermentation are in like manner found of putrefactive termentation are in the channer noise to be, hydrogen, carbon, oxygen, and azote, variously combined, and associated with minute quantities of sulphur and phosphorus. The residuary matter consists of the same principles, mixed with the saline and earthy parts of animal bodies.

earthy parts of animal bodies.

Lavoisier was the first philosopher who instituted, on right principles, a series of experiments to investigate the phenomena of fermentation, and they were so judiciously contrived, and so accurately conducted, asto give results comparable to those derived from the more rigid methods of the present day. Since then, Thenand and Gay Lussac have each contributed most important researches. By the labours of these three illustrious chemists, those material metamorphoses, formerly quite mysterious, seem susceptible of a satisfactory explanation.

As sugar is a substance of uniform and determinate

As sugar is a substance of uniform and determinate composition, it has been made choice of for determining the changes which arise when its solution is fermented the changes which arise when its solution is fermented into wine or alkohol. Lavoisier justly regarded it as a true vegetable oxide, and stated its constituents to be, 8 hydrogen, 28 carbon, and 64 oxygen, in 100 parts. By two different analyses of Berzelius, we have, Hydrogen 6.802 6.891

Carbon 44.115 42.704

Oxygen 49.083 50.405

100,000 100,000 Gay Lussac and Thenard's analysis gives, Hydrogen 6.90 / 57.53 water, Oxygen 50.63 / 57.53 water, Carbon 42.47 42.47 100 00 100 00

It has been said, that sugar requires to be dissolved in at least 4 parts of water, and to be mixed with some In at least 4 parts of water, and to be inset with some yest, to cause its fermentation to commence. But this is a mistake. Syrup stronger than the above will ferment in warm weather, without addition. If the temperature be low, the syrup weak, and no yest added, acctous fermentation alone will take place. To determine the vinous, therefore, we must mix certain proportions of saccharine matter, water, and yest, and

place them in a proper temperature.

To observe the chemical changes which occur, we must dissolve 4 or 5 parts of pure sugar in 20 parts of water, put the solution into a matrass, and add 1 part water, but the solution into a matrass, and add 1 part of yest. Into the mouth of the matrass a glass tube must be litted, which is recurved, so as to dip into the mercury of a pneumatic trough. If the apparatus be now placed in a temperature of from 70° to 80°, we shall speedily observe the syrup to become muddy, and a multitude of air bubbles to form all around the ferment. These unite, and attaching themselves to particles of the yest, rise along with it to the surface, forming a stratum of froth. The yesty matter will then disengage itself from the air, fall to the bottom of the vessel, to reacquire buoyancy a second time by attached air bubbles, and thus in succession. If we operate on 3 or 4 ounces of sugar, the fermentation will be very rapid during the first ten or twelve hours; it will then slacken, and terminate in the course of a few days. At this period the matter being deposited which disturbed the transparency of the liquor, this will bedisturbed the transparency of the liquor, this will become clear.

come clear.

The following changes have now taken place: 1.

The sugar is wholly, and the yest partially, decomposed. 2. A quantity of alkohol and carbonic acid, together nearly in weight to the sugar, is produced. 3. A white matter is formed, composed of hydrogen, oxygen, and carbon, equivalent to about half the weight of the decomposed ferment. The carbonic acid passes over into the oneumatic apparatus: the alkohol may over into the pneumatic apparatus; the alkohol may be separated from the vinous liquid by distillation, and the white matter falls down to the bottom of the matrass with the remainder of the yest

The quantity of yest decomposed is very small. 100

parts of sugar require, for complete decomposition, only two and a half of that substance, supposed to be in a dry state. It is hence very probable, that the ferment, which has a strong affinity for oxygen, takes a little of it from the saccharine particles, by a part of its hydrogen and carbon, and thus the equilibrium being broken between the constituent principles of the sugar, these so react on each other, as to be transformed into alkohol and carbonic acid. If we consider the composition of alkohol, we shall find no difficulty in tracing the steps of this transformation.

Neglecting the minute products which the yest fur-

Neglecting the minute products which the yest fur nishes, in the act of fermentation, let us regard only the alkohol and carbonic acid. We shall then see, on comparing the composition of sugar to that of alkohol. that to transform sugar into alkohol, we must with-draw from it one volume of vapour of carbon, and one volume of oxygen, which form by their union one volume of carbonic acid gas. Finally, let us reduce the volumes into weights, we shall find, that 100 parts of sugar ought to be converted, during fermentation, into 51.55 of alkohol, and 48.45 of carbonic acid.

this 31.50 of alkohol, and 30.40 of carroine acra:
When it is required to preserve fermented liquors in
the state produced by the first stage of fermentation, it
is usual to put them into casks before the vinous process is completely ended; and in these closed vessels a
change very slowly continues to be made for many

months, and perhaps for some years.

But if the fermentative process be suffered to proceed in open vessels, more especially if the temperature be raised to 90 degrees, the acetous fermentation comes on. In this, the oxygen of the atmosphere is absorbed and the more speedily in proportion as the surfaces of and the more speculy in proportion as the surfaces of the liquor are often changed by lading it from one ves-sel to another. The usual method consists in exposing the fermented liquor to the air in open casks, the bung-hole of which is covered with a tile to prevent the en-trance of the rain. By the absorption of oxygen which takes place, the inflammable spirit becomes converted into an acid. If the liquid be then exposed to distilla-

tion, pure vinegar comes over instead of ardent spirit.
III. When the spontaneous decomposition is suffered
to proceed beyond the acetous process, the vinegar becomes visid and foul; air is emitted with an offensive snell; volatile alkali flies off; an earthy sediment is deposited; and the remaining liquid, if any, is mere water. This is the putrefactive process. See also

Purrifaction.
FERME NTUM. (Quasi fervimentum, from ferveo, to work.) Yest.
FERMENTUM CERBVISTE. Yest; Barm; the scum FERMENTUM CEREVISIE. Yest; Barm; the scum which collects on beer while fermenting, and has the property of exciting that process in various other substances. Medicinally it is, antiseptic and tonic; and has been found useful internally in the cure of typhus has been folial useful meterially in the cure of typins fever attended with an obvious tendency to putrefaction in the system with petechia, vibices, and the like: the best way to administer it, is to mix a fluid ounce with seven of strong beer, and give three table spoonfuls to an adult every three or four hours. Externally, it is used in the fermenting cataplasm.

FERM. See Filix and Polypodium.

Ferm. male. See Polydodium bits mas.

FERN See Filix and Polypodium.
Fern, male. See Polydodium, filix mas.
Fern, femule. See Pteris aquilina.
FERNEL, John, was born at Claremont, near the end of the 15th century. He went at the age of 19 to prosecute his studies at Paris, and distinguished himself so much, that, after taking the degree of master of arts, he was chosen professor of dialectics in his college. His application then became intense, till a quartan ague obliged him to seek his native air: and on his return to Paris, he determined on the medical profession, and taught philosophy for his support, till in 1530, he took his doctor's degree. Soon after he married, and speedily got into extensive practice; and at length was made physician to the Dauphin, who afterward became Henry II. He was obliged to accompany that monarch in his campaigns, yet he still, though at the age of sixty, seldom passed a day without writing. But in 1558, having lost his wife of a fever, he did not long survive her. His works are numerous on philosophical, as well as medical subjects of the latter, the most esteemed were his "Medicina," dedicated to Henry II., and a posthumous treatise on

FERRAME'NTUM. An instrument made of iron. FERRO-CHYAZIC ACID. Acidum ferro-chyazi-

cum; chyavicum, from the initial letters of carbon, hydrogen, and azote.) An acid obtained by Porrett by adding to a solution of fetro-cyanite of barytes, sulphuric acid just enough to precipitate the barytes. It has a pale yellow colour, no smell, and is decomposed by gentle heat or strong light, in which case hydrocyanic acid is formed, and white hydrocyanite of iron is deposited, which becomes blue by exposure.

FERRO-CYANATE. A compound of ferro-prussic acid with salifiable bases.

FERRO-CYANIC ACID. See Ferro-prussic acid.

FERRO-PRUSSIC ACID. Acidum ferro-prussic cum. Acidum ferro-cyanicum.

FERRO-PRUSSIC ACID. See Ferro-prussic acid. FERRO-PRUSSIC ACID. Acidum ferro-cyanicum. Into a solution of the amber-coloured crystals, usually called prussintes of potassa, pour hydro-sulphuret of barytes, as long as any precipitate falls. Throw the whole on a filter, and wash the precipitate with cold water. Dry it, and having dissolved 100 parts in cold water, add gradually thirty of concentrated sulphuric acid; agitate the mixture, and set it aside to repuse. The supernatant liquid is ferro-prussic acid, called by Forrett, who had the merit of discovering it, ferruretted chyazic acid. It has a pale lemon-yellow colour, but no smell. Heat and light decompose it. Hydrocyanic acid is then formed, and white ferro-prussiate of iron, which soon becomes blue. Its affinity for the bases enables it to displace acetic acid, without heat, from the acetates, and to form ferro-prussiates.

FE'RRUM. (Ferrum, i. neut.; the etymology uncertain.) Iron. See Iron. Acidum ferro-prussi-Into a solution of the

FERRUM AMMONIATUM. Ammoniated iron; formerly known by the names of flores martiales; flores salls ammoniaci martiales; ens martis; ens veneris salts ammoniaci martiales; cus martis; cus veneris Baylei; sal martis muriaticum sublimatum, and lately by the title of ferrum ammoniacale. Take of subcarbonate of iron, muriate of ammonia, of each a pound. Mix them intimately, and sublime by immediate exposure to a strong fire; lastly, reduce the sublimed ammoniated iron to powder. This preparation is astringent and deobstruent, in doses from three to fifteen grains, or more, in the form of bolus or pilis, prepared with some gum. It is exhibited in most cases

prepared with some gum. It is exhibited in most cases of debility, in chlorosis, asthenia, menorrhagia, intermittent fevers, &c. This or some other strong preparation of iron, as the Tinct. ferri muriatis, Mr. Cline is wont to recommend in schirrhous affections of the breast. See Tinctura ferri ammoniati.

FERRUM TARTARIZATUM. Tartarized iron. A tartate of potassa and iron; formerly called tartarus chalybeatus; mars solubilis; ferrum potabile. Take of iron, a pound; supertartrate of potassa, powdered, two pounds; water, a pint. Rub them together; and expose them to the air in a broad glass vessel for eight days, then dry the residue in a sand bath, and reduce it days, then dry the residue in a sand bath, and reduce it days, then dry the residue in a sand oath, and reduce it to a very fine powder. Add to this powder a pint more water, and expose it for eight days longer, then dry it, and reduce it to a very fine powder. Its virtues are astringent and tonic, and it forms in solution an excellent tonic fomentation to contusions, lacerations, distortions, &c. Dose from ten grains to half a drachm.

FERRI ALKALINI LIQUOR. Solution of alkaline iron. Take of iron, two drachins and a half; nitric acid, two fluid ounces; siellied water, six fluid ounces; solution of subcarbonate of potassa, six fluid ounces. Having mixed the acid and water, pour them upon the iron, and when the effervescence has ceased, pour off iron, and when the effervescence has ceased, pour off the clear acid solution; add this gradually, and at intervals, to the solution of subcarbonate of potassa, occasionally shaking it, until it has assumed a deep brown-red colour, and no further effervescence takes place. Lastly, set it by for six hours, and pour off the clear solution. This preparation was first described by Stael, and called tinctura martis alkalina, and is now introduced in the London Pharmacopaia as affording a combination of iron distinct from any other, and often applicable to practice. The dose is from half a often applicable to practice. drachm to a drachm.

FERRI LIMATURA PURIFICATA. Purified iron filinga.
These possess tonic, astringent, and deobstruent virtues, and are calculated to relieve chlorosis and other

tues, and are calculated to relieve emotions and obtain diseases in which sixed is indicated, where acidity in the prime vin abounds. FERRI RUBIGO. See Ferri subcarbonas. FERRI SUBCARBONAS. Ferri carbonas; Ferrum pracipitatum, formerly called chalybis rubigo, propa-21.

FIR FER

rata and ferri rubigo. Subcarbonate of iron. Take of sulphate of iron, eight ounces; subcarbonate of soda, six ounces; boiling water, a gallon. Dissolve the sulphate of iron and subcarbonate of soda separately, each in four pints of water; then mix the solutions together and set it by, that the precipitated powder may subside; then having poured off the supernatant liquor, wash the subcarbonate of iron with hot water, and dry it upon bibulous paper in a gentle heat. It possesses mild corroborant and stimulating properties, and is exhibited with success in leucorribea, ataxia, asthenia, chlorosis, dyspepsia, rachitis, &c. Dose from two to ten grains.

Ferria sulphate of iron, eight ounces; subcarbonate of soda, six ounces; of well entered as an emmenageque, authelmintic, antischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, autischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, autischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, autischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, autischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, autischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, autischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, autischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, autischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, autischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, autischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, antischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, antischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, antischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, antischmatic, and anodyne. Dr. Culen prefers it as an emmenageque, authelmintic, antischmatic, and anodyne. Dr. Culen prefers it as

FERRI SULPHAS. Sulphate of iron; formerly called sal martis, vitriolum martis, vitriolum forn; and ferrum vitriolatum. Green vitriol. Take of iron, sulphuric acid, of each by weight, eight ounces; water, four pints. Mix together the sulphuric acid and water in a glass vessel, and add thereto the iron; then after the effervescence has ceased, filter the solution through paper, and evaporate it until crystals form as it cooks. paper, and evaporate it unit crystais form as a coost-Having poured away the water, dry these upon bibu-lous paper. This is an excellent preparation of iron, and is exhibited, in many diseases, as a styptic, tonic, astringent, and antilelimintic. Dose from one grain to five grains

[FERRILITE. Common trap of Kitwan. Amorphous basalt of Cleaveland. The Ferrilite, and perhaps the Mullen stone of Kirwan, may be referred to

this variety of basalt. A.]
FERRURETTED CHYAZIC ACID. See Ferroprussic acid. Fersæ. The measles

Ferse. The measles.
Fertile flower. See Flos.
Fertile flower. See Flos.
FerRULA. The name of a genus of plants in the Limman system. Class Pentundria; Order, Digymia.
Ferrula Africana Galbanifera. The galbanum plant. See Bubon galbanum.
Ferrula Assacettua. The systematic name of the assafeitida plant. Assafeatida. Hinguseh of the Persians. Although the Arabians. By some thought to be the alphanous the Arabians. By some thought to be the alphanous assafeitida—folius alternatim sinusthe assafeitida—folius alternatim sinusthe assafeitida of the shops, grows plentifully on the mountains in the provinces of Chorassan and Laar, in Persia.

The process of obtaining it is as follows: the earth is cleared away from the top of the roots of the oldest plants; the leaves and stalks are then twisted away, plants; the leaves and stalks are then twisted away, and made into a covering, to screen the root from the sun; in this state the root is left for forty days, when the covering is removed, and the top of the root cut off transversely; it is then screened again from the sun for forty-eight hours, when the juice it exudes is scraped off, and exposed to the sun to harden. A sescraped on, and exposed to the sun to harden. As a cond transverse section of the root is made, and the exudation suffered to continue for forty-eight hours, and then scraped off. In this manner it is eight times repeatedly collected in a period of six weeks. The juice thus obtained has a bitter, acrid, pungent taste, and is well known by its peculiar nauseous smell, the and is well known by its peculiar nauseous smell, the strength of which is the surest test of its goodness. This odour is extremely volatile, and of course the drug loses much of its efficacy by keeping. It is brought to us in large irregular masses, composed of various little shining lumps, or grains, which are partly of a whitish colour, partly reddish, and partly of a violet hue. Those masses are accounted the best which are clear, of a pale reddish colour, and variegated with a great number of elegant white tears. This concrete juice consists of two-thirds of gum, and one-third of resin and volatile oil, in which its taste and smell reside. It yields all its virtues to alkohol. Triturated with water, it forms a milk-like mixture, the resin being diffused by the medium of the gum. Distilled with water, it affords a small quantity of essential oil. It is the most powerful of all the fætid gums, and is a most valuable remedy. It is most commonly

plant is said to be detergent.

FERTLA-COA. See Bubon galbanum.
FEVER. See Febris.
FEVERFEW. See Matricaria.
FI'BER. (From fiber, extreme, because it resides in the extremities of lakes and rivers.) The beaver.

See Castor fiber.

in the extremities of lakes and rivers.) The beaver. See Castor. fiber.

FIBRE. Fibra. A very simple filament. It is owing to the difference in the nature and arrangements of the fibres that the structure of the several parts of animals and vegetables differ: hence the barks, woods, leaves, &c. of vegetables, and the cellular structure, membranes, muscles, vessels, nerves, and, in short, every part of the body, has its fibres variously constituted and arranged, so as to form these different parts. Fibralls. (Fibrita, diminutive of fibra.) A small thread-like fibre: applied to the little roots which are given off from radicles.

FIBRIN. "A peculiar organic compound found both in vegetables and animals. Vauquelin discovered it in the juice of the papaw-tree. It is a soft solid, of a greasy appearance, insoluble in water, which softens in the air, becoming viscid, brown, and semi-transparent. On hot coals it melts, throws out greasy drops, crackles, and evolves the smoke and odour of roasting meat. Fibrin is procured, however, in its most characteristic state from animal matter. It exists in chyle; it enters into the composition of blood; of it, the chief part of muscular flesh is formed; and hence it may be regarded as the most abundant constituent of the soft solids of animals.

To obtain it, we may heat blood as it issues from the continuent of the soft solids of animals. solids of animals

To obtain it, we may beat blood as it issues from the veins with a bundle of twigs. Fibrin soon attaches itself to each stem, under the form of long reddish filaitself to each etem, under the form of long reddish filaments, which become colourless by washing them with cold water. It is solid, white, insipid, without smell, denser than water, and incapable of affecting the hue of litmus or violets. When moist it possesses a species of elasticity; by desiccation it becomes yellowish, hard, and brittle. By distillation we can extract from it much carbonate of ammonia, some acetate, a feetid brown oil, and gaseous products; while there remains in the retort a very luminous charcal, very brilliant, difficult of inscineration, which lawses, after combuse. difficult of incineration, which leaves, after combus-tion, phosphate of lime, a little phosphate of magnesia, carbonate of lime, and carbonate of soda. Cold water has no action on fibrin. Treated with

carbonate of lime, and carbonate of sogs.

Cold water has no action on fibrin. Treated with
boiling water, it is so changed as to lose the property
of softening and dissolving in acetic acid. The liquor
filtered from it, yields precipitates with infusion of
galls, and the residue is white, dry, hard, and of an

agreeable taste

garseable taste.

When kept for some time in alkohol of 0.810, it gives rise to an adipocerous matter, having a strong and disagreeable odour. This matter remains dissolved in the alkohol, and may be precipitated by water. Ether makes it undergo a similar alteration, but more slowly. When digested in weak muriatic acid, it evolves a little azote, and a compound is formed, hard, horny, and which, washed repeatedly with water, is transformed into another gelatinous compound. This seems to be a neutral muriate, soluble in hot water; while the first is an acid muriate, insoluble even in boiling water. Sulphuric acid, diluted with six times its weight of water, has similar effects. When not too concentrated, mitric acid disagrees a very different action on fibrin. For example, when its sp. gr. is 1.25, there results from it tial oil. It is the most powerful of all the fettld gums, and is a most valuable remedy. It is most commonly employed in hysteria, hypochondriasis, some symptoms of dyspepsia, flatulent colles, and in most of those diseases termed nervous, but its chief use is derived from its antispasmodic effects; and it is thought to be the most powerful remedy we possess, for those peculiar convulsive and spasmodic affections, which often recur in the first of these diseases, both taken and the first of these diseases, both taken and in the first of these diseases, both taken and in the first of these diseases, both taken and in the first of these diseases, both taken and in the first of these diseases, both taken and in the first of these diseases, both taken and in the first of these diseases, both taken and the first of these diseases, both taken and the first of these diseases, both taken and the first of these diseases the first of the

bined with the malic and nitric or nitrous acids. In fact, if we put this mass on a filter, and wash it copifact, I we put this mass on a filter, and wash it opposely with water, it will part with a portion of its acid, will preserve the property of reddening litmus, and will take an orange hue. On treating it afterward with boiling alkohol, we dissolve the fatty matter; and putting the remainder in contact with chalk and water, an effervescence will be occasioned by the escape of carbonic acid, and malate or nitrate of lime will remain in solution.

Concentrated acetic acid renders fibrin soft at ordinary temperatures, and converts it by the aid of heat into a jelly, which is soluble in hot water, with the dis-engagement of a small quantity of azote. This solu-This solution is colourless, and possesses little taste. Evaporated to dryness, it leaves a transparent residue, which reddens litmus paper, and which cannot be dissolved even in boiling water, but by the medium of more even in bodding water, but by the medium of more acetic acid. Suphuric, nitric, and muriatic acids, precipitate the animal matter, and form acid combinations. Potassa, soda, animonia, effect likewise the precipitation of this matter, provided we do not use too great an excess of alkali; for then the precipitated matter would be redissolved. Aqueous potassa and soda gradually dissolve fibri in the cold, without occasioning any perceptible change in its nature; but with heat they decompose it, giving birth to a quantity of ammoniveal use, and other usual animal products. of ammoniacal gas, and other usual animal products. Fibrin does not putrefy speedily when kept in water. It shrinks on exposure to a considerable heat, and emits the smell of burning horn. It is composed, according to the analysis of Gay Lussac, and Thenard,

Carbon. 53 360 Azote. 19.934 Oxygen, 19.685 | 22.14 water. 7.021 | 4.56 hydrogen.

Hydrogen, 7.021 | 4.50 nydrogen, ROLITE. A crystallized mineral harder than FIBROLITE

quartz, of a white or gray colour, found in the Car-natic, and composed of alumina, silica, and iron. FIBROSUS. (From fibre, a fibre.) Fibrous. A term frequently used in anatomy to express the texture of parts. In botany, its meaning is the same, and is applied to roots and other parts, as those of grasses,

FIBULA. (Quasi figilula; from figo, to fasten: so named because it joins together the tibia and the muscles.) A long bone of the leg, situated on the outer side of the tibia, and which forms, at its lower end, the outer ankle. Its upper extremity is formed into an irregular head, on the inside of which is a slightly concave articulating surface, which, in the recent subjects, is covered with cartilage, and receives the circular flat surface under the edge of the external cavity of the tibla. This articulation is surrounded by a capsular ligament, which is farther strengthened by other strong ligamentous fibres, so as to allow only a small motion backwards and forwards.—Externally, the head of the backwards and forwards.—Externally, the head of the fibula is rough and protuberant, serving for the attach-ment of figaments, and for the insertion of the biceps cruris masele.—Immediately below it, on its inner side, is a tubercle, from which a part of the gastrocnemius internus has its origin. Immediately below this head the body of the bone begins. It is of a triangular shape, and appears as if it were slightly twisted at each end, in a different direction. It is likewise a little curved inwards and forwards. This curvature is in part owing to the action of muscles; and in part perhaps to the carelessness of nurses.—Of the three angles of the bone, that which is turned towards the tibia is the most prominent, and serves for the attachment of the interosseous ligament, which, in its structure and uses, resembles that of the forearm, and, like that, is a little interrupted above and below. The three surfaces of the bone are variously impressed by different muscles. The three surfaces of About the middle of the posterior surface is observed a passage for the medullary vessels, slanting downwards. The lower end of the fibula is formed into a spongy, oblong head, externally rough and convex, internally smooth and covered with a thin cartilage, where it is received by the external triangular depres-sion at the lower end of the tibia. This articulation, which resembles that of its upper extremity, is fur-nished with a capsular ligament, and farther strength-ened by ligamentous fibres, which are stronger and more considerable than those before described. They extend from the tibia to the fibula, in an oblique direc-

tion, and are more easily discernible before than betion, and are more easily discernible before than behind. Below this the fibula is lengthened out, so as to form a considerable process, called malleolus externus, or the outer ankle. It is smooth and covered with cartiage on the inside, where it is contiguous to the astragalus, or first bone of the foot. At the lower and inner part of this process, there is a spongy cavity, filled with fat; and a little beyond this, posteriorly, is a cartilaginous groove, for the tendons of the peroneus longus and peroneus brevis, which are here bound down by the linguageneous fibure, that are extended over down by the ligamentous fibres that are extended over

The principal uses of this bone seem to be, to afford origin and insertion to muscles, and to contribute to the articulation of the leg with the foot. FICA (RIA. (From ficus, a fig; so called from its likeness.) See Rananculus ficurus.

FICA'TIO. (From ficus, a fig.)

A tuberculous dis-

FIGATIO. (From ficus, a fig.) A tuberculous discase, near the anus and pudenda.
FICOIDE'A. Ficuides. Resembling a fig. A name of the house-leck. See Semperoicum tectorium.
FICUS. 1. A fieshy substance about the anus, in figure resembling a fig.
2. The name of a genus of plants in the Linnman system. Class, Polygamia; Order, Diecia. The fig-

FICUS CARICA. The systematic name of the fig-tree. Carica; Ficus; Ficus vulgaris; Ficus com-munis. Euxy of the Greeks. French figs are, when completely ripe, soft, succulent, and easily digested, unless eaten in immoderate quantities, when they are apt to occasion flatulency, pain of the bowels, and diarrhœa. The dried fruit, which is sold in our shops, is pleasanter to the taste, and more wholesome and is presenter to the task, and more wisnessome and nutritive. They are directed in the decoctum horder compositum, and in the confectio sennæ. Applied externally, they promote the suppuration of tunnours; hence they have a place in maturating cataplasms; and are very convenient to apply to the gums, and, when belief with with the to the three. when boiled with milk, to the throat.

Ficus indica. See Lacca.

Fiddle-shaped. See Leaf.

FIDICINA LES. (Fidicinalis, sc. musculus.)

Lumbricales.

FIENUS, Thomas, was son of a physician of Antwerp, and born in 1567. After studying at Leyden and Bologna, he was invited, at the age of 26, to be one of the medical professors at Louvaine, where he took his degrees. With the exception of one year, during which he attended the Duke of Bavaria, he remained in that office till his death in 1631. Besides his great abilities in medicine and surgery, he was distinguished for his knowledge of natural history, the learned languages, and the mathematics. He has left several works: the chief of which is termed "Libri Chirurgici XII.," treating of the principal operations; it passed through many editions. His father, John, was author of a well-received treatise, "De Flatibus."

FIG. See Ficus carica.

FIGURESTONE. Bildstein. Agalmatolite. A massive miseral of a gray colour, or brown flesh-red, and sometimes spotted, or with blue veins; unctuous to the touch, and yielding to the nail. It comes from China, cut into grotesque figures. It differs from steatite in wanting the magnesia. It is also found in Transylvania, and in Wales.

FIGWORT. See Ranuculus ficaria.

FILA'GO. (From filum, a thread, and ago, to produce or have to do with, in allusion to the cottony web connected with every part of the plant.) Cud or cotton-weed; formerly used as an astringent.

FILA'MENT. (Filamentum; from filum, a thread.) I. A term applied in anatomy to a small thread-like portion adhering to any part, and frequently synonymous with fibre. See Fibre.

2. The stamen of a flower consists of the filament, anther, and pollen. The filament is the column which supports the anther. FIG. See Ficus carica FIGURESTONE. Bi

supports the anther.

From its figure it is called,

1. Capillary; as in Plantago.

2. Filiform; as in Seilla maritima,

3. Flat; as in Allium cepa.

Dilatate, spreading laterally; as in Ornithogalum

umbellatu 5. Pedicellate, affixed transversely to a little stalk:

e. Bifid, having two; as in Stemedia.

7. Bifurced; as in Prunella.

7. Bifurcca; as in Transia.

8. Multifal; as in Carolina princeps.

9. Dentate; as in Rosmarenus officinalis.

10. Necked; as in Minm cepa.

11. Lanceolate; as in Ornithogalum pyrenaicum.

12. Castrate, the 8 ther naturally wanting; as in Gratiola officinalis.

Gratiola officinalis.

13. Subulate; as in Tulipa gesneriani.

From the pubescence,

1. Barbate, bearded; as in Lycium.

2. Lanate, woolly; as in Verbaseum thapsus.

3. Pelose; as in Intherican fratescens.

4. Gland-bearing; as in Laurus and Itheum.

From its direction,

1. Erect; as in Tulipa gesneriana.

2. Incurved; curved invard, and a little bent.

3. Declinate; as in Homerocales fubra.

4. Convicent; as in Physales alkekengi.

From its concretion,

1. Liberate, free, nowhere adhering; as in.

1. Liberate, free, nowhere adhering; as in Nicotiana tabacum.

2. Connate, adhering at their base; as in Malva sylvestris, and Alcea rosea.

From its insertion,

1. Receptaculine, inserted into the receptaculum; as in Papaver sommeterum.
2. Corolline, as in Verbascum thapsus, and Nerium

olcander 3. Calicine; as in Pyrus malus, and Mespilus ger-

4. Styline; as in the Orchides.5. Nectorine; as in Pancratium declinatum

From its length, it is said to be very long; as in Plantago major: very short in Jasminum and Vinca. and unequal, some long, some short; as in Cheiranthus

FILARIA. The name of a genus of intestina!

FILE'LLUM. (From filum, a thread; because it resembles a string.) The fræmum of the penis and

File Tum. (From filum, a thread; named from its string-like appearance.) The frænum of the tongue

and penis. FILICES. FILICES. (Filiz, cis. f.; from filum, a thread.) Ferns. One of the families, or natural tribe into which the whole vegetable kingdom is divided. They are defined plants which bear their flower and fruit on the

back of the leaf or stalk, which is termed froms.

FILICULA. (Dim. of filix, fern; a small sort of fern: or from filum, a thread, which it resembles.)

Common maiden-hair. See Adienthum capillus ve-

FILIFORMIS. Filiform, thread-like: applied to many parts of animals and vegetables from their re-semblance.

FILIPE'NDULA. (From filum, a thread, and pendoo, to hang; so named because the numerous bulbs of its roots hang, as it were, by small threads.) See Spiræa filipendula.

FILIPENDULA AQUATICA. Enanthe fistulosa of Linnaus. Water-dropwort; the

Figure ANTE Pathem. Any plant, the flower of which comes out before the leaf; as colisiont. Ff'LIX. (From filum, a thread; so called from its being cut, as it were, in slender portions, like threads.) See Polypodium

Fem. See Polypadium.

FILIX ACULEATA. See Polypadium aculeatum.

FILIX FEDRIDA. See Osmanda regalis.

FILIX FEDRIDA. See Osmanda regalis.

FILIX PEDRIDA. See Petris aquilina.

FILIX MAS. See Polypadium filex mas.

FILIX FILIX FEMINA. See Plevis aquilina.

FILIX ACULEATA SEE Polypadium filex mas.

FILIX ACULEATA SEE Polypadium filex mas.

FILIX ACULEATA SEE POLYPADIUM.

An apparatus fitted up for this purpose is called a filter. The form of this is various, according to the intention of the operator. A piece of tow, or wool, or cotton, stuffed into the pipe of a funnel, will prevent the passage of grosser particles, and by that means render the fluid clearer which comes through. Sponge is still more effectual. A strip of linea rag wetted and

may either be fastened over the mouths of proper ver sels, or fixed to a frame, like a sieve, for the purpose of filtering. All these are more commonly used by cooks and apothecaries than by philosophical chemists, who, for the most part, use the paper called cap paper, made

up without size.

As the filtration of considerable quantities of fluid could not be effected at once without breaking the filter of paper, it is found requisite to use a linen cloth, upon which the paper is applied and supported.

Precipitates and other pulverulent matters are collected more speedily by filtration than by subsidence. But there are many chemists who disclaim the use of this method, and avail themselves of the latter only, which is extensive more accurate and liable to no object. which is certainly more accurate, and liable to no ob jection, where the powders are such as will admit of edulcoration and drying in the open air.

eduleoration and drying in the open air.

Some fluids, as turbid water, may be purified by filtering through sand. A large earthen funnel, or stone bottle with the bottom beaten out, may have its neck loosely stopped with small stones, over which smaller may be placed, supporting layers of gravel increasing in fineness, and lastly covered to the depth of a few inches with fine sand all thoroughly cleansed by washing. This apparatus is superior to a filtering stone, as it will cleanse water in large quantities and by washing. This apparatus is superior to a intering stone, as it will cleanse water in large quantities, and may readily be renewed when the passage is ob-structed, by taking out and washing the upper stratum

A finer for corrosive liquors may be constructed, on the same principles, of broken and pounded glass.—

8 Chem. Dict.

FI'LTRUM. A filter, straining or filtering instru-

FILUM. A thread or filament.

FILUM ARSENICALE. Corrosive sublimate.

FI MBRIA. (A fringe, quasi finibria; from finis, the extremity.) A fringe. 1. A term used by anatomists to curled membraneous productions. See Fin-

2. In botany, it is applied to the dentate or fringe-like ring of the operculum of mosses, by the elastic power of which the operculum is displaced. See Peristomium FIMBRIÆ.

(Fimbria, a fringe. Quasi finibria; extremity.) The extremities of the FINBRIES. (Frimoria, a Finge. Qui from finis, the extremity.) The extrer Fallopian tubes. See Uterus. FINCKLE. See Anethum faniculum. Fingered leaf. See Leaf. FIORITE. See Pearl sinter.

FIR. See Pinus.

FIR. See Pinus.

Fir balsam. See Pinus balsamea.

Fir, Canada. See Pinus balsamea.

Fir, Norway spruce. See Pinus abies.

Fir, Scotch. See Pinus splusstris.

Fir, silver. See Pinus splusstris.

Fir, silver. See Pinus splusstris.

the principal agent in nature to balance the power and natural effect of attraction. The most useful acceptation of the word fire comprehends heat and light. tion of the word fire comprehends heat and light. There have been several theories proposed respecting fire, but no one as yet is fully established. See Caloric

and Light.

[FFIRTH, Dr. S. of Salem, in New-Jersey, published a dissertation on malignant fever in 1805, with an attempt to prove that yellow fever is not contaan attempt to prove that yenow lever is not conse-gious. The experiments he tried with the matter of black-vomit are bold and decisive. He proves by his experiments, that neither the black-vomit, serum, nor saliva of persons labouring under yellow fever, are capable of communicating that disease. He dropped the matter of black-vomit in his eye, inoculated himself with, and even swellowed it. For the particulars of

It mixed with it. It does not differ from straining.

An apparatus fitted up for this purpose is called a filter. The form of this is various, according to the intention of the operator. A piece of tow, or wool, or cotton, stuffed into the pipe of a funnel, will prevent the passage of grosser particles, and by that means render the fluid clearer which comes through. Sponge is still more effectual. A strip of linear pag wetted and hung over the side of a vessel containing a fluid, in such a manner as that one end of the rag way be imersed in the fluid, and the other end may remain without, below the surface, will act as a syphson, and carry over the clearer portion. Linear or woollen suffice.

(FISHERY, SEAL. Vessels belonging to the United States, employed in voyages for catching seals, usually pass round Cape-Horn, and visit the islands of Juan Fernandez and Massafuero. At the latter of these, seals were formerly very numerous. They are also taken at Falkhand's Islands, Southern Georgia, Tristan d'Acunha, St. Paul's, and Amsterdam islands. But of late years they have been found to be much more rare. Even at Massafuero, and the islands in its vicinity, they are no longer found in that abundance which prevailed when these voyages were first undertaken. vailed when these voyages were first undertaken.

The sea-elephant belongs to the same family with

The sea-elephant belongs to the same family with the seal. He is found on many of the uninhabited islands of the great southern ocean, particularly at Kerguelan's Land, which they frequent in great herds. They make little resistance, and of course are easily killed. Several of our vessels are said to have been engaged in their destruction. Their oil is found to be of an excellent quality; and not only answers for home consumption, but makes a valuable article of

exportation. A.]

"FISHERY, WHALE. This branch of business seems be less inviting and profitable than it formerly was. Whether this is owing to a scarcity of whales, to greater exertions of other nations, or to the inferiority greater exertions of other nations, or to the inferiority of the market at home, and high duties abroad, we need not examine particularly here. The decline of the whale-fishery among the people of the United States, is probably to be ascribed to the operation of all these causes, as well as to bounties and immunities granted by some of the European powers so generously as to tempt many of our most enterprising whalemen to engage themselves and their capitals in foreign service."—Med. Repos. -Med. Repos.

vice."—Med. Repos.

These observations were made in 1805, since which there has been a great increase in the amount of capital, number of ships, and seamen engaged in the whale fishery from the United States. The greatest number of ships in this business are fitted out at New-Bediord in Massachusetts, the island of Nantucket, and Sag-Harbour, on the east end of Long-Island, of the state of New-York. Some few are fitted out from this city, and some from ports in Connecticut. Few or none of our vessels pursue this business in the Arctic seas. Some take the right whale on the coast of Brazil, but most of those engaged in this employment from the

Some take the right whale on the coast of Brazil, but most of those engaged in this employment from the United States resort to the Pacific ocean, where they take both the spermaceti and the right whale.

Vessels are fitted out on shares; the owners, master, and seamen, dividing the proceeds of the voyage according to a certain ratio agreed upon before the voyage commences, and which generally lasts about two years. The success depends upon the skill and enterprise of the officers and crew, which generally consists of hardy and active young men. The greater their success the greater their share of the profits. The spermaceti-whale is the great object of their search in the Pacific, as from this animal is derived the pharmacopical substance called sperma ceti. Ambergris is also occasionally found in the intestines the pharmacopœial substance called sperma ceti. Ambergris is also occasionally found in the intestines

Ambergris is and of this whale. A.] "This employment appears to be [FISHERY, COD. "This employment appears to be on the increase. Notwithstanding the abundance of on the increase. Notwithstanding the abundance of business which might be followed on shore, in a country having so many millions of unappropriated acres, there are found plenty of people who prefer the catching of fish along the coasts of the United States, and on the Banks of Newfoundland: Government allows a bounty on the tonnage of the vessels engaged in the codfestory in light of a drawback upon the salt used in

The cod taken along our shores and on the Banks of Newfoundiand is the Gadus morhua, though some of Newfoundiand is the traaus mornua, though some of the other species are also taken. On the rocky shores of Maine, the hake (Gadus merluccius) is abundantly taken. The fish is not so good as the Gadus mornua, but it has a very large sound from which icthyocolla, or fish glue, of a good quality, may be prepared in any quantity. A.]

be prepared in any quantity. A.]
Fish-suur. See Ichthycolla.
FISSURA. A fissure. 1. That species of fracture in which the bone is slit, but not completely di-

. A name given to a deep and long depression in a

FISSURA MAGNA SYLVII. The anterior and middle lobes of the cerebrum on each side are parted by a

deep narrow sulcus, which ascends obliquely backwards from the temporal ala of the os sphenoides, to near the middle of the os parietale, and this sulcus is

thus called.

FISSUS: Cleft, cloven. Applied to leaves, and pods, folia fissa, that are, as it were, cut into fissures or straight segments. See Leaf.

FISTUC.NUT. See Pistachia vera.

FISTULA. (Quasi fissula: from fundo, to pour out; or from its similarity to a pipe, or reed.) Eligit morbus. A term in surgery, applied to a long and sinuous ulcer that has a narrow opening, and which sometimes leads to a larger cavity, and has no disposit sometimes leads to a larger cavity, and has no disposi-

FISTULA'RIA. (From fistula, a pipe, so called because its stock is hollow.) Stavesacre. See Del-

phissium staphissagria:

FIXED. In chemistry, the term fixed bodies is applied to those substances which cannot be caused to pass by a strong rarefaction from the solid or liquid state of an elastic fluid.

Fixed air. See Carbonic acid.

FIXITY. The property by which bodies resist the

FIXITY. The property by which bodies resist the action of heat, so as not to rise in vapour. FLAG. See Acorus and Iris. [FLAGO, Dr. John, was son of the Rev. Ebenezer Flagg, the first minister of Chester, in New-Hampshire. He was graduated at Harvard University in 1761, and studied medicine under the direction of Dr. Osgood, of Andover. He commenced practice at Wo-burn, but in 1769 removed to Lynn, where he enjoyed the full confidence of his fellow-citizens, and acquired

a high standing in his profession.

When, in 1775, the dark cloud overspread our political hemisphere, Dr. Flagg was prepared to unite in the strong measures of resistance against every encroachment upon the rights and freedom of his country. He was an active and useful member of the committee of safety, and contributed largely to the promotion of the safety, and contributed largely to the promotion of the military preparations to meet the exigencies which soon after happened. From a native modesty, he declined any appointment in the councils of the state, but was prevailed upon to accept the commission of lieutenant-colonel of militia, under the venerable Col. Timothy Pickering, which, however, he soon after resigned, that he might devote his whole attention to the practice of medicine, which he preferred to military nursits. tary pursuits.

He was elected a member of the Massachusetts

Medical Society immediately after its incorporation, Medical Society immediately after its incorporation, when the number of fellows was restricted to seventy in the whole commonwealth. He held a commission of justice of the peace before the revolution and after the adoption of our state constitution, till his death. The fatigues of an extensive circle of practice, and the exposures incident to a professional life, impaired his constitution, and he fell a victim to pulmonary consumption in 1793, in the 50th year of his age. A.]

consumption in 1933, in the 30th year of his age. A.]
FLAGELLIFORMIS. Whip-like. A term applied to a stem that is long and pliant, whip-like; as
that of jasmine and blue boxthorn. See Caulis.
Flake-white. Oxide of bismuth.
FLA' MMULA. (Dim. of flamma, a fire: named
from the burning pungency of its taste.) See Ranun-

culus flammula.

FLATULENT. Windy. See Clematis recta.

FLAX. See Linum.

FLAX. See Linum.
Flaz-leaved daphne. See Daphne gnidium.
Flaz, purging. See Linum catharticum.
Flaz, spurge. See Daphne gnidium.
FLEA-WORT. See Plantago psyllium.
FLE'MEN. (From fiecto, to incline downwards.)
Fleme. A tumour about the ankles.
FLERE'SIN. Gout.
FLEESH. 1. The muscles of animals.
2. A vulgar term for all the soft parts of an animal.

2. A vulgar term for all the soft parts of an animal. 3. It is also applied to leaves, fruit, &c. which have the appearance or consistence of flesh. FLEXOR. The name of several muscles, the of-fice of which is to bend parts into which they are in-

serted.

FLEXOR ACCESSORIUS DIGITORUM PEDIS. Ste Flexor longus digitorum pedis. Flexor BREVIS DIGITORUM PEDIS, PERFORATUS, SUBLIMIS. A flexor muscle of the toes, situated on the foot. Flexor brevis digitorum pedis, perforatus of

Albinus. Flezor brevis of Douglas. Flezor digitorum internal and annular ligaments, is inserted into the of brevis, sive perforatus pedis of Winslow. Perforatus, pisiforme. Flexor secundi internali digitorum pedis of Cowsea flexor accundi internodii digitorum pedis of Cowper; and Calcano sus-phalangettien comman of Dumas. It arises by a narrow, tendinous, and fleshy beginning, from the Inferior protuberance of the os calcis. It likewise derives many of its fleshy fibres from
the adjacent aponeurosis, and soon forms a thick belly,
which divides into four portions. Each of these portions terminates in a flat tendon, the fibres of which
decussate, to afford a passage to a tendon of the long
flexor, and afterward reuniting, are inserted into the
second phalanx of each of the four less toes. This
muscle serves to bend the second joint of the toes.
FLEXOR EREVIS MININI DIGITI FEDIS. Parathenar

muscle serves to bend the second joint of the foes.

Flexor Brevis Minim digiti Prdis. Parathenar

minar of Winslow. This little muscle is situated
along the interior surface and outer edge of the metatarsal bone of the little toe. It arises tendinous from
the basis of that bone, and from the ligaments that
connect it to the os cuboides. It soon becomes fleshy,
and adheres almost the whole length of the metatarsal bone, at the anterior extremity of which it forms a small tendon, that is inserted into the root of the first joint of the little toe. Its use is to bend the little

first joint of the flue toe. As use to to the concent.

FLEXOR BREVIS POLLICIS MANUS. Flexor secundi internodii of Douglas. Thenar of Winslow. Flexor primi et secundi ossis pollicio of Cowper; and Carpophalangien du pouce of Dumas. This muscle is divided into two portions by the tendon of the flexor longus pollicis. The outermost portion arises tendinous from the anterior part of the os trapezoides and internal annular ligament. The second, or innernost, and thickest portion, arises from the same bone, and likewise from the os magnum, and os cuneiforme. Both these portions are inserted tendinous into these sesamoid bones of the thumb. The use of this muscle is to bend the second joint of the thumb.

Flexor Brevis Pollicis Federa. A muscle of the great toe, that bends the first joint of that part. Flexor brevis of Douglas. Flexor brevis pollicis of Cowper; and Tarsophalangien du pouce of Dumas. It is situated upon the metatarsal bone of the great toe, arises tendinous from the under and anterior part of the os calcis, and from the under part of the os cunciforme.

tendinous from the under and anterior part of the os calcies, and from the under part of the os cuneiforme externum. It soon becomes fleshy and divisible into two portions, which do not separate from each other till they have reached the anterior extremity of the metatarsal bone of the great toe, where they become tendinous, and then the innermost portion unites with the tendon of the abductor, and the outermost with that of the abductor pollicis. They adhere to the external

of the abductor pollicis. They adhere to the external os sesamoideum, and are finally inserted into the root of the first joint of the great toe. These two portions, by their separation, form a groove, in which passes the tendon of the flexor longus pollicis.

FLEXOR CARPI RADIALIS. A long thin muscle, situated obliquely at the inner and anterior part of the forearm, between the palmaris longus and the promator teres. Radialis internus of Albinus and Winslow; and Epitrochlo metacarpien of Dumas. It arises tendinous from the inner condyle of the os humeri, and, by many fleshy fibres, from the adjacent tendinous fascia. It descends along the inferior edge of the pronator teres, and terminates in a long, flat, and thin tendon, which afterward becomes narrower and thicker, and, after passing under the internal annular unn tendon, which afterward becomes narrower and thicker, and, after passing under the internal annular ligament, in a groove distinct from the other tendons of the wrist, it spreads wider again, and is inserted into the fore and upper part of the metacarpal bone that sustains the fore-finger. It serves to bend the hand, and its oblique direction may likewise enable it to assist in its pronation.

in its pronation.

FLEXOR CARP ULNARIS. Ulnaris internus of Winslow and Albinus. Epitrochli cubito carpien of Dumas. A muscle situated on the cubit or forearm, that assists in bending the arm. It arises tendinous from the inner condyle of the os humeri, and, by a small fleshy origin, from the anterior edge of the olecranon. Between these two portions, we find the ulnar nerve passing to the forearm. Some of its fibres arise likewise from the tendinous fascia that covers the muscles of the forearm. In its descent, it soon becomes tendinous, but its fleshy fibres do not entirely disappear till it has reached the lower extremity of the ulna, where its tendon spreads a little, and after sending off a few fibres to the external and

FLEXOR LONGUS DIGITORUM PEDIS PROFUNDUS
PERFORANS. A flexor muscle of the toes, situated
along the posterior part and inner side of the leg. Peralong the posterior part and inner side of the leg. Perforans seu flezor profundus of Douglas. Flezor digitorum longus, sive perforans pedia, and perforans seu flezor tertii internodii digitorum pedia of Cowper; and Tribio phalangetien of Dumas. It arises fleshy from the back part of the tibia, and, after running down to the internal ankle, its tendon passes under a kind of annular ligament, and then through a sinuosity at the inside of the os calcis. Soon after this it receives a great transport of the sinus of the control transport of the service of the service and the control transport of the service of the ser small tendon from the flexor longus policis pedis, and about the middle of the foot it divides into four tendons, which pass through the slits of the flexor brevis digitorum pedis, and are inserted into the upper part digitorum pedis, and are inserted into the upper part of the last bone of all the less toes. About the middle of the foot, this muscle unites with a fleshy portion, which, from the name of its first describer, has been usually called massa carnea Jacobi Sylvii: it is also termed Flezor accessorius àigitorum pedis. This appendage arises by a thin fleshy origin, from most part of the sinuosity of the os calcis, and likewise by a thin tendinous beginning from the anterior part of the external tubercle of that bone; it soon becomes all fleshy, and unites to the long flexor just before it divides into its four tendons. The use of this muscle is to bend the last joint of the toes. to bend the last joint of the toes

vides into its four tendons. The use of this music is to bend the last joint of the toes.

FIEXOR LONGUS POLLICIS MANUS. Flexor longus pollicis of Albinus. Flexor tertii internodii of Douglas; Flexor tertii internodii sive longissimus pollicis of Cowper; and radio-phalangetien du pouce of Dumas. A muscle of the thumb placed at the side of the flexor longus digitorum, profundus, perforans, and covered by the extensores carpi radiales. It arises fleshy from the anterior surface of the radius, immediately below the insertion of the biceps, and is continued down along the oblique ridge, which serves for the insertion of the supinator brevis, as far as the pronator quadratus. Some of its fibres spring likewise from the neighbouring edge of the interosseous ligament. Its tendon passes under the internal annular ligament of the first bone of the thumb, between the two portions of the flexor brevis politicis, goes to be inserted into the last joint of the thumb, being bound down in its way by the ligamentous expansion that is spread over the second bone. In some subjects we find a tendinous by the against out expansion that is spread over the second bone. In some subjects we find a tendinous portion arising from the inner condyle of the os humeri, and forming a fleshy slip that commonly terminates near the upper part of the origin of this muscle from the radius. The use of this muscle is to bend the

last joint of the thumb.

last joint of the thumb.

FLEXOR LONGUS POLLICIS PEDIS. A muscle of the great toe, situated along the posterior part of the leg. It arises tendinous and fleshy a little below the head of the fibula, and its fibres continue to adhere to that bone almost to its extremity. A little above the heel it terminates in a round tendon, which, after passing in a groove formed at the posterior edge of the astragalus, and internal and lateral part of the os calcis, in which it is secured by an annular igament, goes to be inserted into the last bone of the great toe, which it serves to bend.

serves to bend.

FLEXOR OSSIS METACARPI FOLLICIS. Opponens
Pollicis of Innes. Opponent pollicis manus of Albinus. Flexor primi internodi of Douglas. Antithenar
sive semi-interoseus pollicis of Winslow; and Carpephalangien du pouce of Dumas. A muscle of the
thumb, situated under the abductor brevis politicis,
which it resembles in its shape. It arises tendinous
and fleshy from the os ecaphoides, and from the anterior and inner part of the internal annular ligament.
It is inserted tendinous and fleshy into the under and
anterior part of the first bone of the thumb. It serves
to turn the first bone of the thumb upon its axis, and
at the same time to bring it inwards opposite to the
other fingers. serves to bend. other fingers.

other fingers.

FLEXOR PARVUS MINIMI DIGITI. Abductor minimi digiti, Hypothenar Riolani of Douglas. Hypothenar minimi digiti of Winslow; and second carpo-phalangien du petit doigt of Dumas. A muscle of the little finger, situated along the inner surface of the metacarpal bone of the little finger. It arises tendinous and fleshy from the hook-like process of the unciform bone, and likewise from the anterior surface of the adjacent

part of the annular ligament. It terminates in a flat tendon, which is connected with that of the abductor minimi digiti, and inserted into the inner and anterior part of the upper end of the first bone of the little finger. It serves to bend the little finger, and likewise to assist the adductor. to assist the abductor.

to assist the abductor.

FLEXOR PROFUNDUS PERFORANS. Profundus, of Albinus. Perforans, of Douglas. Perforans vulgo profundus, of Winslow; Flexor tertis internodii digiterum manus, vel perforatus manus, of Cowper; and Cubito phalangetien commun, of Dumas. A muscle of the fingers situated on the forearm, immediately under the perforatus, which it greatly resembles in its shape. It arises fleshy from the external side, and upper part of the ulna, for some way downwards, and from a large portion of the interrosseous ligament. It anilis into four tendous a hittle before a passon subject. splits into four tendons a little before it passes under the annular ligament of the wrist, and these pass through the siti in the tendons of the flexor sublimis, to be inserted into the fore and upper part of the third or last bone of all the fore-fingers, the joint of which

of last bone of all the loteringers, the joint of which they bend.

FLEXOR SUBLIMIS PERFORATUS. This muscle, which is the perforatus of Cowper, Douglas, and Winslow, is, by Albinus and others, named sublimis. It has gotten the name of perforatus, from its tendons being perforated by those of another flexor muscle of being perforated by those of another flexor muscle of the finger, called the perforans. They who give it the appellation of sublimis, consider its situation with respect to the latter, and which, instead of perforans, they name profundus. It is a long muscle, situated most commonly at the anterior and inner part of the forearm, between the palmaris longus and the flexor carpi ulnaris; but, in some subjects, we find it placed under the former of these muscles, between the flexor carpi ulnaris and the flexor carpi radialis. It arises, tendinous and fleshy, from the inner condyle of the os humeri, from the inner edge of the coronoid process of the ulna, and from the upper and forepart of the radius. the ulna, and from the upper and forepart of the radius, the una, and from the upper and torepart of the radius, down to near the insertion of the pronator teres. A little below the middle of the forearm, its fleshy belly divides into four portions, which degenerate into as many round tendons, that pass all together under the internal annular ligament of the wrist, after which they separate from each other, become thinner and flatter, and running along the palm of the hand, under flatier, and running along the palm of the hand, under the aponeurosis palmaris, are inserted into the upper part of the second bone of each finger. Previous to this insertion, however, the fibres of each tendon decussate near the extremity of the first bone, so as to afford a passage to a tendon of the perforans. Of these four tendons, that of the middle finger is the largest, that of the foreinger the next in size, and that of the little finger the smallest. The use of this muscle is to bend the second joint of the fingers.

FIEXOR TREATH INTERNODII. See Flezor longus relicis many.

FLEXUOSUS. Flexuous; full of turnings or windings. A stem is so named which is zigzag, forming angles alternately from right to left, and from left

FLINT. A hard stone, found in beds of chalk, and in primitive, transition, secondary, and alluvial mountains. Its constituents are silica, lime, alumina, and oxide of iron.

FLINTY SLATE. Basanite. A mineral, of which

there are two kinds.

1. Common Kints slate, of an ash-gray colour, with other colours, in flamed, striped, and spotted delineations. It is found in different parts of the great tract of clay-slate and gray-wacke which extends from St. Abb's head to Portpatrick.

2. Lydian stone, of a grayish-black and velvet-black 2. Lydian stone, of a grayish-niack and verver-nack colour. It is found frequently along with common finity slate, in beds of clay-slate. It occurs in Bohemia and the Pentiand hills, near Edinburgh. It is sometimes used as a touchstone for ascertaining the purity of gold and silver.

FLOATSTONE. The spongiform quartz of

FLOCCILATION. (Floccilatio; from floccus, the map of clothes.) Picking the bedclothes. A symptom of great danger in acute diseases.

FLORAL. (Floratis; from flos, a flower.) Belonging to a flower; as floral leaf. See Bractea. (FLORA OF NOETH AMERICA. Before the revolutionary struggle began in France, Louis 16th had

patronized a botanical inquiry into the vegetable productions of North America. In the sixth volume of our Medical Repository, we gave an account of the establishments formed for that purpose, and of the history of the oaks of North America, published by Mr. Michaux, the botanist employed by that monarch. Since that work on the Quercus family was published, the great performance of Mr. Michaux on the vegetables of that extensive country generally has made its bles of that extensive country generally, has made its

appearance."
"The industrious author of this work had spent six years in Persia before his mission to America. He afterward passed twelve years in exploring the regions between Hudson's Bay and Carolina. In the course between Hudson's Bay and Carolina. In the course of the numerous excursions he made during that time through the diversified states, provinces, and territories, he collected the materials of this new and more complete synopsis of North American plants. This, he hopes, will be found to be the case, notwithstanding the prior descriptions of the plants of Canada by Cornuti; of Virginia by Clayton, aided by Gronovius; of Carolina by Cataesby, with plates, as well as by Walther and Bartram; and of the more northern parts, by Marshall and Forster.

"This work is published by the author's son, the father having left it in his bands rather unfinished, when he set off on his voyage of discovery to the islands lying in the Great South Sea. We mention with concern the death of this indefatigable naturalist.

with concern the death of this indefatigable naturalist He fell a victim to the zeal with which he urged his physical inquiries on the coast of Mada-

gascat:

"The author follows the Linnæan or sexual system. In addition to the vegetables, which are indigenous in America, he has also noted the European plants growing there. The generic characters are chiefly taken from Murray's last edition of the system of vegetables. Mr. Michaux seems to have confirmed as many of the Linnaran species as he could; though, for the sake of perspicuity, he has described some of them over again. It is affirmed that the work contains them over again. It is affirmed that the work contains no species that have not either been seen or gathered by Michaux himself. This must give to this Flora great value, and render it peculiarly interesting to the lovers of botany in the United States. Genuine descriptions recently made of the plants of the country by an actual observer, possessing remarkable skill and discernment in the practical as well as the theoretical parts of the science, cannot fail to increase the facility of its acquirement among our studious youth. To them, in particular, it will shorten the way to knowledge, and at the same time, render it much more easy and delightful.

ightful.

"Patticular labour has been bestowed upon the Cyperaces and Gramines; and all the Cryptogamia have been sedulously attended to, except the fungi. As respects the Filices, he adopts the arrangement of J. E. Smith; on the Musci, the system of Hedwig; and he follows the method of Acharius on the Lichens. Care has been taken that the genera of the same order should be assembled under the banner of affinities, and through intersections as far as the laws of the system thrown into sections as far as the laws of the system would permit; so that they may be found by the inquirer and student with the greater readiness and

"We consider this Flora boreali Americana as a most desirable addition to the natural history of our country. With this work in his hand, the botanist will be enabled to pursue his studies on the vegetables will be enabled to pursue his studies on the vegetables of Fredon (U. S.) and the adjoining regions, with additional ease and success. Though we cannot dismiss it from our notice, without expressing our regret that the author had not enriched his book with some of the synonyms from other writers, with some of the popular and trivial names, and with some little sketch of the dietetic, medicinal, and economical uses of the more distinguished species."—Med. Repos. vol. 8. A.] FLORES BENZOES. See Benzoic acid.
FLORES MARTIALES. See Ferrum ammoniatum.
FLORES SALIS AMMONIACI. See Ammoniae sub-

carbonas.

FLORES SULPHURIS. See Sulphur.

FLORES SULPHURIS LOTI. See Sulphur lotum.

FLORESCENTIA. (From floresce, to flourish or bloom.) The act of flowering, which Linneus compares to the act of generation in animals.

FLORET. A hule flower.

FLOS. (Flos, ris. f.; a flower.) 1. A flower. That part of a plant, for the most part beautifully coloured, and protecting the internal organs.

Every flower has parts, which are

Essential, constituting properly the flower; as the pistil, stamen, and receptacle.

2. Less essential, without which the flower is in some instances formed; as the calyx, corolla, and pedunculus.

. Accidental, noticed in a few only; as the bractea and nectarium

A flower is said to be

Complete, when furnished with calvx and corolla: as Nicotiana tabacum

as Newcana taoacum.

2. Incomplete, when the calyx or corolla is wanting.

3. Naked, devoid of the calyx; as in Lilium candidam, and Tulipa gesneriana.

4. Apetaloid, without the corolla; as in Galena Africana, and Saururus cernuus.

When the stamens and pistils are both, as usual, in one flower, that flower is called perfect, or united; when they are situated in different flowers of the same species, they are called separated flowers; that which has the stamens being named the barren flower, as producing no fruit in itself, and that with the pistils the fertile one, as bearing the seed.

The flower contains the internal or genital parts of

The stamen or male genital organ 1. The stamen of male general organ.

2. The pistillum or female genital organ.

From their diversity, flowers are called,

1. Male, which have the stamina only.

2. Female, in which are the pistils only.

Hermaphrodite, which contain both stamens and pistils

4. Neuter, naturally deficient of stamens and pistils; as the marginal flowers of the Centaurea cyanus, and

5. Castrate, when the anthers or the pistils are naturally wanting. The pistils, for example, are wanting in the Calendula officinalis, and in the Viola mirabilis, there are no anthers. Abortive, the fecundated germens of which wither

before the maturity of the fruit; as happens to the florets in the radius of the Helianthus annuus.

7. Monstrous, when the internal organs become petals, as is the case with full or double flowers. Besides these distinctions, Linnæus's favourite divi-

sion is into, 1. Aggregate.

Compound.

Amentaceous

4. Glumose, or chaffy, peculiar to the grasses.
5. The sheathed flower, the common receptacle of which springs from a sheath; as in Arum.

6. The Umbellate.

See also Inflorescence The Cumuse.

A term used by former chemists to whatever had a flower-like appearance, especially if obtained by sub-limation, as flowers of sulphur, benjamin, zinc, &c.

FLOS FERRI. A radiated variety of carbonate of

FLOSCULUS. A little flower. A term applied in botany to the small and numerous florets of a compound flower, which are all sessile on a common undi vided receptacle, and enclosed in one contiguous calyx, or perianth FLOUR. T FLOWER.

The powder of the gramineous seeds.

See Flos.

See Iris germanica.

FLOWER. See Pros. See Iris german FLOWER-DE-LUCE. See Iris german. See Benzote acid.

FLOWER-DE-LIUCE. See Pris germanica.
Flowers of benjamin. See Bensone acid.
FLOYER, Sire John, was born at Hinters, in Staffordshire, about the year 1649, and graduated at Oxford. He then settled at Litchfield, where his attention and skill procured him extensive reputation, insomuch that he was honoured with knighthood, as a reward for his talents. He strongly advocated the use reward for his talents. He strongly advocated the wood of cold bathing, particularly in chronic rheumatism, and nervous disorders: and he ascribed the increasing prevalence of consumption to the discontinuance of the practice of baptizing children by immersion. He published several works on this and other subjects; particularly an excellent treatise on the asthma, under which he himself laboured from the time of pure which he thimself laboured from the time of pure which he himself laboured from the same of the same berty, notwithstanding which he lived to be an old man. He is said to have been one of the first who reckoned the number of pulsations by a time-piece.

FLUATE. Fluas. A compound of the fluoric acid with satisfable bases: thus, fluate of lime, &c. FLUCTUA'TION. Fluctuatio. A term used by surgeons, to express the undulation of a fluid; thus when pus is formed in an abscess, or when water accumulates in the abdomen, if the abscess or abdomen be lightly pressed with the fingers, the motion of fluc-

tuation may be distinctly felt.

FLUELLIN. See Antirrhinum elatine.

FLUID. Fluidus. A fluid is that, the FLUID. Fluidus. A fluid is that the particles of which so little attract each other, that when poured out, it drops guttatim, and adapts itself in every respect to the form of the vessel containing it.

respect to the form of the vessel containing it.
The fluids of animal bodies, and particularly those
of the human body, are something very considerable
in proportion to the solids; the ratio in the adult being
as nine to one. Chaussier put a dead rody of 120
pounds into an oven, and found it, after many days'
successive desiccation, reduced to 12 pounds. Bodies
found, after being buried for a long time in the burning sands of the Arabian deserts, present an extraordinary diminution of weight.

The animal fluids are sometimes contained in vessels, wherein they move with more or less rapidity; sometimes in little arcolæ or spaces, where they seem to be kept in reserve; and at other times they are placed in the great cavities where they make only a temporary stay of longer or shorter duration.

The fluids of the human body are,

The blood. The lymph.

3. The perspiratory or perspirable fluids, which comprise the liquids of cutaneous transpiration: the transpiration or exhalation of mucous membranes, as also of the synovial, serous, and cellular; of the adipose cells, the medullary membranes, the thyroid and thymus glands, &c

thymus glands, &c.

4. The follicular fluid; the sebaceous secretion of the skin, the cerumen, the ropy matter from the eyelids, the mucus from the glands and follicles of that name from the tonsils, the cardiac glands, the prostate, the vicinity of the anus, and some other parts.

5. The glandular fluids; the tears, the saliva, the pancreatic fluid, the bile, the urine, the secretion from Cowper's glands, the semen, the milk, the liquid contained in the supra-renal capsules, that of the testicles, and of the mammæ of new-born infants.

The chyme and the chyle

The properties of fluids, both chemical and physical, c exceedingly various. Many have some analogy to are exceedingly various. each other under these two relations; but none exhibit a perfect resemblance. The writers of all ages have attached a considerable degree of importance to their methodical arrangement; and according to the doctrine then flourishing in the schools, they have created different systems of classification. Thus, the ancients, who attributed much importance to the four elements, said that there were four principal humours, the blood, the lymph, or pituita, the yellow bile, the black bile, or atra bilis; and these four humours correspond to the four elements, to the four seasons of the year, to the four elements, to the four seasons of the year, to the four divisions of the day, and to the four temperaments. Afterward, at different periods, other divisions have been substituted to this classification of the ancients. Thus, some have made three classes of liquids:—I. the chyme and chyle; 2. the blood; 3. the humours emanating from the blood. Some authors have been content with forming two classes:—I. primary, alimentary, or useless fluids; 2. secondary, or useful. Consequently, they distinguished them into—I. Recrementitions, or humours destined from their formation to the nourishment of the body.

2. Exercmentitions, or fluids destined to be thrown

Excrementitious, or fluids destined to be thrown from the system;

3. Humours, which at times participate in the characters of the two former classes, and are therefore

named excremento-recrementitious.

In later times, chemists have endeavoured to class the humours according to their intimate or component nature, and thus they have established albuminous, fibrinous, saponaeocus, watery, &c. fluids.

FLUOBORATE. A compound of the fluoboric

acid with a salifiable basis.

FLUOBORIC ACID. Acidum fluoboricum. Pro-bably a compound of fluorine with boron. It is a gaseous acid, and may be obtained by heating in a glass retort twelve parts of sulphuric soid with a mix-

ture of one part of fused boracic acid, and two of fluorspar, reduced to a very fine powder. It must be received over mercury. It combines with salifiable bases, and forms salts called fluoborics.

FLU'OR. Octobedral fluor of Jameson. It is divided into three sub-species, compact fluor, foliated fluor acarthy fluor. This genus of mineral abounds in nature, formed by the combination of the fluoric acid with line. It is called spar, because it has the sparry form and fracture: fluor, because it has the sparry form and fracture: fluor, because it has the appearance of glass, and may be fused into glass of no contemptible appearance.

FLUOR ALBUS. See Leucorrhaa.
FLUORIC ACID. (Acidum fluoricum, because obtained from the fluor-spar.) Hydro-fluoric acid.
"The fusible spar which is generally distinguished

"The fusible spar which is generally distinguished by the name of Derbyshire spar, consists of calcarcous earth in combination with this acid. If the pure fluor, or spar, be placed in a retort of lead or silver, with a receiver of the same metal adapted, and its weight of sulphuric acid be then poured upon it, the fluoric acid will be disentaged by the application of a moderate heat. This acid gas readily combines with water; for which purpose it is necessary that the receiver should previously be half filled with that fluid.

If the receiver be cooled with ice, and no water put in it, then the condensed acid is an intensely active liquid. It has the appearance of sulphuric acid, but is much more volatile, and sends off white fumes when exposed to air. Its specific gravity is only 1.0009. It must be examined with great caution, for when applied to the skin it instantly disorganizes it, and produces very painful wounds. When potassium is introduced into it, it acts with intense energy, and produces hydrogen gas and a neutral salt; when lime is made to act upon it, there is a violent heat excited, water is formed, and the same substance as fluor-spar is produced. With water in a certain proportion, its density increases to 1.25. When it is dropped into water, a hissing noise is produced, with much heat, and an acid fluid not disagreeable to the taste is formed if the water be in sufficient quantity. corrodes and dissolves glass

It appears extremely probable, from all the facts known respecting the fluoric combinations, that fluor-spar contains a peculiar acid matter; and that this acid matter is united to lime in the spar, seems evident from the circumstance, that gypsum or sulphate of lime is the residuum of the distillation of fluor-spar and sulphuric acid. The results of experiments on fluor-par have been differently stated by chemists.

Some have considered fluoric acid as a compound of

fluorine with hydrogen, but it seems on the whole to be the analogy of chlorine. But the analogy is incomthe anatogy of chlorine. But the analogy is incom-plete. Certainly it is consonant to the true logic of chemical science to regard chlorine as a simple body, since every attempt to resolve it into simpler forms of matter has failed. But fluorine has not been exhibited in an insulated state like chlorine; and here therefore the analogy does not hold.

The marvellous activity of fluoric acid may be in-ferred from the following remarks of Sir II. Davy, from which also may be estimated in some measure the prodigious difficulty attending refined investigations

on this extraordinary substance

'I undertook the experiment of electrising pure liquid fluoric acid with considerable interest, as it seemed to offer the most probable method of ascertaining its real nature; but considerable difficulties occurred in executing the process. The liquid fluoric acid immediately determined to the considerable and the process. destroys glass, and all animal and vegetable substances; it acts on all bodies containing metallic oxides; and I know of no substances which are not rapidly dissolved or decomposed by it, except metals, charcoal, phosphorus, sulphur, and certain combinations of chlorine. I attempted to make tubes of sulphur, of muriates of lead, and of copper containing metallic wires, by which it might be electrised, but without success. It might be electrised, but without success. I succeeded, however, in boring a piece of horn silver in such a manner that I was able to cement a platina wire into it by means of a spirit lamp; and by inverting this in a tray of platina, filled with liquid fluoric acid, I contrived to submit the fluid to the agency of electricity in such a manner, that, in successive experiments, it was possible to collect any elastic fluid that might be produced. Operating in this way with a very

glass vessels, little of the corrosive liquid will be obtained; but the glass will be acted upon, and a peculiar gaseous substance will be produced, which must be collected over mercury. The best mode of procuring this gaseous body is to mix the fluor-spar with pounded glass or quartz; and in this case the glass retort may be preserved from corrosion, and the gas obtained in greater quantities. This gas, which is called scheated fluoric gas, is possessed of very extraordinary prometics.

It is very heavy; about 48 times denser than hydro-gen. When brought into contact with water, it in-stantly deposites a white gelatinous substance, which is stantly deposites a winte getatious substance, which is hydrate of silica; it produces white fumes when suf-fered to pass into the atmosphere. It is not affected by any of the common combustible bodies; but when potassium is strongly heated in it, it takes fire and burns with a deep red light; the gas is absorbed, and a fawn-coloured substance is formed, which yields alkali to

coloured substance is formed, which yields alkali to water with slight effervescence, and contains a combustible body. The washings afford potassa, and a salt, from which the strong acid fluid previously described, may be separated by sulphuric acid. If, instead of glass or silica, the fluor spar be mixed with dry vitreous boracic acid, and distilled in a glass vessel with sulphuric acid, the proportions being one part boracic acid, two fluor-spar, and twelve oil of vitriol, the gaseous substance formed is of a different kind and is called the fluorage of the controllers. kind, and is called the *fluoboric gas*. It is colourless; its smell is pugent, and resembles that of muriatic acid; it cannot be breathed without suffocation; it exacm; it cannot be freathed warrout surrocation; it ex-tinguishes combustion; and reddens strongly the tinc-ture of turnsol. It has no manuer of action on glass, but a very powerful one on vegetable and animal matter. It attacks them with as much force as concentrated sulphuric acid, and appears to operate on these bodies by the production of water; for while it carbodies by the production of water; for while it car-bonizes them, or evolves carbon, they may be touched without any risk of burning. Exposed to a high tem-perature, it is not decomposed; it is condensed by cold without changing its form. When it is put in contact with oxygen, or air, either at a high or low temperature, it experiences no change, except seizing, at ordinary temperatures, the moisture which these gases contain It becomes in consequence a liquid which emits exremely dense vapours. It operates in the same way with all the gases which contain hygrometric water. However little they may contain, it occasions in them very perceptible vapours. It may hence be employed with advantage to show whether or not a gas contains moisture

No combustible body, simple or compound, attacks fluoboric gas, if we except the alkaline metals. Potassium and sodium, with the aid of heat, burn in this sium and sodium, with the aid of heat, burn in this gas, almost as brilliantly as in oxygen. Boron and fluate of potassa are the products of this decomposition. It might hence be inferred, that the metal seizes the oxygen of the boracic acid, sets the boron at liberty, and is itself oxidized and combined with the fluoric acid. According to Sir H. Davy's views, the fluoboric gas being a compound of fluorine and boron, the potassium unites to the former, giving rise to the fluoride of potassium, while the boron remains disengaged.

Elundoric gas is avery soluble in water. Dr. John

Fluoboric gas is very soluble in water. Dr. John Davy says, water can combine with 700 times its own Day says, water can combine with 700 times its own volume, or twice its weight, at the ordinary temperature and pressure of the air. The liquid has a specific gravity of 1.770. If a bottle containing this gas be uncorked under water, the liquid will rush in and fill it with explosive violence. Water saturated with this gas is limput, funning, and very caustic. By heat about one-fifth of the absorbed gas may be expelled; but it is impossible to abstract more. It then resembles concentrated sulphuric acid, and boils at a temperature considerably above 2129. It afterward condenses altogether, in strize, although it contains still a very large quantity of gass. It unites with the bases forming salis,

called fluoborates, none of which has been applied to !

any use.

The 2d part of the Phil. Transactions, for 1812, contains an excellent paper by Dr. John Davy on fluosili-cic and fluoboric gases, and the combinations of the latter with ammoniacal gas. When united in equal volumes, a pulverulent salt is formed; a second vovolumes, a purveruent sait is formed; a second vo-lume of ammonia, however, gives a liquid compound; and a third of ammonia, which is the limit of combina-tion, affords still a liquid; both of them curious on many accounts. 'They are,' says he, 'the first saits that have been observed liquid at the common temper-ature of the atmosphere. And they are additional facts in support of the doctrine of definite proportions, and of the relation of volumes.' The fluositicia acid and of the relation of volumes.' The fluosilicic acid also unites to bases forming fluosilicates.

From the remarkable property fluoric acid possesses of corroding glass, it has been employed for etching on it, both in the gaseous state, and combined with water; and an ingenious apparatus for this purpose is given by Mr. Richard Knight. in the Philosophical Magazine, vol. xvii. p. 357.

Of the combinations of this acid with most of the

Of the combinations of this acid with most of the bases, little is known.

Beside the fluor spar and cryolite, in which it is abundant, fluoric acid has been detected in the topaz; in wavelite, in which, however, it is not rendered sensible by sulphuric acid; and in fossil teeth and fossil tvory, though it is not found in either of these in their natural state."—Ure's Chem. Dict.

Fluoric acid, stilcated. See Fluoric acid.

FLUORIDE. A combination of fluorine with a salifable basis.

FLUORINE. The imaginary radical of fluoric

FLUOSILICIC ACID. See Fluoric acid.
FLUX. 1. This word is often employed for dysen-

teria.

2. A general term made use of to denote any substance or mixture added to assist the fusion of metals. FLUXION. Fluxio. A term mostly applied by chemists, to signify the change of metals, or other bodies, from the solid into the fluid state, by the applica-

tion of heat. See Fusion.

FLY. Musca.
Fly, Spanish. See Cantharis.
FOCILE. The ulna and the radius are occasionally denominated by the barbarous appellations of facile majus and minus; the tibia and fibula in the leg are also so called.

Fo'cus. A lobe of the liver

(From fodio, to dig.) A quarry. labyrinth of the ear

labyrinth of the ear.

FORNICUL'TUM LISNUM. A name for sassafras.

FOENI'CULUM. (Quasi fanum oculorum, the hay or herb good for the sight; so called because it is thought good for the eyes.) Fennel. See Anchum.

FORNICULUM ALFINUM. The herb spignel. See

Æthusa meum.

Fæniculum annuum. Royal cummin. Fæniculum aquaticum. See Phellandrium aqua-

FENICULUM DULCE. See Anethum faniculum. FENICULUM GERMANICUM. See Anethum fani-

TENICULUM MARINUM. Samphire.
FENICULUM ORIENTALE. See Cuminum.
FENICULUM PORCINUM. See Peucedanum officinale.
FENICULUM-ANENSE. Aniseed.

Bastard spignel. FENICULUM SYLVESTRE.

Seseli montanum, of Linnæus. FENICULUM TORTUOSUM. French hartwort. See

Seseli tortuosum. FENICYLUM VULGARE. See Anethum faniculum.
FCENUM. (Fanum, i. n. hay.) Hay.
FCENUM CAMELORUM. See Juncus odoratus.
FCHUM GRECUM. See Trigonella fanum gracum.
FCHUM SYLVESTRE. Wild fenugreek.

FOENUM STLVESTRE. With tenugrees.

FOESIUS, Anutius, was born at Mentz, in 1528, and received his education at Paris, where he imbibed a strong predilection for the Greek language, and particularly the works of Hippocrates. Returning to his native place about the age of 28, his talents soon procured him such extensive reputation, that several princes endeavoured to allure him to their respective courts, but without success. The practice of his profession instead of weakening his attachment to Him. fession, instead of weakening his attachment to Hip-

pocrates, only stimulated him to a more profound study of his writings; where he found the most cor-rect delineations of diseases, and the most important observations concerning them, made about two thou-sand years before. He first published an excellent sand years before. He first published an excellent Latin translation and commentary on his second book of Epidemics: then an explanation of the terms used by him, under the title of "Economia Hippocratis;" and, lastly, at the solicitation of the chief physicians of Europe, he undertook a complete correct edition of his works, with an interpretation and notes, which he accomplished in six years, in such a manner as to rank him among the ablest interpreters of the ancients. He was also author of a Phyrmeconic for his native.

was also author of a Pharmacopæia for his native city; and died in 1595.

FETA BULUM. (From fateo, to become putrid.) 1.

FIGHT SULUM. (From fattee, to become puttus.) 1.
An encysted abscess.
2. A foul ulcer.
FIGHTUS. (From fee, to bring forth, according to Vossius.) Epicyeme; Epigonion. The child enclosed in the uterus of its mother, is called a factus from the fifth month after pregnancy until the time of its birth. See Ovum.

IS DITH. See Ovum.

FOLLATA TERRA. 1. Sulphur.

2. An old name of the acetate of potassa.

FOLIATIO. (From folium, a leaf.) The manner in which leaves are folded up in their buds. See For-

natio.
FOLIA'TUS. (From its resemblance to folium, a leaf.) Foliate, leafy.
FOLICULUS. (Diminutive of folis, a leather bag.) A small follicle.
FOLIOUM. (Folium, i. n.; from φυλλον, the leaf of a tree.) See Leaf.

FOLLIM ORIENTALE. See Cassia senna.
FOLLICLE. (Folliculus; diminutive of follis, a ag.) A small bag; applied to glands. See Folli-FOLLICULOSE. (Folliculosus; from folliculus,

a little bag.) A term applied to a simple gland or fol-licle. One of the most simple species of gland, con-sisting merely of a hollow vascular membrane or follicle, and an excretory duct; such are the muciparous

glands, the sebaceous, &c. .

FOLLI'CULUS. (Diminutive of follis, a bag.)

1. A little bag. See Folliculose.

2. In botany, a follicle is a one-valved pericarp, or seed-vessel. It has one cell, and bursts lengthwise, and bears the seeds on or near its edges, or on a receptor of the seed of the seeds of the seeds on or near its edges, or on a receptor of the seeds on or near its edges, or on a receptor of the seeds on or near its edges, or on a receptor of the seeds on or near its edges, or on a receptor of the seeds on or near its edges, or on a receptor of the seeds on or near its edges, or on a receptor of the seeds on or near its edges, or on a receptor of the seeds on or near its edges, or on a receptor of the seeds of tacle parallel therewith From the adhesion of the seeds it is distinguished

Foolicle, with a partition, when the seeds adhere to an intermediate dissepiment.
 Follicle, without a partition, when the seeds adhere to the internal sides only.
 From the number of seeds.
 Monosperm follicle; as in Orontium.
 Polysperm; as in Asclepias syriaca.
 From the direction into,
 Evert: as in Figure and Nervium.

From the direction into,

1. Erect; as in Vinca and Nerium.

2. Reflected; as in Plumeria.

3. Horizontal; as in Cameraria.
FOLICULIS FELIS. The gall-bladder.
FOMENTATION. Fomentatio. A sort of partial bathing, by applying hot flannels to any part, dipped in medicated decections, whereby steams are communicated to decect

batting, by appring not names to any part, dispenin medicated decocitons, whereby steams are communicated to the parts, their vessels are relaxed, and their
morbid action sometimes removed.

FOMITES. A term meetly applied to substances
imbued with contagion.

FONS PULSATILIS. See Fontanella.

FONTANELLA. (Diminutive of fons, a fountain.) Fons pulsatitis. The parietal bones and the
frontal do not coalesce until the third year after birth,
so that, before this period, there is an obvious interstice, commonly called mould, and scientifically the
fontancl, or fons pulsatitis. There is also a less
space, occasionally, between the occipital and parietal
bones, termed the posterior fontanel. These spaces
between the bones are filled up by the dura mater, perioranium, and external integuments, so that, during
birth, the size of the head may be lessened; for, at
that time, the bones of the head, upon the superior

part, are not only pressed nearer to each other, but they frequently lap over one another, in order to diminish the size during the passage of the head through the pelvis.
FONTI'CULUS.

(Diminutive of fons.) An artificial ulcer formed in any part, and kept dis-charging, by introducing daily a pea, covered with any

gestive ointment.
FORA'MEN. (From foro, to pierce.) A little opening

FORAMEN CŒCUM. 1. A single opening in the basis of the cranium between the ethmoid and the frontal

bone, that gives exit to a small vein.

2. The name of a hole in the middle of the tongue.
Foramen Lacerum in basi cranii. A foramina in the basis of the cranium, through which the internal jugular vein, and the eighth pair and accessary nerves

FORAMEN LACERUM ORBITALE SUPERIUS. opening between the greater and less wing of the sphenoid bone on each side, through which the third, fourth, first branch of the fifth, and the sixth pair of nerves, and the ophthalmic artery pass.

FORAMEN OFTICUM. The hole transmitting the

optic nerve.

FORAMEN OVALE. The opening between the two auricles of the heart of the focus. See also Innomina-

Foramen of Winslow. An opening in the omentum. See Omentum.

FORAMI'NULUM OS. The ethmoid bone.

FORAMINUOUS OS. The ethmoid bone.
Force, vital. See Vis vita.
FORCEPS. (Forceps, cipis. f.; quasi ferriceps, as being the iron with which we seize any thing hot, from ferram, iron, and capio, to take.) Pincers. A surgical instrument with which extraneous bodies, or

surgical instrument with which extraneous bodies, or other substances, are extracted. Also an instrument occasionally used by men midwives to bring the head of the fectus through the pelvis.

FORDYCE, George, was born at Aberdeen, in 1736, after the death of his father, and his mother having married again, he was sent to Fouran, when about two years old, where he received his school eduabout two years old, where he received his school edu-cation; and thence returned to Aberdeen, where he was made master of arts, when only fourteen. Having evinced an inclination to medicine, he was soon after sent to his uncle, Dr. John Fordyce, who practised at Uppingham, with whom he remained several years. He then studied at Edinburgh, where he graduated in 1758, having defended a thesis on catarrh: after which he went to Leyden, principally to improve himself in anatomy under Albinus. The following year he set-tled it London and began to give lectures on chemistled in London, and began to give lectures on chemis-try; and, in 1764, he undertook also to teach the prac-tice of physic, and the materia medica: these subjects tice of physic, and the materia medica: these subjects occupied him nearly three hours every morning, except on Sunday, for about thirty years successively. In 1770, he was chosen physician to St. Thomas's hospital, and, six years after, a Fellow of the Royal Society: also, in 1787, he was admitted a Fellow of the College of Physicians; having been a licentiate for twenty-two years before. In 1793, he assisted in forming a small Society for the improvement of Medical and Chirurgical Knowledge, which has since published three volumes of their Transactions. He died in 1802. The countenance of Dr. Fordyce was by no means expressive of his powers of mind: he was rather negligent of his dress, and not sufficiently pleasing means expressive of his powers of mind. He was far-ther negligent of his dress, and not sufficiently pleasing in his manners, to enable him to get into very exten-eive practice: besides, he was too fond of the plea-sures of society, to which he often sacrificed the hours that should have been dedicated to sleep. The vigour that should have been dedicated to steep. The vigor of his constitution long resisted these irregularities; but at length they brought on the gout, which was fol-lowed by dropsy, and this terminated his existence. He possessed a remarkably strong memory, which ena-bled him to lecture without any notes, and to compose his works for publication without referring to authors, which he had before read; and his having relied too much on this faculty may help to explain the want of much on this faculty may help to explain the want of method and elegance, and the many inaccuracies, which appear in his writings. He was author of seve-ral publications on medical and philosophical subjects; many of which are to be found in the transactions of the societies to which he belonged. The most esteem-ed, and that on which he employed most labour, was a series of "Dissertations on Fever;" four of them ap-

peared during his life, and another was left in manuscript, which has since been printed. His Treatise on Digestion, was read originally as the Gulstonian Lec-

Script, which has since been printed. His Treatise on Digestion, was read originally as the Gulstonian Lecture before the College of Physicians. He was the projector of the Experiments in heated rooms, of which Sir Charles Blagden gave an account.

FORDYCE, Sir WILLIAM, was born at Aberdeen in 1724. At the age of eighteen, having acquired a competent knowledge of physic and surgery, he went into the army. The support of the friends, whom he there procured, together with his own merit, soon brought him into great practice, when he afterward settled in London. The wealth, which he thus acquired, was liberally employed in acts of friendship, and in supporting useful projects; though he had some very severe losses. He wrote a Treatise on Fevers, and on the Ulcerated Sore Throat; on his entering into practice, he likewise published on the Venereal Disease. He died after a long illness in 1792.

FORENSIC. Forensis. Belonging to the forum, or courts of law: hence forensic medicine is that which is connected with a legal inquiry as to the cause of de-

is connected with a legal inquiry as to the cause of de-

is connected with a legal inquiry as to the cause of defect, disease, or death.

FORESKIN. See Prepuce
FORESTUS, or Van Forrst, Peter, was born at Alemaer, in 1522. He was sent to Louvain to study the law, but soon showed a strong inclination to medicine. He therefore cultivated this science at different universities in Italy, and afterward at Paris; but he graduated at Bologna. After being twelve years settled in his native town, he was invited to Delft, which was ravaged by a contagious epidemic; and being ex-tremely successful in the treatment of this, he received a considerable pension, and was retained as the public a considerable pension, and was retained as the public physician for nearly thirty years. In 1575, he was prevailed upon to give the first lecture on Medicine at the opening of the University of Leyden. He spent the latter part of his life in his native city, where he died in 1597. He was a very diignent observer of diseases, and showed often great judgment in anticipating the result, or in treating them successfully. He published at different periods six volumes of Medical and Surgical Cases; to one of which was added a Dissertation exposing the follows and shardly of retending tion, exposing the fallacy and absurdity of pretending to judge of every thing by the urine. Boerhaave has highly commended his writings, which have been often reprinted.

"The word Formation [FORMATIONS, MINERAL. "The word Formation may signify a single mass of one kind of rock, more or less extensive, or a collection of mineral substances, formed by the same agent, under the same or similar circumstances; or it may convey the idea, that certain masses or collections of minerals were formed not only by the same agent, but also at the same time. In this latter sense, indeed, the term is almost always employed. The agent and time are to be determined by a careful examination of the external and internal FO'RMIATE. Formias. A compound produced by the union of the formic acid with a salinable basis:

by the animo of the former acts white assimilate bease. thus, formiate of ammonia, &c.
FORMIC ACID. See Formica rufa.
FORMICA. (Formica, a. f.; quod ferat micas, because of his diligence in collecting small particles of

provision together.)

1. The name of a genus of insects. The ant or pisdre. See Formica rufa.
2. The name of a black wart with a broad base, and

cleft superficies, because the pain attending it resembles the biting of an ant.

3. A varicose tumour on the anus and glans penis.

FORMICA RULARS. Any herpetic cruption.
FORMICA RULAR. The ant or pismire. This industrious little insect contains an acid juice, and gross oil, which were supposed to possess aphrodisiac virtues.
The chrysalides of this animal are said to be diuretic. and carminative, and by some recommended in the

cure of dropsy.

The ant also furnishes an acid called the formic, The ant also furnishes an acid caused the format, which it has been long known to contain, and occasionally to emit. It may be obtained, either by simple distillation, or by infusion of them in boiling water, and subsequent distillation of as much of the water as can be brought over without burning the residue. After this it may be purified by repeated rectifications or by boiling to separate the impurities; or after recti fication it may be concentrated by frost.

This acid has a very sour taste, and continues liquid even at very low temperatures. Its specific gravity is 1.1168 at 68°, which is much denser than acetic acid

Dobereiner has recently succeeded in forming this acid artificially. When a mixture of tartaric acid, or of cream of tartar, back ovide o'magnesia and water is heated, a tunniltuous action ensues, carbonic acid is evolved, and a liquid acid distils over, which, on superficial examination, was mistaken for acetic acid, but which now proves to be formic acid. This acid, mixed with concentrated sulphuric acid, is at common temperatures converted into water and carbonic oxide mitrate of silver or of mercury converts it, when gently heated, into carbonic acid, the oxides being at the same time reduced to the metallic state. With barytes, oxtime reduced to the metalije state. With parytes, ox-ideo fload, and oxideo teopper, it produces compounds, having all the properties of the genuine formittes of these metals. If a portion of sulphuric acid be em-ployed in the above process, the latter is easily entirely into carbonic acid, water, and to-me, acid; and the product of the latter is much increased. The best proportions are, two parts tartain acid, five per-oxide of manganese, and five sulphuric acid diluted

with about twice its weight in water.
Fo'rmux. See Heepes excluses.
FO'RMULA. (Diminutive of forma, a form.) A
little form of prescriptions, such as physicians direct in
extemporaneous practice, in distinction from the greater forms in pharmacopæras, &c.

FORNICIFORMIS. Vaulted. Applied to the nectary of some plants; as the Symphytum officinale, &c. See Nictarium.

FO'RNIX. (Forniz, an arch or vault.) A part of the corpus callosum in the bram is so called, because, if viewed in a particular direction, it has some resemblance to the arch of an ancient vault. dullary body, composed of two anterior and two pos-terior crura, situated at the bottom and inside of the lateral ventricle over the third ventricle, and below the septum lucidum.

FOSSA. (From fodio, to dig.) Fovea. A little depression or sinus. The pudendum muliebre.
FOSSA AMYNTE. A double-headed roller for the

face,
Fossa Magna. 1. The great groove of the ear.
2. The pudendum mulicibre.
Fossa Navicularis. 1. The cavity at the bottom of the entrance of the pudendum mulicibre.
2. The great groove of the ear.
Fossa ovalis. The depression in the right auricle of the human heart, which in the first opened into the other auricle, forming the foramen ovale.
Fossa Pituitaria. The depression in the sella furctea of the sphenoid bone.
FOSSIL (Fossilis; from fodio, to dig.) Any thing ang out of the earth.
Fossil copal. Highgate resin. A semi-transparent, brittle, resinous substance, of a yellowish-brown colour; found in the bed of blue clay at Highgate, near

colour; found in the bed of blue clay at Highgate, near

London.

Fo'ssilus. The bone of the leg.

Fo'thergill, John, was born in Yorkshire, in 1712, of a respectable Quaker family. After passing through an appendiceship to an apothecary, he went to Edmburgh, where he graduated at the age of twenty-four, taking for his imagurant thesis the use of emetics. He then studied for two years at St. Thomas's Hospital, and after an excursion to the continent, settled in London in 1740, and six years after became a licentiate. His practice was for some time chiefly grations, but his "Account of the Putrid Sore Throut," published in 1748, brought him speedby into reputation. He was successively elected a Fellow of the College of Physicians at Edinburgh, of the Royal Society of London, and of some other societies abroad. College of Physicians at Edinburgh, of the Royal Society of London, and of some other societies abroad. His early partiality to botany induced him, as his practice increased, to purchase a large piece of ground for the cultivation of rare and valuable plants, in which he spared no expense; neither did he neglect other departments of natural history. He was also an active and liberal promoter of many successful schemes for the public benefit; and particularly in instituting the school at Ackworth in Yorkshire. He was of a rather delicate constitution, but a steady temperance preserved his health, till in 1778 he had an attack of a Khamnus frangulu.

suppression of urine, occasioned by a disease of the prostate gland; which, returning two years after, soon put a period to his existence. He had a quick and comprehensive understanding; and his pleasing address procured him general confidence, which his discretion was not apt to forfeit afterward. Besides the works afready noticed, several papers of Dr. Fothergilt were printed in the Philosophical Transactions, and in the Medical Observations and Inquiries: he also sent several communications to the Gentleman's Magazine and other periodical publications.

zine, and other periodical publications.

FO TUS. (Fotus, ús. m.) See Fomentation.

FO VEA. (From fodio, to dig.) 1. A little de-

2. The pudendum muliebre.

3. A partial sweating-bath.
FOVEATUS. Having a little depression, or pit.
Applied to the nectary of plants. See Necturium.
FOX-GLOVE. See Digitalis.
Fox-glove, Eastern. See Sesamum orientale.

Fox-glove, Eastern. See Sesamum orientale. FRACASTORIUS, HIERONYMUS, Was born at Ve-FRACASTORIUS. HERONYMUS, was born at Verona, in 1483. He made a rapid progress in his studies, and attained early considerable excellence as a poet, philosopher, and astronomer. He was also much valued as a physician, particularly by the general of the Venetian army, whom he attended during several campaigns; but on his dying, in 1515, Fracastorius returned to his native place. He corresponded with most of the great men of his age, especially with Cardinal Bembo, to whom he dedicated his poem, "Syphilis;" which was thought worthy of comparison with the Georgics of Virgil by some of the best judges. He died in 1553; and a statue was erected to him by the town of Verona. He published also on Contagious Diseases, and several other Medical and Philosophical Subjects.

FRA'CTURE. (Fractura; from frango, to break.) Catagma; Clasis; Clasma; Agme. A solution of a bone into two or more fragments. A simple fracture is when the bone only is divided. A compound fracture is a division of the bone, with a laceration of the integuments, the bone mostly protruding. A fracture is also termed transverse, oblique, &c. according to its

FRÆ'NULUM. (Diminutive of franum, a bridle.) The cutaneous fold under the apex of the tongue, that connects the tongue to the infralingual cavity. It is connects the tongue to the inframingual Cavity. It is Sometimes, in infancy, so short as to prevent the child from sucking, when it is necessary to cut it, in order to give more room for the notion of the tongue. FRÆNUM. The membraneous fold which connects the prepuce to the inferior part of the glans

FRA'GARIA. (From fragro, to smell sweet.) The strawberry. 1. The name of a genus of plants in the Linnæan system. Class, Icosandria; Order, Poly-

gynia.
2. The pharmacopæial name of the strawberry. See Fragaria vesca. FRAGARIA STERILIS. Barren strawberry. Astrin

gent, seldom used.

FRAGARIA VESCA. The systematic name of the strawberry plant. Fragaria. The mature fruit of the Fragaria, fragellis reptantibus of Linneus, was formerly recommended in gouly and calculous affections, in consequence, it would appear, of its efficacy in removing tartar from the teeth, which it is said to do very effectually

FRAGILE VITREUM. An obsolete name for the fra

FRAGILIS. Brittle. FRAGILITAS. Brittleness.

FRAGILITAS. Brittleness, FRAGILITAS. Brittleness of the bones. FRAGILITAS OSSIUM. Brittleness of the bones. FRAGILITAS OSSIUM. Brittleness of the bone. FRAGILITAS OF THE STANDERS, FRAGILITAS OF THE STANDERS, SEE FRAMBŒISTA. (From framboiss, Fr. for a raspberry.) The yaws. A genus of disease, arranged by Cullen in the class Cachesias, and order Impetigenes. It is somewhat similar in its nature to the fues venera and is englemial to the Antillies islands, as well as It is somewhat similar in its nature to the fues venerea, and is endemial to the Antilles islands, as well as Africa. It appears with excrescences like multipries growing out of the skin in various parts of the body, which discharge an ichorous fluid.

FRA'NGULA. (From frango, to break: so called because of the brittleness of its branches.) See

FRANKINCENSE. See Juniperus lycie, and Pinus | medicine, he communicated to the Royal Society some

[FRASERA WALTERI. See American Columbo. A.] FRAXINE'LLA. (From frazinus, the ash: so called because its leaves resemble those of the ash.) See Dictamnus albus.

Frazinella, white. See Dictamnus albus. FRA'XINUS. (A fragore, from the noise its seeds make when shaken by the wind; or from \$\phi\_a \ext{t}\_{\text{t}}\$, a hedge, because of its use in forming hedges.) The

The name of a genus of plants in the Linnæan system. Class, Polygamia; Order, Diwoia.
 The pharmacopæial name of the ash-tree. See

Frazinus excelsior.

Fraxinus excelsior.

Fraxinus excelsior. The systematic name of the ash-tree. Frazinus. Called also brumelli and bumelia. The bark of this tree, Fraxinus—folis serratis floribus apetalis of Linneus, when fresh, has a moderately strong bitterish taste. It possesses resolvent and diuretic qualities, and has been successfully exhibited in the cure of intermittents. The seeds are occasionally exhibited medicinally as diuretics, in the dose of a drachm. It wasne climates a sert of manage syndes. In warm climates, a sort of manna exudes

from this species of fraxinus.

from this species of fraxinus.

Fraxinus ornus. The systematic name of the tree from which manna flows. This substance is also termed Manna Calabrina; Ros calabrinus; Acromeli; Alusar; Drysomeli: That species which is of a rosy colour, is called nuba. Mol asrium, from the supposition that it descended from heaven. Manna is the condensed juice of the flowering ash, or Fraxinus ornus—foliis ovato oblongis servatis petiolatis, floribus corollatis, Hort. Kew. which is a native of the southern parts of Europe, particularly Sicily and Calabria. Many other trees and shrubs have likewise been observed to emit a sweet luice, which concretes upon exerved to emit a sweet luice. Many other trees and shrubs have likewise been observed to emit a sweet juice, which concretes upon exposure to the air, and may be considered of the manna kind, especially the Frazinus votundifolia, and excelsior. In Sicily these three species of fraxinus are regularly cultivated for the purpose of procuring manna, and with this view are planted on the declivity of a hill with an eastern aspect. After ten years' growth, the trees first begin to yield the manna, but they require to be much older before they afford it in any considerable quantity. Although the manna exudes spontaneously upon the trees, yet, in order to obtain it more copiously, incisions are made through the bark, by means of a sharp crooked instrument; and the season thought to be most favourable for instituting this process, is a little before the dog days commence, when thought to be most favourable for instituting this pro-cess, is a little before the dog days commence, when the weather is dry and screen. Manna is generally dis-tinguished into different kinds, viz. the manna in tear, the canulated and flaky manna, and the common brown or fat manna. All these varieties seem rather to depend upon their respective purity, and the manner in which they are obtained from the plant, than upon any essential difference of the drug. The best manna is in oblevy pieces or flakes mogrately dry frighle. is in oblong pieces or flakes, moderately dry, friable, is in oblong pieces or flakes, moderately dry, friable, very light, of a whitish or pale yellow colour, and in some degree transparent: the inferior kinds are moist, unctuous, and brown. Manna is well known as a gentle purgative, so mild in its operation, that it may be given with safety to children and pregnant women, be given with safety to children and pregnant women, to the delicacy of whose frames and situations it is particularly adapted. It is esteemed a good and pleasant auxiliary to the purgative neutral salts. It sheathes acrimony, and is useful in coughs, disorders of the breast, and such as are attended with fever and inflammation, as in pleuritis, &c. It is particularly efficacious in bilious complaints, and helps the discharge of mineral waters, when they are not of themselves sufficiently active. It is apt, in large doses, to create flatulencies and gripes; both of which are prevented by a small addition of some warm carminatives. It purges in doses of from 3 ju 5 ji; but its purgative quality is much increased, and its flatulent effects prevented, by a small addition of cassia. The dose for children is from one scruple to three. It is best dissolved in whey. best dissolved in whey

FRAMINS ROTUNDIFOLIA. The systematic name of a tree which afferds manna. See Frazinus ornus. FREIND, JOHN, was born in 1675, at Croton, in Northamptonshire, of which his father was rector. After being educated at Westminster he went to Oxford, where he distinguished hinself greatly by his classical attainments. Having for some time studied

medicine, he communicated to the Royal Society some singular cases: but a work, which he published in 1703, entitled "Emmenologia," explaining the phenomena of menstruation, both natural and morbid, on mechanical principles, first brought him into notice as a physiologist and physician. In the following year, he was appointed professor of Chemistry at Oxford, but soon after went to Spain as physician to the English forces; and he took this opportunity of visiting Italy. On his return, in 1707, he was created a Doctor by diploma, and published his Chemical Lectures in Latin. In 1712, he was chosen a Fellow of the Royal Society; but soon went abroad again with the troops by diploma, and published his Chemical Lectures in Latin. In 1712, he was chosen a Fellow of the Royal Society; but soon went abroad again with the troops into Flanders. On the conclusion of the peace in the following year he settled in London, and rose to high professional reputation. In 1716, he was received as Fellow of the College of Physicians, and published the first and third books of Hippocrates on Epidemics, with a Commentary on Fevers, in nine parts; a work of great erudition and judgment. Some of his opinions having been severely attacked, he was led to defend them in a letter to Dr. Mead, entitled "De purgantibus in secundo Variolarum confluentium Febre adhibendis," 1719. A few years after this he got into parliament, and having warmly sided with the opposition, he was, in common with several persons of consequence, imprisoned on suspicion of high treason: but the minister, Sir Robert Walpole, having fallen sick, Dr. Mead refused to attend him till his friend was liberated; when he made over to him 5000 guineas, which he had received from his patients during his confinement of a few months only. While in the Tower, Dr. Freind formed the plan of his great work, "The History of Physic from Galen to the beginning of the Sixteenth Century, chiefly with regard to Practice," which came out in two volumes within three years after. This was intended as, a continuation of Le Clerc, and met with a very favourable reception; indeed it still continues to be a standard book. On the accession of George II. he was appointed physician to the Queen; and having died in July 1728, his widow and son experienced the royal protection.

FRE'NA. A putrid fever.

FRIGIDA RIUM. (From frigidus, cold.) The

FRE'NA. The sockets of the teeth.
FRIGERA'NA. A putrid fever.
FRIGIDA'RIUM. (From frigidus, cold.) cold bath.

FRINGE. See Fimbria.

FRINGE. See Fimbria.

Fringed leaf. See Leaf.
FRONS. (Frons, tis. f. or m.) 1. The forehead.
The part between the eyebrows and the hairy scalp.
2. (Frons, dis. f.) The frond, or leaf; a tree: now
used by botanists to the cryptogamious plants only.
FRONTAL. (Frontalis; from frons, the forehead.) Belonging to the forehead.

Frontal bone. See Frontis os.

Frontal sinus. See Frontis os. FRONTA'LIS. See Occipito frontalis.

FRONTIALIS. See Occupio Fromatica.
FRONTIS OS. The frontal bone. Os coronale,
FRONTIS OS. The frontal bone. Os coronale,
Os inverceundin, Metopon. The external surface of
this bone is smooth at its upper convex part, but below this one is smooth at its upper convex part, but below several cavities and processes are observed. At each angle of the orbits the bone juts out to from two internal and two external processes; and the ridge under the eyebrow on each side is called the supercitary process; from which the orbitar processes extend backwards, forming the upper part of the orbits; and between these the ethmoid bone is received. The nasal processes. At the internal angular process is a cavity. processes a situated between the two internat augustar processes. At the internal angular process is a cavity for the caruncula lachrymalis; and at the external, another for the pulley of the major oblique muscle. The foramina are three on each side; one in each superciliary ridge, through which a nerve, artery, and vein, pass to the integuments of the forehead; a second near the middle of the internal side of the orbit, called near the middle of the internal side of the orbit, called internal orbitar; the third is smaller, and lies about an inch deeper in the orbit. On the inside of the os frontis there is a ridge which is hardly perceptible at the upper part, but grows more prominent at the bottom, where the foramen coccum appears; to this ridge the falx is attached. The frontal sinus is placed over the orbit on each side, except at this part the frontal bone is of mean thickness between the parietal and occipital; but the orbitar process is so thin as to be

FRUCTIFICATION. (Frustificatio; from fructue,

fruit, and facto, to make.) Under this term are com- Although this is seldom done, it is nevertheless the prehended the flowers and the fruit of a plant. It is a best method to procure a fine flavour, which fixes the prehended the flowers and the fruit of a plant. It is a temporary part of plants appropriated to generation, temminating the old vegetable and beginning the new. By the parts of fructinication, Sir James Smith observes, each species is perpetually renewed without best to the property of the property of the property of the property of the parts of the property of the prope serves, each species is perpetually renewed without limits, while all other modes of propagation are but the extension of an individual, and sooner or later terminate in its total extinction. The fractification is therefore essential to vegetables. A plant may be destitute of stem, leaves, or even roots, because if one of these parts be wanting, the others may perform its functions, but it can never be destitute of those organs on while its sneples is apparatually. by which its species is propagated.

Linnaus distinguishes seven parts of fructification, some of which are essential to the very nature of a flower or fruit; others not so indispensably necessary, and therefore are not universal.

The calyx, or flower-cup, not essential and often nt. See Calyx. 2. The corolla, or petals, likewise not essential. See

3. The stamen or stamina. These are essential.

See Stumen.

4. The pistillum, or pistilla, in the centre of the flower, consisting of the rudiments of the fruit, with one or more organs attached to them, and therefore one of more organs attached to them, and therefore essential. See Pistillum.

5. The pericarpium, or seed-vessel, wanting in many plants. See Pericarpium.

plants. See Pericarpium.
6. The semen, or seed, the perfecting of which is the sole end of all the other parts.

7. The receptaculum, which must necessarily be present in some form or other. See Receptaculum. FRUCTUS. (Fructus, tås. m.; à fruor.) The fruit of a tree or plant. By this term is understood in botany, the produce of the germen, consisting of the seed-vessel and seed.

FRUCTUS HOREI. Summer fruits. Under this term are comprehended strawberries, cherries, currants, mul-berrics, raspberries, and the like. They possess a sweet subacid taste, and are exhibited as dietetic auxisweet subacid taste, and are exhibited as dictone auxiliaries, as refrigerants, antisepties, attenuants, and aperients. Formerly they were exhibited medicinally in the cure of putrid affections, and to promote the alvine and uninary excretions. The acid which they contain is either the tartarie, oxalic, citric, or mallic, or a mixture of two or more of them with sugar and gluten, starch, and a gelatinous substance. Considering them as an article of diet, they afford little nourishment, and are liable to produce flatulencies. To persons of a bilious constitution and rigid fibres, and where the habit is disposed naturally, or from extrinsic causes, to an inflammatory or putrescent state, their moderate and even plentiful use, is salubrious; by those of a cold inactive disposition, where the vessels are lax, the circulation languid, and the digestion weak, they should be used very sparingly. The jaices exthey should be used very sparingly. The juices extracted from these fruits by expression, contain their active qualities freed from their grosser indigestible matter. On standing the juice ferments and changes to a vinous or acetous state. By proper addition of sugar, and by builting their forces of the second state. a vincous or account state. By proper addition of sugar, and by boiling, their fermentailve power is suppressed, and their medicinal qualities preserved. The juices of these fruits, when puritied from their fixeulencies by settling and straining, may be made into syrups, with a due proportion of sugar in the usual way.

FRUIT. See Fructus.

Fruits, summer. See Fructus horæi

[Fruits affording spirit. "I shall class only the several productions which afford ardent spirits, and which may be worked to advantage at this day in the form of results of late experiments in some, and a slight

norm or results or late experiments in some, and a slight knowledge of others, for the benefit of future improvement and research, beginning with "The Apple. The juice of this fruit (which is the future in the property of the property of

catter coort, when expressed and termented,) affords, by distillation, one-tenth of its weight of spirit of the first proof on Dica's hydrometer.

"The Pear. This fruit, when expressed as the apple, affords nearly the same result; the qualities differing, as the quality of the fruit differs, in the same ratio 28 the analog. Proceedings as the apple. Process, the same as the apple.

"The Peach. This fruit is cultivated in abundance

throughout the United States, though in greater abundance to the southward of Pennsylvania. It affords, by distillation, about one-eighth by clear expression.

principal value

" Peaches intended for distilling are thrown into bins; when the ripest should be assorted out, and and mash them with their feet. In the southern and mash them with their feet. In the southern states, wooden stampers are used, as they cannot conveniently be ground in a mill, owing to the danger of the stone. This is a practice which might well be remedied, by supplying their mills with stones after the manner of a tanner's bark-mill. It would also be attended with the advantage of breaking the peachstones, which would impart that rich aromatic which its keruel possesses, and which is so highly prized in that celebrated cordial called noyeau. After being well macerated, it is thrown into vats or casks, and diluted with water, so as to prevent an empy-reuma. In this state it is called mobby, and, after a thorough fermentation, it is in that state committed to the still, together with the mass. Others press it in "The Plum.

This is a fruit which is more used in "The Plum. This is a fruit which is more used in culinary purposes, and for the table. But there is a kind of plum which grows plentifully in most parts of the United States, called the red plum. It is of a beautiful saffron colour, inclining to red. This fruit affords nearly the same product as the peach, and should be treated in the same manner.

"The Cherry. There is a variety of this fruit: that

treated in the same manner.

"The Cherry. There is a variety of this fruit; that which affords the greatest quantity of spirit is the black-heart cherry, which should be treated precisely as the peach. This fruit is more valued for the aromatic flavour which it imparts to spirit, and from which is made the exhibitanting water called cherrybounce.

outnee.

"The Papaw is a fruit resembling seed cucumber. Its pulp is of a saffron colour, nearly of the consistence of a meion, and its flavour much like custard. It is too luscious, when ripe, to be agreeable to the palate, but when boiled, green, is pleasant. It ripens about the middle of September; is a native of Kenucky, Maryland, and Pennsylvania. The tree grows from twelve to twenty-six feet high. The fruit affords, by distillation, a spirit by some highly prized, and in condistillation, a spirit by some highly prized, and in considerable quantities. The process is well known to the inhabitants where the fruit grows in abundance. "The Blackberry, Wharttoberry, &c. afford spirit in tolerable quantities, by expression, fermentation, and distillation."

in folerable quantities, by expression, termentation, and distillation.

"The Sugar-maple is a tree which abounds in the northern and western parts of the United States; it grows from forty to sixty feet iff height. The sap is drawn in February and March; of this sap the inhabitants make large quantities of sugar. This sap, duly fermented and distilled, produces a spirit of a very su-perior quality, and highly esteemed. The process is simply a fermentation of the sap, and distillation in

simply a termenation of the sap, and distination in the common way.

"The Persimmon is a fruit so well known throughout the United States, that a description is unnecessary. This fruit is fit for distillation only after a severe frost, which instantly ripens it, when it is gathered and thrown into a cistern or cask, in which state it is easily crushed and diluted with warm water, fermented, and the whole mass committed to the still.

fatte it is easily crushed and diluted with warm water, fermented, and the whole mass committed to the still. Some strain the mass through a coarse catgut, which takes out the seeds, that are of a powerful astringent quality. This spirit is not highly esteemed.

"The Potato. There are two kinds of the potato; one of which is commonly called the Irish potato, and the other the sweet potato; the latter of which allords the greatest quantity by distillation. The process is the same in both, yet the sweet potato works more kindly. After being well boiled in water, (steam is the best,) they are macerated by various means (a heavy roller is the best): they are then diluted with a sufficient quantity of water, and strained through a coarse canvass, to separate the skins (this is a process, however, which may be dispensed with); they are then thrown into casks, fermeuted, and committed to the still. The distillation of potatoes may, in a short time, become a matter worthy of attention. At present, the negroes of Georgia and the Carolinas are the only manufacturers. The spirit is of an inferior quality, and is used by the poorer class of inhabitants but a vast field for improvement lies open.

"Turnips, Parsnips, Carrots, Pumpions, Cashaws, &c. afford spirit of an inferior quality, and in tolerable quantities. They are to be treated similar to the

" Grain, of every description, affords spirits of dif-

ferent qualities, according to weight.

Wheat, weighing 60lbs. per bush affords 8 to 12 quarts. 60 do. Indian corn, 60 do. 10 - 14 Buckwheat, 6 do. 5-Barley, do.

Rice, 70 do.
"The spirit afforded by the distillation of rice is what is usually termed rack, or arrack. This article is imported chiefly from Bengal, and is distilled from rice, although the real and genuine arrack is distilled in the island of Goa, from the sap of a tree, drawn in

In the island of God, from the sap of a tree, drawn in the same manner as our sugar-maple.

"The Grape. In the United States, the cultivation of the domestic grape has but just commenced: the numerous species, however, of our wild grape, with which our forests abound, make it a matter of consideration. These being collected in sufficient quantities, when ripe, they may be treated with success, after the process of the apple, and afford a beautiful

spirit, not unlike cogniac.

"Indian Corn (the stalk). The young stalk of the Indian corn, (which should be used about the time of earing,) like the sugar-cane of the West Indies, atlords earing,) like the sugar-cane of the West Indies, allords a large quantity of juice or sap by expression, which, when fermented and distilled, yields abundantly of spirit of a very superior quality. This should be broken and worked in the same manner as the sugar-cane, which is by ant-mills of iron, after the manner of our cider mills.—Krafft's Amer. Distiller. A.]

FIR MENT'A CEOUS. A term applied to all such plants as have a conformity with wheat, either with respect to their fruit, leaves, or ears.

FRUTESCENTIA. (From fructus, fruit.) The time at which the fruit arrives at maturity.

FRUTEX. A shrub or plant, which rises with a woody durable stem, but never arrives at the height, or

woody durable stem, but never arrives at the height, or has the appearance of an arbor, or tree.

nas ine appearance or an aroor, or tree.

FUFCUS. The name of a genus of plants in the
Linnaran system. Class, Craptogumia; Order, Algac.

Fucus notifixarus. This fucus grows upon stones
and rocks in the sea near the shore. It has several
plain, long leaves or sinuses springing from a round
stalk, in the manner of fingers when extended. It affords soda.

Pucus Esculentus. Edible fucus. Hudson has made this a distinct species, but Linnæus included it under his saccharinus. It grows plentifully in the sea near the shores of Scotland, and also those of Cum-It has a broad, plain, simple, sword-shaped berland.

leaf, springing from a pointated stalk.

FUCUS HELMINTHOCORTON. See Corallina coraciona.

FUCUS PARMATUS. Handled thous. This grows in the sea, and consists of a thin-lobed leaf like a hand. This grows in

Fueus saccharinus. Sea-belts; so called from the supposed resemblance of its leaves to a belt or girdle. It grows upon rocks and stones by the sea-shore. leaves are very sweet, and when washed and hung up to dry, will exude a substance like sugar, from whence

Fucus vesiculosus. The systematic name of the sca-oak. Sea wreck. Quercus marina. This seaweed, the Fucus—fronde plana dicatoma costata integerima, vasiculis arillaribus geminis, terminalibus tuberculatis, of Linneus, is said to be a useful assistant to sea-water, in the cure of disorder of the glands. Burnt in the open air, and reduced to a black powder, it forms the admons vegenation, internal medicine, is similar to burnt sponge.

This term is ap-

' FULCRUM. A prop or support. This term is applied by Linnaus, not only to those organs of vegetables correctly so denominated, such as tendrils, but also to various other appendages to the herbage of a plant, none of which are universal or essential, nor is there any one plant furnished with them all. Sir James Smith prefers the English term appendage, for these organs in general, to props, because the latter applies culy to one of them. only to one of them.

The greater props, or fulcra of vegetables, are the roots, trunks, and branches.

A 2

To the less are referred.

The petiolus, or petiole, which is the fulcrum of the leaf.

the lean.

2. Cirrus, the tendril. See Cirrus.

3. The stolo, or sucker; a filament, or underground bud, protruded from the root, and sending off radicles into the earth, pushes up a stem resembling the parent plant; as in the strawberry, and Syringu vulgaris.

4. Sarmentum, the runner, which gives off from the stem, and radicates on that which is nearest to it; as does the Hedera helix, or ivy.

The fulcra of a flower are the peduncle, scape, and

FULI'GO. (Quasi fumiligo; from fumus, smoke.)
Arazos; Asoper; Asuoli. Soot. Wood-soot, fuligo
ligmi, or the condensed smoke from burning wood, bas
a pungent, bitter, and nauseous taste, and is resolved
by chemical analysis into a volatile alkatine salt, an empyreumatic oil, a fixed alkali, and an insipid earth.

empyreumatic on, a fixed aikan, and an insipid earth.
The tineture prepared from this substance, tinetura
fulliginis, is recommended as a powerful antispasmodic
in hysterical affections.
[FULLER, Dr. SANUEL, one of the memorable
planters of Plymouth, who came over with the first
settlers, in 1620. He was the first regularly-educated
physician that visited New-England. He did not confine his benevolent offices to the inhabitants of Newthe his achevoient offices to the inhabitants of New Plymouth, and to the aboriginals of the country, but readily gave his assistance to the people of Naumkeak (Salem) and Charlestown, after Mr. Endicott came to that part of Massachusetts Bay. Several of the peo-ple died of the 'scurvy, and other distempers,' and many were subjected to diseases arising from unwholesome diet, and want of proper accommodations. Having no physician among themselves, it was fortunate for those planters that Plymouth could supply them with one so well qualified as Dr. Fuller, who visited them at the request of Governor Endicott, and net with great success in his practice. He visited Salem first in 1628, and again in 1629, on account of the sickness introduced there by the newly-arrived ships. When he arrived at Plymouth, from Salem, Governor Endicott wrote to Governor Bradford a letter of thanks, speaking highly in praise of the physician, and also expressing his hearty concurrence with their church at Plymouth, its form and discipline: from which it is evident that the conversation of Dr. Fuller which it is evident that the conversation of Dr. Fuller had some effect upon his religious opinions, for there was a difference of sentiment before this interview, and a jealousy, lest the Plymouth church should exercise a jurisdiction over the church in Salem. In his medical character, and for his Christian virtues and unfeigned piety, Dr. Fuller was held in the highest estimation, and was resorted to as a father and

wise counsellor during the perils of his day. He was finally one of several heads of families who died of a fever, which prevailed in Plymouth in the summer of

1633, and was most deeply lanented by all the colonists."—Thatch. Med. Biog. A.]
FULLERS' EARTH. An earth found in large beds in Buckinghamshire and Surrey, composed of silica, alumine, magnesia, lime, muriate of soda, a trace of

potassa, and oxide of iron. See Earth, Fuller's.
["FULTON, ROBERT. Notwithstanding the various unsuccessful projects of propelling boats by means of steam-enginery, Mr. Robert Fulton has had the cou-rage to undertake and construct one at New-York, rage to undertake and construct one at New-1 oru, upon a plan of his own, and his success is undoubted. His boat is upwards of 140 feet long, and about 15 feet wide, resembling a batteau of large dimensions. The engine is upon the plan of Wait & Boulton's latest improvement, and is a most complete piece of machinery. The power is applied to the water in which the boat moves, by means of wheels, with only eight arms, revolving on their axis. When the piston makes arms, revolving on their axis. When the pusson makes 20 strokes in a minute, these are turned with a motion brisk enough to stem the currents both of the East and North rivers, at the rate of four miles and more in an hour. She draws but a few inches of water. She actually made a voyage to Albany and back again in 100 hours, or a little more than four days, and she promises to be of the greatest service in working her way. magainst the streams of rivers, such as the Mississippi, and others that have no tides."—Med. Repos. vol. xi.

The preceding notice of Fulton's first experiment

with his rough-constructed steamboat, was published

In the summer of 1807, in the New-York Medical Repository. The writer of this article was on board during the first trial, and observed the anxiety and joy of Mr. Fulton at the prospect before him. The vessel moved from the dock in the eastern part of the city of New-York, and was steered into the North or Hudson New-York, and was steered into the North or Hudson river, opposite Hoboken, where she was anchored, and after remaining there a while, returned to the place of starting. On the next day, Mr. Fulton proceeded to ascend the Hudson river, and, as stated above, was 100 hours in going to Albany and returning thence to New-York, a distance of 300 miles, or nearly that, being on an average less than four miles an hour. This boat was afterward fitted up as a packet-boat for passengers, and called the Car of Neptune. The next summer (1808) another boat was constructed upon a better model, and her speed surpassed the first. Some alteration or improvement was made in every subsequent boat constructed under the direction of Mr. Fulton, until the time of his death, (in Feb. 1815), when his boats went from New-York to Albany in when his boats went from New-York to Albany in about 20 hours, making an average of more than seven miles an hour. Since his death further improvements have been made in the construction of steamboats and their machinery, so that some of them make the trip from New-York to Albany by daylight, and some have made the passage down the river from Albany to New-York, in the extremely short period of twelve hours, making an average speed of more than twelve miles an hour. It is the opinion of some that further improvements will take place, and that the same dis-

Improvements will take piace, and that the same distance will be run in nine or ten hours.

Mr. Fulton has the merit of being the first engineer who made a practical and successful application of steam-power to the propulsion of vessels through the water. He claimed no more. He used Watt & Boutton's steam engine, and modified it to suit his wishes, and the object he had in view; and having succeeded beyond his own most sanguine expectations, and to the astonishment of all his countrymen, he has died and left a legacy of incalculable value to his country and the whole civilized world. Others had indeed engaged in similar experiments, but without success. He was the master spirit who pointed out the true method, and succeeding engineers have profited by his experience; and steamboats now navigate the rivers, bays, and lakes of the United States, in greater numbers than in

any other country.

Robert Fulton was a native of Pennsylvania, and by profession a portrait painter. He became acquainted with Robert Livingston in Paris, while residing there as Minister of the United States near the French government. Their views corresponding on the feasi-bility of constructing a steamboat, Mr. Fulton was patronized by the minister, whose wealth enabled him to make all the necessary advances towards accomplishing this object. He was so far successful as to put a boat in rapid motion on the river Seine; and after this prelude to his future success, he returned to his native country, and constructed his first boat in 1807, as above stated, from which has emanated all the steamboats now in use in this country and Eu-

FULMINA'TION. Fulminatio. Detonation. quick and lively explosion of bodies, such as takes place with fulminating gold, fulminating powder, and in the combustion of a mixture of inflammable gas and

FUMA'RIA. (From fumus, smoke, from its juice, when dropped into the eye, producing the same sensations as smoke.)

1. The name of a genus of plants in the Linnman restem. Class, Diadelphia; Order, Decandria. Fugystem.

mitory.

2. The pharmacopæial name of the common fumi-

See Fumaria officinalis.

FUNARIA BULBOSA. Aristolochia fabacea. The root of this plant, Fumaria—caule simplici, bracteis longitudine florum, of Linnæus, was formerly given to

restore suppressed menses, and as an anthelmintic.
FUMARIA OFFICINALIS. The systematic name of the funitory. Fumaria: Fumus terra; (2pnos. Herba metancholifuga. The leaves of this indigenous plant, metanekottjuga. The reaves of this indigenous plant, Fumaria—pericarpiis monospėrmis racemosis, caulė diffuso, of Linneus, are directed for medicinal use by the Edinburgh college; they are extremely succulent, and have no remarkable smell, but a bitter, somewhat

saline taste. The infusion of the dried leaves, or the expressed juice of the fresh plant, is esteemed for its property of clearing the skin of many disorders of the

leprous kind.

FUMIGA'TION. (Fumigatio; from fumus, smoke.)
The application of fumes, to destroy contagious miasmata or effluvia. The most efficacious substance for mata or effluvia. The most efficacious substance for this purpose is chlorine; next to it the vapour of intric acid; and, lastly, that of the muriatic. The fumes of heated vinegar, burning sulphur, or the smoke of exploded gunpowder, deserve little confidence as antiloinies. The air of dissecting rooms should be nightly furnigated with chlorine, whereby their atmosphere would be more wholesome and agreeable during the

day. FUMITORY. See Fumaria.

FUMUS. Smoke. FUNCTION. See Action.

FUNCTION. See Action.
FUNGI. (The plural of fungus.) An order of the class Cryptogamia of Linneus's system. They cannot probably be said to have any herbage; their substance is fleshy; their parts of fructification are in form of very small capsules buried in their fleshy substance. These seminiferous capsules are on the surface, or in plates, and are called lamella, or gills, pores, or prickles, and

they burst, as in the algæ

A fungus or mushroom affords the following parts. Pileus, the hat, which is the round upper part, or

head.

2. The *Umbo*, the knob, or boss, or more prominent part in the centre of the hat.

part in the centre of the hat.

3. Lamellæ, the gills, or membraneous parts on the under side. These are peculiar to the Agarici.

4. The pores, or small punctures on the under surface, observed only in the genus Boletus.

5. Echini, or Aculei, elevated points on the upper surface of the pileus, noticed in the genus Hydra only.

6. Verrucæ, warts, observed on the inferior surface.

7. Stipes, the stem supporting the hat.

8. Value, the vyramer or covering of a membra.

8. Volva, the wrapper, or covering, of a membra neous texture, surrounding the stem, and concealing the parts of fructification, and in due time bursting all around, forming a ring upon the stalk; as in Agaricus campestris. Linnæus also uses this term for the more

fleshy external covering of some other fungi, which is scarcely raised out of the ground, and enfolds the whole plant when young

9. Annulus, the ring, or slender membrane sur-rounding the stem. The varieties of the pileus, or hat, are,

1. Planus, flat.

Convexus; as in Boletus bovinus. Concavus; as in Octospora.

Umbonatus, umbo or navel-like; as in Agaricus

conspurcatus . Campanulatus; as in Agaricus fimitarius

6. Viscidus, viscid.

Dimidiatus, half round; as in Agaricus niveus. Squamosus, covered with coloured scales; as in

Agaricus procerus.
9. Squarrosus, having stiff elevated scales; as in

Agaricus conspurcatus.
The varieties of the lamellæ are

Equal; as in Agaricus crinitus.

Branched, when several run into one: as in Merulius cantharellus

4. Decurrent, proceeding down the stem.5. Venous, so small that they appear like elevated

6. Dimidiate, half round; as in Agaricus musea-

7. Labyrinth-like; as in Agaricus quercinus The varieties of the volva are,

1. Simple.

2. Double.

3. Stellate, cut several times; as in Lycopodium stellatum

The varieties of the annulus are

1. Erect, loose above, and fixed below; as in Agaricus conspurcatus.

2. Inverse, fixed above, free, and bell-like below; as in Agaricus Mappa.
3. Sessile, fixed only laterally.

4. Mobile; as in Agaricus antiquatus.
5. Persistent, remaining after the perfect formation

6. Evanescent, disappearing after the complete evolution of the fungus.

7. Aracknoid, resembling a slender white web. The varieties of the stipes or stem.

The varieties of the stipes of stem.

1. Annulate, having a ring.

2. Maked, without any.

3. Squamose, scaly.

4. Bulbous; as in Agaricus separatus.

5. Filiform; as in Agaricus crinitus.

FUNGIC ACID. Acidum fungicum. The expressed juice of the beletus jugiandis, boletus pseudoigniarius, the phallus impudicus, merulius cantharels fus, or the pecisa nigra, heing boiled to coagulate the alument then filtered avanorated to the consistence of bumen, then filtered, evaporated to the consistence of an extract, and acted on by pure alkohol, leaves a substance which is called Fungic acid.

stance which is called Fungic acid.

It is a colourless, uncrystallizable, and deliquescent mass, of a very sour taste. The fungates of potassa and sodd are uncrystallizable; that of ammonia forms regular six-sided prisms; that of lime is moderately soluble, and is not affected by the air; that of barytes is soluble in fifteen times its weight of water, and crystallizes with difficulty; that of magnesia appears in soluble granular crystals. This acid precipitates from the acetate of lead a white flocculent fungate, which is soluble in distilled vinegar. When insoluted, it does not affect selfution of aircage of silver; but the it does not affect solution of nitrate of silver; but the

it does not affect solution of nitrate of silver; but the fungates decompose this sait.

FUNGIN. The fleshy part of mushrooms deprived by alkohol and water of every thing soluble.

FUNGUS. 1. Proud-flesh. A term in surgery to express any luxuriant formation of flesh on an ulcer.

2. In morbid anatomy it is applied to a disease of the structure of a part which enlarges, is soft, and excreachial.

3. The name of an order of plants in the Linnæan

3. The name of an order of plants in the Linnean system, belonging to the Cryptogamia class.
Fungus Hematodes. See Hamatoma.
Fungus Ismiarius. See Boletus igniarius.
Fungus Laricis. See Boletus laricis.
Fungus melitersis. See Cynomorium.
Fungus Rosaceus. See Belguar.
Fungus Salicis. The willow fungus. See Boletus

suancolens.

FUNGUS SAMBUCINUS. See Peziza auricula.
FUNGUS VINOSUS. The dark cobweb-like fungus, which vegetates in dry cellars, where wine, ale, and the like are kept. FUNI'CULUS.

(Funiculus; diminutive of funis,

a coid.) A little cord.

FUNICULUS UMBILICALIS. See Umbilical cord.

The funiculus of a seed is a little filament by which the immature seed adheres to the receptacle, seen in Pisum sationum and Lunaria annua.

FULLINE A rope cord.

FU'NIS. A rope or cord.

FUNDEL'SHAPED. See Imbilical cord. FUNDEL'SHAPED. See Infundibiliformis. FURCA. A fork or species of armature of plants. See Aculeus.

See Jouleus.
FURCE LLA INFERIOR. The ensiform cartilage.
FU'RCULA. The clavicle.
FU'RFUR. 1. Bran.
2. A disease of the skin, in which the cuticle keeps
falling off in small scales like bran.
FURFURA'CEOUS. (Furfuraceus; from furfur,

Taking our in small scales like bran.

FURFURA CEOUS. (Furfuraceus; from furfur, bran.) A term applied to the bran-like sediment occasionally deposited in the urine.

FURNACE. Furnus. The furnaces employed in chemical operations are of three kinds:

1. The evaporatory furnace, which has received its name from its use; it is employed to reduce substances into vapour by means of heat, in order to separate the more fixed principles from those which are more volatile.

The reverberatory furnace, which name it has re-ceived from its construction, the flame being prevented from rising; it is appropriated to distillation

3. The forge furnace, in which the current of air is determined by bellows.

FU'ROR. Fury, rage.

FUROR. Furry, rage.
Furor wternivs. (From furo, to be mad, and
uterus, the womb.) See Nymphomania.
FURU'NCULUS. (From furo, to rage: so named
from its heat and inflammation before it suppurates.)
Dothein of Paracelsus. Chiadus; Chioli. A bile. An
inflammation of a subcutaneous gland, known by an inflammatory tumour that does not exceed the size of a

Fusible metal. A combination of three parts of lead, with two of tin, and five of bismuth. It melts at 1970 Fahr.

FUSIBILITY. The property by which metals and minerals assume the fluid state.
FUSIFORMIS. Fusiform. Spindleshaped or to

Applied to parts of plants, as roots, &c. which penetrate perpendicularly into the earth; as the carrot,

penetrate perpendichiany mio the card, as the cards, parsnip, radish, &c.

FUSION. (Fusio f from fundo, to pour out.) A chemical process, by which bodies are made to pass from the solid to the fluid state, in consequence of the application of heat. The chief objects susceptible of this operation are salts, sulphur, and metals. Salts are liable to two kinds of fusion; the one, which is peculiar by the control of the control to saline matters, is owing to water contained in them, and is called aqueous fusion; the other, which arises from the heat alone, is known by the name of igneous

FUSUS. (From funds, to pour out.) Poured out. Applied by Dr. Good to a species of purging, diarrheaf fusa, in which the faces are loose, copious, and of a bright yellow colour.

GABIA'NUM OLEUM. See Petroleum rubrum. GABI'REA. A fatty kind of myrrh, mentioned

GADOLINATE. A hard black-coloured semitransparent mineral from Sweden, composed of silica, yttria, oxide of cerum, and oxide of iron.

GADUS. The name of a genus of fishes, of the jugular tribe. The following species are brought to the European markets for the use of the table.

GADUS CILLARIS. The Baltic torsk. The Icelanders prepare it by salting and drying, when it becomes

ers prepare it by salting and drying, when it becomes an article of commerce, under the name of Tetteling. Its flesh is white, tender, and well flavoured.

Gadus Morrua. The cod-fish. This well-known fish in our markets, abounds in the northern seas. Its flesh is white, tender, and delicious. When salted, it is also well flavoured, and in general esteem.

Gadus Egletinus. The haddock. An inhabitant of the northern seas of Europe. The larger ones are much esteemed during the winter; the smaller ones for summer use. They are of easy digestion. Salted and dried they are eaten at breakfast as a delicacy.

Gadus Minutus. Very small, never exceeding six

or seven inches in length. It is found in the Mediterranean in great abundance, where it is called a capelau, or officier.

GADUS MERLANGUS.. The whiting. A delicate white fish in great abundance in the Irish seas and German Ocean.

German Ocean.

Gadus Pollacius. The whiting pollack, found on the rocky coasts of Britain, and other parts of Europe, and is in great esteem for the table.

Gadus Carreonarlies. The coal-fish. Very abundant on the rocky coasts of the northern parts of this island, about the Orkneys, and the coast of Yorkshire, where they become two and three feet long, and constitute the chief support of the noor.

where they become two and three feet long, and constitute the chief support of the poor.

Gadds Merluccius. The bake. A native of the North and Mediterranean seas, not much eaten, except by the poor when dried, when it is called poor John, or stock-fish.

Gadds Modification. The ling. This grows to the length of five or six feet. It is not so good as the morhua, when fresh; but dried and salted, is much esteemed, and is the common feed of the poor in Cornwall, where it is prepared for exportation. it is prepared for exportation.

The burbot. The flesh of this is

CADUS EFFA. The dumble The first Considered delicious and of easy digestion.

GADUS BROSHE. The torsk. This swarms in the seas about the Shetland islands, and forms a considerable article of commerce, either dried, or salted, or

packed in barrels.

Most of the fishes belonging to the genus Gadus, are edible. Of the preceding enumerated species three of them are common to the waters of the United States, of them are common to the waters of the United States, as the Gadus morhua, Gadus aglefimre, and Gadus merluccius. Besides these, there are found on the stalls of the fishermen in the markets of New-York the following species, viz. Gadus callarias, Gadus tomcodus, Gadus blennoides, Gadus purpureus, Gadus temus, Gadus bongipes, and Gadus purpureus, Gadus temus, Gadus bongipes, and Gadus punctatus. Of these different species, all of which are used as food, the Gadus morhua, or bank cod, and the Gadus callarias are the most abundant. and most estemped. Today the Grans mornal, or osink con, and the Grans callarias, are the most abundant, and most estement. The Gadus merluccius, or hake, is remarkable for its large sound, or swimming-bladder, which is prepared and dried for sale, and forms excellent icthyocolla; And detect of sales, and to the excellent temporate, (which see.) A.]

GALA/CTIA. (From γαλα, lae, milk; οτ γαλακτινος, lacteus, milky.) Galactirrhæa. 1. An excess or overflowing of the milk.

The name of a genus of diseases, Class Genetica; Order, Cenotice, of Good's Nosology. Mislactation, It comprehends five species, viz. Galactia prematura; defectura; deprenatura; defectura; deprenatura; milk.) Aliment pre-

pared of milk.
GALACTIRRHŒ'A. (From γαλα, milk, and ρεω,

GALACTIKRIUE A. (From γαλα, milk, and ρεω, to flow.) See Galactia.

GALACTO 'BES. (From γαλα, milk.) In Hippocrates it signifies both milk-warm and a miky colour.

GALACTO 'PHORUS. (From γαλα, milk, and φερω, to bring or carry.) 1. That which has the property of increasing the secretion of the milk.

φερώ, to thing or tarry, per to in or the milk.
2. The excretory ducts of the glands of the breasts of women, which terminate in the papilla, or nipple, are so called, because they bring the milk to the nipple. GALACTOPOIE TIC. (Galactopoieticus; from γαλα, milk, and ποιεω, to make.) Milk-making, the faculty of making milk: applied to particular foods, plants. Ac.

GALACTOPO'SIA. (From  $\gamma a \lambda a$ , milk, and  $\pi \iota \nu \omega$ , to drink.) The method of curing diseases by a milk

GALA'NGA (Perhaps its Indian name.)

GALANGA. (Ferhaps its Indian name.) See Maranta and Kampferia.
GALANGA MAJOR. See Kampferia galanga.
GALANGA MINOR. See Maranta Galanga.
GALANGAL. See Maranta Galanga.
Galangal, English. See Opperas longus.
GALBANUM. (From chalbanah, Heb.) See Bu-

bon galbanum.

GA'LBEUM. A medical bracelet worn by the Romans.
GA'LBULUS. (The name of the put or little

GALDRUM. A medical bracelet worn by the Romans. GA'LBULUS. (The name of the nut, or little round ball of the cypress-tree.) Gærtner applies this term, the classical name of the cypress fruit, which is term, the classical name of the cypress fruit, which is term, the classical name of the cypress fruit, which is term, the classical name of the cypress fruit, which is the confession of a fertile catkin become succulent, which happens in the Juniper.—Smith.

GALDULUS. (From galbus, yellow.) When the skin of the body is naturally yellow.

GA'LDA. A gum-resin, mentioned by old writers, but totally forgot in the present day, and not to be obtained. Externally, it is of a brown colour, but white within, of a hard lamellated structure, and smells and tastes somewhat like elemi. When burnt it gives out an agreeable odour. It was formerly used as a warm stimulating medicine, and applied in plasters as a strengthener. strengthener.

GA'LEA. GA'LEA. (From γαλη, a cat, of the skin of which it was formerly made.) A helmet. 1. In anatomy, the amnios is so called, because it surrounds the fœtus

like a helmet.

In surgery; a bandage for the head.
 A species of headache is so called, when it surrounds the head like a helmet.

4. In botany it is applied to upper arched lip of ringent and personate corols. See Corolla.

GALEANTHRO'PIA. (This term seems to be from  $ya\lambda\eta$ , a cat, and  $a\nu\theta\rho\omega\pi\sigma_{05}$ , a man.) It is a species of madness, in which a person imagines himself to be a cat, and imitates its manners.

GA'LEGA. (From γαλα, milk: so named because it increases the milk of animals which cat it.) 1. The name of a genus of plants in the Linnman system. Class, Diadelphia; Order, Decandria.

2. The pharmacopæial name of the Ruta capraria.

See Galega officinalis.

GALEGA OFICINALIS. The systematic name of the goat's rue. Galega. Ruta capraria. From the little smell and taste of this plant, Galega leguminibus strictis, erectis; foliolis lanceolatis, striatis, nudis, of Linneus, it may be supposed to possess little virtues. In Italy, the leaves are eaten among salads. GALEGA. A species of senna from the East Indies. The cassia tora of Linneus.

GALEGA. (From content to this.) GALEGA OFFICINALIS The systematic name of the

GALE'NA. (From yaker, to shine.) The name of an ore formed by the combination of lead with sul-

phur. A native sulphuret of lead ore.
GALE'NIC. That practice of medicine which conforms to the rules of Galen, and runs much upon multiplying herbs and roots in the same composition, was thying neros and focus in the same composition, was long called Galenical medicine, after the manner of Galen. It is opposed to chemical medicine, which, by the force of fire, and a great deat of art, fetches out the virtues of bodies, chiefly mineral, into a small

GALE/NUM. (From γαληνη, galena.) A cataplasm; in the composition of which was the galena. In Paulus Ægineta it is considered as anodyne.

in the composition of winch was the gatena. In Faulus Ægineta it is considered as anodyne.

GALENUS, CLAUDUS, was born at Pergamus, in
Asia Minor, in 131. Hie father, Nicon, having instructed him in the rudiments of knowledge, sent him
to attend the best schools of philosophy. Galen soon
displayed his Judgment by selecting what appeared
most rational from the different sects; but he totally
rejected the Epicurean system, which was then in
fashion. About the age of 17, he began his attachment to the science of medicine, over which he was
destined to preside for many centuries with oracular
authority. During his youth, he travelled much, that
he might converse with the most intelligent physicians
of the age, and inform himself concerning the drugs
brought from other countries. He resided several
years at Alexandra, which was then the great resort
of men of science, and the best school of medicine in
the world. At the age of 28, returning to his native
place, he met with distinguished success in practice;
but four years after he attempted to establish himself
but the second of the second of the category and the sets school of medicine in but four years after he attempted to establish himself Here he encountered much opposition from at Rome. at Rome. Here he encountered much opposition from his professional brethren, who stigmatized him as a theorist, and even as a dealer in magic; and though he gained the esteem of several men of learning and rank, yet wanting temper and experience sufficient to maintain a successful contest with a numerous and popular party, he was obliged to return to Pergamus within five years. within five years, under the pretence of avoiding the plague, which then raged at Rome. He was, however, soon after sent for to attend the emperors Marcus Aurelius and Lucius Verus, of whom the latter died; and the former conceived so high an opinion of Galen, that the former conceived so high an opinion of Galen, that subsequently, during his German expedition, he committed his two sons to the care of that physician. These princes were seized with fevers, in which Galen having prognosticated a favourable issue, contrary to the opinion of all his colleagues, and having accordingly restored them to health, he attained an eminence of reputation, which enabled him to defy the power, and finally to ruin the credit, of his former opponents. It is not certain whether he continued at Rome till his death, nor at what, precise nerved this occurred. It is not certain whether he continued at Rome turnis death, nor at what precise period this occurred; but Fabricius asserts that he attained the age of 70, which corresponds to the 7th year of Severus; and his writings appear to indicate, that he was still in that city in the early part of this emperor's reign. The greatest part of Galery's life was spent in the zealous pursuit of knowledge, and especially of every thing which might have the least connexion with medicine; and has in suit to have composed, about 750 different and has assist to have composed, about 750 different and has assist to have composed, about 750 different and has assist to have composed, about 750 different and has assist to have composed. which might have the least connexion with medicine; and he is said to have composed about 750 different essays on such subjects. He appears, however, to have been too much elated with the consciousness of his superior endowments, and to have behaved rather contemptuously towards his brethren; which may have inflamed their opposition to him. The chief object in his weiting among the least three there ject in his writing appears to be to illustrate those of Hippocrates, which he thought succeeding physicians had misunderstood or misrepresented: in this he has displayed great acutenes: and learning, though he has not much increased the stock of practical information.

His example, too, had the unfortunate effect of intro-ducing a taste for minute distinctions and abstract to have a swelling in the legs, and a dropsy; of which speculations; while the diligent observation of nature, speculations; while the diligent observation of nature, which distinguished the father of medicine, fell into neglect. We must therefore regret that the splendour of Galen's talents so completely dazzled his successors, that, until about the middle of the 17th century, his opinion bore almost undivided sway. Numerous editions of his works, in the original Greek, or translated into Latin, have been printed in modern times.

GALEORISS. (From rades, felis, and Bodo, crephus.) See Galeapsis.

GALEORISS. (From rades, good, and otys, vision: so called because it was thought good for the sight, or from yady, a cat, and otys, aspect; the flowers gaping like the open mouth of that animal.) Galeobdolon. See Lamium album.

lon. See Lamium album.
Galeri'culum aponeuroticum. A name in old

writings for the tendinous expansion which lies over

the pericranium.

the pencranum.
Galipot. See Barras.
GA'LIUM. (From yala, milk; some species having the property of coagulating milk.) 1. The name of a genus of plants in the Linnean system. Class, Tetrandria; Order, Monogymia.
2. The pharmacopeial name of the herb cheeserenet, or ladies' bedstraw. See Galium verum.

3. A name for madder.

GALIUM ALBUM. The greater ladies' bedstraw. See

Galium mollugo.

Galium mollugo.

Galium mollugo.

Galium harrie. The systematic name of the goose-grass, and cleavers' bees. Cleavers; Gooseshare; Hayriff. Aparine; Philanthropus; Ampelocarpus; Fus; Asparine; Asperula. This plant is common in our hedges and ditches: Galium-folius octonis lancolatis carinatis scaliris retrorsum aculeatis, geniculis venosis, fructu hispido, of Linneus. The expressed juice has been given with advantage as an aperient and diuretic in incipient dropsies; but the character in which it has of late been chiefly noticed, is that of a remedy against cancer. A chiefly noticed, is that of a remedy against cancer. tea-cupful, internally, gradually increased to half a pint, two or three times a day, and the herb applied, in cataplasm, externally, has been said to cure cancers. Such beneficial results are not confirmed by the experience of others.

Thence of others.

Galium Mollugo. The systematic name of the greater ladies' bedstraw. Galium album. Galium-foliis octonis, ovate-linearibus, subserratis, patentissimis, mucronatis; caule flaccido, ramis patentibus of Linnæus. This herb, with its flowers, is used meof Linneus. This herb, with its flowers, is used me-dicinally. Five ounces or more of the expressed juice, taken every evening upon an empty stomach, is said to

cure epilepsy

GALIUM VERUM. The systematic name of the true ladies' bed-straw, or cheese-rennet. Galium of the pharmacopæias. The tops of this plant, Galium folis octonis, linearibus, sulcatis; ramis floriferis, brevibus, of Linnæus, were long used as an efficacious brevious, of Linneus, were long used as an efficacious medicine in the cure of epileps; but, in the practice of the present day, they are abandoned. Indeed, from the sensible qualities of the plant, little can be expected. The leaves and flowers possess the property of curding milk; it is on that account styled cheese-

GALL. See Bile. GALL SICKNESS. GALL. See Bile.

GALL SICKNESS. (See Febris remittens.) A popular name for the remitting fever occasioned by marsh minsmata, in the Netherlands, and which proved so fatal to thousands of the English soldiers after the capture of Walcheren in the year 1809. Dr. Lind informs us, that at Middleburg, the capital of Walcheren, a sickness generally reigns towards the latter end of August or the beginning of September, which is always most violent after hot summers. It commences after the rains which fall in the end of July; the sooner it begins the longer it continues, and it is only checked by the coldness of the weather. Towards the end of August and the beginning of September, it is a continual burning fever, attended with a vomiting of bile, which is the gall-sickness. This fever, after continuing three or four days, intermits and assumes the form of a double tertian; leaving the patient in a fortnight or perhaps sooner. Strangers, that have been accustomed to breathe a dry, pure air, do not recover so quickly. Foreigners in indigent circumstances, such as the Scots and German soldiers, who were garrisoned (See Febris remittens.) as the Scots and German soldiers, who were garrisoned kinds.

These diseases are the same with the double tertians These diseases are the same with the double tertians common within the tropics. Such as are seized with the gall sickness, have at first some flushes of heat over the body, a loss of appetite, a white, foul tongue, a yellow tinge in the eyes, and a pale colour of the lips. Such as live well, drink wine, and have warm chotics and a good lodging, do not sufter so much during the sickly season as the poor people: however, these diseases are not infectious, and seldom prove mortal to the natives. the natives

Sir John Pringle observes, that the prevailing epi-Sit John Fringie observes, that the prevailing ep-demic of autumn, in all marshy countries, is a fever of an intermitting nature, commonly of a tertian form, but of a bad kind; which, in the dampest places and worst seasons, appears as a double tertian, a remitting, or even an ardent fever. But, however these may vary in their appearance, according to the constitution of in their appearance, according to the constitution of the patient and other circumstances, they are all of a similar nature. For though, in the beginning of the epidemic, when the heat, or rather the putrefaction in the air, is the greatest, they assume a continued or a remitting form; yet, by the end of autumn, they usually terminate in regular intermittents.

But although in the gall sickness there is both a redundance and a depravation of the bile, still the disease cannot, with justice, be said to originate wholly from that cause. It is certain, however, that the disease cannot with justice is a single property of the cannot be seen to be supported by the cannot be supp from that cause. It is certain, however, that the dis-ease may be continued, and the symptoms aggravated by an increased secretion and putrefaction of the bile, occasioned by the fever. In proportion to the coolness of the seasen, or the height and dryness of the ground, this disease is milder, remits and intermits more freely, and removes further from the nature of a continued fever. The higher ranks of people in general are the least liable to the diseases of the marshes; for such

fever. The higher ranks of people in general are the least liable to the diseases of the marshes; for such countries require dry houses, apartments raised above the ground, moderate exercise, without labour, in the sun, or evening damps; a just quantity of fernented liquors, plenty of vegetables and fresh meats. Without such helps, not only strangers but the natives themselves are sickly, especially after hot and close summers. The hardiest constitutions are very little excepted more than others; and hence the British in the Netherlands have always been subject to this fever. By this disease, the British troops were harassed throughout the war, from 1743 to 1747. It appeared in the month of August, 1743: the paroxysms came on in the evening, with great heat, thirst, a violent headache, and othen a delirium. These symptoms lasted most of the night, but abated in the morning, with an imperfect sweat; sometimes with an hamorrhage of the nose, or looseness. The stomach, from the beginning, was disordered with a nausea and sense of oppression; frequently with a bilious and offensive vomiting. If evacuations were either neglected or too sparingly used, the patient fell into a continued fever, vomiting. If evacuations were either neglected of too sparingly used, the patient fell into a continued fever, and sometimes grew yellow, as in jaundice. When the season was further advanced, this fever was are tended with a cough, rheumatic pains, and sizy blood. The officers, being better accommodated than the com-The officers, being better accommodated than the common men, and the cavalry, who had cloaks to keep them warm, were not so subject to it; and others, who belonged to the army, but lay in quarters, were least of all affected; and the less in proportion to their being exposed to heats, night damps, and the other fatigues of the service. In this manner did the remitting fever infest the army for the remaining years of the

fever intest the army for the remaining years of the war: and that exactly in proportion to their distance from the marshy places, of which we have several notable instances in Pringle's observations.

GAIL-BLADDEL. Vesicula fellis. An oblong membraneous receptacle, situated under the liver, to which it is attached in the right hypochondrium. It is composed of three membranes, a common, fibrous, and villous. Its use is to retain the bile which regurgitates from the hepatic duct, there to become thicker, more acrid, and bitter, and to send it through the cystic duct, which proceeds from its neck into the ductus communis choledoclus, to be sent on to the ducdenum.

duodenum.

GALL-STONE. STONE. Calculus biliosus. Biliary con-Hard concrete bodies, formed in the gall-f animals. Of these there are four different bladder of animals.

1. The first has a white colour, and when broken presents crystalline plates, or string, brilliant and white like mica, and having a soft, greasy feel. Sometimes its colour is yellow or greetish; and it has constantly a nucleus of inspissated bile. Its specific gravity is inferior to that of water: Gren found the specific gravity of one 0.803. When exposed to a heat considerably greater than that of boiling water, this crystallized calculus softens and melts, and crystallizes again when the temperature is lowered. It is altogether insoluble in water; but hot alkohol disolves it with facility. Alkohol, of the temperature of 1670, dissolves one-twentieth of its weight of this substance; but alkohol, at the temperature of 600, scarcely dissolves any of it. As the alkohol cools, the matter is deposited in brilliant plates, resembling tale or boracic acid. It is soluble in oil of turpentine. When melted, it has the appearance of oil, and exhales the smell of melted wax; when suddenly heated, it evaporates altogether in a thick smoke. It is soluble in pure alkalies, and the solution has all the properties of a soap. Nitric acid also dissolves it; but it is precipitated unaltered by water.

This matter, which is evidently the same with the

acid also dissolves it; but it is precipitated unaltered by water.

This matter, which is evidently the same with the crystals Cadet obtained from bile, and which he considered as analogous to sugar of milk, has a strong resemblance to spermaceti. Like that substance, it is of an oily nature, and inflammable; but it differs from it in a variety of particulars. Since it is contained in bile, it is not difficult to see how it may crystallize in the gall-bladder if it happen to be more abundant than usual; and the consequence must be a gall-stone of this species. Fourcroy found a quantity of the same substance in the dried human liver. He called it

adipocere.

2. The second species of biliary calculus is of a 2. The second species of biliary calculus is of a round or polygonal shape, often of a gray colour externally, and brown within. It is formed of concentric layers of a matter, which seems to be inspissated bile; and there is usually a nucleus of the white crystalline matter at the centre. For the most part, there are many of this species of calculus in the gall-bladder together; indeed, it is frequently filled with them. The calculi belonging to this species are often light and friable, and of a brownish-red colour. The gall-stones of oxen, used by painters, belong to this species. These

are also adjupocere.

3. The third species of calculi are most numerous of all. Their colour is often deep brown or green; and when broken, a number of crystals of the substance resembling spermaceti are observable, mixed with inspissated bile. The calculi belonging to these three species are soluble in alkalies, in soap ley, in alkohol,

4. Concerning the fourth species of gall-stone, very

and in oils.

4. Concerning the fourth species of gall-stone, very little is known with accuracy. Dr. Saunders tells us, that he has met with some gall-stones insoluble both in alkohol and oil of turpentine; some of which do not flame, but become red, and consume to ashes like charcoal. Haller quotes several examples of similar calculi. Gall-stones often occur in the inferior animals, particularly in cows and hogs; but the biliary concretions of these animals have not hitherto been examined with much attention.

Gall-stones often it equiet; so that until dissection after death, some are never known to exist; but when they are prevented from passing through the gall-ducts, and produce also many inconvenient symptoms, particularly the jaundice.

The diagnostics of this disorder are generally very obscure and uncertain: for other causes produce the same kind of symptoms are a loss of appetite, a sense of fulness in the stomach, sickness, and vonting, languor, inactivity, sleepiness; and, if the obstruction continues for a time, there is wasting of the supernstant pellicle. These disease. The pain excited by an obstruction of the gall-ducts, in consequence of gall-stones passing through them, and this not affecting the pulse, is considered as the leading pathognomonic symptom. This pain, in some, is extremely acute, in other store is only a slight uneashness felt about the region of the liver; but its particular scat is the gall-trone and the form of gall-stone garges, and in the inferior animals, particularly in cover and hogs; but the biliary consumed in dying and indying and i

1. The first has a white colour, and when broken duct, just where it enters the duodenum. In some paresents crystalline plates, or strize, brilliant and white tients there is no yellowness of the skin; in others it quet, just where it enters the duodenum. In some patients there is no yellowness of the skin; in others is exists for several months. There is no disease more painful than this, in some instances; it is as frequent as any other affection of the liver; it admits of much relief from medicine, and is not immediately dangerous to the patient. See Icterus.

GA'LLA. (From Gallus, a river in Bithynia.) A

ous to the patient. See Icterus.

GA'LLA. (From Gallus, a river in Bithynia.) A gall. See Quercus cerris.

GA'LLA TURCICA. See Quercus cerris.

["GALL'LE. Galls. Most species of the oak, when stimulated by the puncture of an insect, and the deposition of its egg, produce a kind of spherical excressence, which serves as the habitation and food of the young larva when hatched. These excrescences are known by the general name of galls, and are produced on various parts of the trees by different insects of the genera Cymips, and Diplolepsis. The best galls, and these which predominate in commerce, are brought from Smyrna, Aleppo, and the neighbouring countries. The Edinburgh College considers them as produced on the Quercus Cerris, a tree growing in the south of Europe. The French traveller, Olivier, informs us, that the Asiatic galls are the product of a species of oak, which he names Quercus infectoria, and that the puncturing insect is the Diplolepsis galia to the traveller of Geoffroy. Both the insect and the gall have been observed in France.

Good galls are round, of a dark colour, and studded with tubercles. They are of various sizes, under that of a cherry. They are hard, brittle, and exhibit an irregular and partly resinous fracture. Their taste is highly astringent, and somewhat bitter and acrid. Those which have been perforated by the insect are of an inferior nuality, their central portion being consumed.

highly astringent, and somewhat bitter and acrid. Those which have been perforated by the insect are of an inferior quality, their central portion being consumed. The chemical constituents, which give to galls their chief value, are tannin and gallic acid. Besides these, they contain, according to Davy, extractive mucilage; according to Braconnol, a concrete, volatile oil; and according to Braconnol, another acid, which he calls ellagic acid. Chemists, however, are not agreed as to their entire composition. It is obvious, that the presence or absence of the larva, as well as its stage of growth, must materially affect the analysis. Most metallic salts produce precipitates with infu-

Most metallic salts produce precipitates with infusion of galls, consisting of the metallic oxides, tannin, sion of gails, consisting of the metanic objects, taming and gallic acid. It is questionable how far the astringency of the galls is affected by such combinations. The sulphuric and muriatic acids, lime water, and the alkaline carbonates, also, occasion precipitates. Gelatin and starch combine immediately with the tanning the combine immediately with the astronomy that is a supplication of the combine immediately with the astronomy that is a supplication of the combine immediately with the astronomy that is a supplication of the combine immediately with the astronomy that is a supplication of the combine immediately with the astronomy that is a supplication of the combine immediately with the tanning the combine immediately with the tanning that is a supplication of the combine immediately with the tanning that is a supplication of the combine immediately with the tanning that is a supplication of the combine immediately with the tanning that is a supplication of the combine immediately with the tanning that is a supplication of the combine immediately with the combine immediately

of the galls.

Galls are among the most powerful vegetable astringents. They are sometimes given internally, in doses of a scruple; but their chief medical use is as a local

with a glass rod. The next day filter the mixture, wash the precipitate with warm water, till this will no longer blacken sulphate of iron; mix the washings with the filtered liquor, evaporate, and the gallic acid will be obtained in fine needled crystals.

These crystals obtained in any of these ways, however, are contaminated with a small portion of ex-tractive matter; and to purify them they may be placed in a glass capsule in a sand-heat, and sub-limed into another capsule inverted over this, and kept

The gallic acid placed on a red-hot iron, burns with flame, and emits an aromatic smell, not unlike that of benzoic acid. It is soluble in 20 parts of cold water, and in three parts at a boiling heat. It is more soluble in alkohol, which takes up an equal weight if heated, d one-fourth of its weight cold.

It has an acido-astringent taste, and reddens tincture of litmus. It does not attract humidity from the

This acid, in its combinations with the salifiable bases, presents some remarkable phenomena. If we pour its aqueous solution by slow degrees into lime, baryles, or strontites water, there will first be formed a barytes, or strontites water, there will first be formed a greenish-white precipitate. As the quantity of acid is increased, the precipitate changes to a violet bue, and eventually disappears. The liquid has then acquired a reddish tint. Among the salts, those only of black oxide and red oxide of iron, are decomposed by the pure gallic acid. It forms a blue precipitate with the first, and a brown with the second. But when this acid is united with tannin, it decomposes aimset all the acid is united with tannin, it decomposes aimost all the

salts of the permanent metals.

Concentrated sulphuric acid decomposes and carbonizes it; and the nitric acid converts it into malic and oxalic acids.

United with barytes, strontian, lime, and magnesia, it forms salts of a dull yellow colour, which are little soluble, but more so if their base be in excess. With alkalies it forms salts that are not very soluble in

Its most distinguishing characteristic is its great affinity for metallic oxides, so as, when combined with tannin, to take them from powerful acids. The more readily the metallic oxides part with their oxygen, the more they are alterable by the gallic acid. To a solution of gold, it imparts a green hue; and a brown precipitate is formed, which readily passes to the metallic state, and covers the solution with a shining golden pellicle. With nitric solution of silver, it produces a similar effect. Mercury it precipitates of an orange-yellow; copper, brown; bismuth, of a lemon colour; lead, white; iron, black. Platina, zinc, tin, cobalt, and manganese, are not precipitated by it.

The gallic acid is of extensive use in the art of dying, as it constitutes one of the principal ingredients in Its most distinguishing characteristic is its great

ing, as it constitutes one of the principal ingredients in all the shades of black, and is employed to fix or im-prove several other colours. It is well known as an

ingredient in ink.

GA'LLICUS. Belonging to the French: applied to the venereal disease. See Lues venerea.

GALLINA'GO. (Diminutive of gallus, a cock.)

The woodcock.

2. An eminence within the prostate gland is called caput callinaginis, from its fancied resemblance to a woodcock's head.

Corrupted from callitrichis, or cal-GALLI'TRICHIS.

litrichum. See Callitriche. GA'LLIUM. See Galium.

GA'LVANISM. A professor of anatomy, in the university of Bologna, named Galvani, was one day making experiments on electricity in his elaboratory near the machine were some frogs that had been flayed, the limbs of which became convulsed every time a spark was drawn from the apparatus. Galvani, surprised at this phenomenon, made it a subject of investigation, and discovered that metals, applied to the erves and muscles of these animals, occasioned powerful and sudden contractions, when disposed in a cer-tain manner. He gave the name of animal electricity to this order of new phenomena, from the analogy that he considered existing between these effects and those produced by electricity

The name animal electricity has been superseded, notwithstanding the great analogy that exists between the effects of electricity and those of Galvanism, in favour of the latter term; which is not only more cold blood, on the contrary, it is more durable.

applicable to the generality of the phenomena, but likewise serves to perpetuate the memory of the dis-

In order to give rise to Galvanic effects in animal bodies, it is necessary to establish a communication between two points of one series of nervous and muscular organs. In this manner a circle is formed, one cular organs. In this manner a circle is formed, one arch of which consists of the animal parts, rendered the subject of experiment, while the other arch is composed of excitatory instruments, which generally consist of several pieces, some placed under the animal parts called supporters, others destined to establish a communication between the latter, are called conductors. To form a complete Galvanic circle, take the thigh of a frog, deprived of its skin; detach the crural nerve, as far as the knee; put it on a piece of zinc; put the muscles of the leg on a piece of silver; then finish the excitatory arch, and complete the Galvanic circle by establishing a communication by means of the two supporters; by means of iron or copper of the two supporters; by means of iron or copper-wire, pewter or lead. The instant that the communiwire, pewter or lead. The instant that the communi-cators touch the two supporters, a part of the animal arch formed by the two supporters will be convulsed. Although this disposition of the animal parts, and of Galvanic instruments, be most favourable to the developement of the phenomena, yet the composition of the animal and excitatory arch may be much varied. Thus contractions are obtained, by placing the two supporters under the nerve, and leaving the muscle out the circle, which proves that nerves essentially constitute the animal arch.

It is not necessary for nerves to be entire in order to produce contractions. They take place whether the organs be tied or cut through, provided there exists a simple contiguity between the divided ends. This proves that we cannot strictly conclude what happens in muscular action, from that which takes place in Galvanic phenomena; since, if a nerve be tied or divided, the muscles on which this is distributed lose the

power of action.

power of action.

The cuticle is an obstacle to Galvanic effects; they are always feebly manifested in parts covered by it. When it is moist, fine, and delicate, the effect is not, entirely interrupted. Humboldt, after having detached the cuticle from the posterior part of the neck and back, by means of two blisters, applied plates of metal to the bare cutis, and, at the moment of establishing a communication, he experienced sharp prickings accompanied with a sero-sanguingous discharge. ings, accompanied with a sero-sanguineous discharge.

Ings, accompanied with a sero-sanguineous discharge. If a plate of zinc be placed under the tongue, and a flat piece of silver on its superior surface, on making them touch each other, an acerb taste will be perceived, accompanied with a slight trembling.

The excitatory arch may be constructed with three, two, or even one metal only, with alloys, amalgams, or other metallic or mineral combinations, carbonated substances, &c. It is observed that metals which are in general the most powerful excitors, induce contractions so much the more as they have an extent of surface. Metals are all more or less excitants; and it is observed that zinc, gold, silver, pewter, are of the highest rank; then copper, lead, nickel, anti-

Galvanic susceptibility, like muscular irritability, is exhausted by too long continued exercise, and is recruited by repose. Immersion of nerves and muscles in alkohol and opiate solutions diminishes, and even destroys, this susceptibility, in the same manner, doubtless, as the immoderate use of these substances in the living man blunts, and induces paralysis in muscular action. Immersion in oxymuriatic acid restores the fatigued parts, to be again acted on by the stimulus.

Animals killed by the repeated discharge of an electric battery, acquire an increase of Galvanic susceptibility; and this property subsists unchanged in animals destroyed by submersion in mercury, pure hydrogen gas, acote, and ammonia; and finally, it is totally annibilated in animals suffocated by the vapour of charcoal.

Galvanic susceptibility is extinct in the muscles of animals of warm blood, in proportion as vital heat is dissipated; sometimes even when life is terminated in dissipated; sometimes even when he is terminated in convulsions, contractility cannot be put into action, although warmth be not completely gone, as though the vital property were consumed by the convulsion, amidst which the animals had expired. In those of

thighe of frogs, long after being separated from every new and important facts have been established, and thighe of frogs, long after being separated from every thing, and even to the instant of incipient putrefaction, are influenced by Galvanic stimuli; doubtless, because irritability, in these animals, is less intimately connected with respiration, and life more divided anong the different organs, which have less occasion to act on each other for the execution of its phenomena. The Galvanic chain does not produce sensible actions (that is, contractions,) until the moment it is completed, by "achiliahing a communication with the narts constiis, contractions,) until the moment it is completed, by establishing a communication with the parts constituting it. During the time it is complete, that is, throughout the whole space of time that the communication remains established, every thing remains tranquil; nevertheless, Galvanic influence is not suspended: in fact, excitability is evidently increased, or dinminished, in muscles that have been long continued in the Galvanic chain, according to the difference of the reciprocal situation of the connecting metals. If silver has been applied to nerves, and zinc to muscles, the irritability of the latter increases in proportion to the time they have remained in the chain. By this method, the thighs of frogs have been revivined in some degree, and afterward become sensible to stimuli, that before had ceased to act on them. By distributing the metals in an inverse manner, applying zinc to nerves and silver to muscles, an effect abso-

tributing the metals in an inverse manner, applying Zinc to nervee and silver to muscles, an effect absolutely contrary is observed; and the muscles that possess the most lively irritability when placed in the chain, seem to be rendered entirely paralytic if they remain long in this situation.

This difference evidently depends on the direction of the Galvanic fluid, determined towards the muscles or

nerves, according to the manner in which these metals are disposed, and this is of some importance to be known for the application of Galvanic means to the

cure of diseases.

cure of diseases.

Galvanic Pile.—Volta's apparatus is as follows:

Raise a pile, by placing a plate of zinc, a flat piece
of wet card, and a plate of silver, successively; then a
second piece of zinc, &c. until the elevation is several
feet high; for the effects are greater in proportion to its
height; then touch both extremities of the pile, at the
same instant, with one piece of iron wire; at the moment of contact, a spark is excited from the extremities of the pile, and lunninous points are often perceived
at different heights, where the zinc and silver come
into mutual contact. The zinc end of this pile appears
to be negatively electrified; that formed by the silver,
on the contrary, indicates marks of positive electricity.

If we touch both extremities of the pile, after having
dipped our hands into water, or, what is better, a sa-

It we touch both extremities of the pile, after having dipped our hands into water, or, what is better, a saline solution, a commotion, followed by a disagreeable prickling in the fingers and elbow, is felt.

If we place in a tube filled with water, and hermetically closed by two corks, the extremities of two wires of the same metal which are in contact at the other extremity, one with the summit, the other with the base of the pile; these ends, even when separated only by the space of a few lines, experience evident changes at the instant the extremities of the pile are changes at the instant the extremities of the pile are touched; the wire in contact with that part of the pile composed of silver becomes covered with bulks of hydrogen gas; that which touches the extremity formed by zinc, becomes oxidized, or gives off oxygen gas. Fourcroy attributes this phenomenon to the decomposition of water by the Galvanic fluid, which abandons the oxygen to the metal that touches the positive ex-tremity of the pile; then conducts the other gas invisi-bly to the end of the other wire there to be disen-

Gagaci. Galvanic Trough.—This is a much more convenient apparatus. Plates of two metals, commonly zinc and copper, are fastened together, and cemented into a wooden trough, so as to form a number of cells; or earthenware troughs with partitions being procured, or earthenware troughs with partitions being procures the metals connected by a slip, are suspended over these, so that in each cell, except at the ends, there is a plate of each metal; then a diluted acid, (usually the sulphuric, nitric, or muriatic mixed with from twelve to twenty parts of water,) is poured into the trough It is necessary that the metals be placed in the same order throughout, or one series will counteract another. The zinc end hecomes negative, the cooper positive:

Galvanism has been found one of the most powerful agents in chemistry: by its influence, platina wire has been metted; gold, silver, copper, and most of the metals, have easily been burnt; the fixed alkalies, and many of the earths, have been made to appear as consisting of a metallic base, and oxygen; compound substances, which were before extremely difficult to decompose, are now, by the aid of Galvanism, easily resolved into their constituents. Galvanism has been found one of the most powerful

The Galvanic influence has been considered by some practitioners as likely to increase the nervous influence in paralyzed and debilitated states of the muscular sys-In paralyzed and debilitated states of the muscular system, and many ingenious ways of applying it have been resorted to; but it does not seem to have been useful. Dr. Ure's observations and experiments on this subject and on Galvanism are highly interesting. The following account of them is extracted from his Chemical Dictionary. "Many experiments," he observes, "have oeen performed, in this country and abroad, on the bodies of criminals, soon after their execution. Vassali, Julio, and Rossi, made an ample set, on several bodies decapitated at Turin. They paid particular attention to the effect of Galvanic electricity on the heart, and other involuntary muscles: electricity on the heart, and other involuntary muscles: electricity on the heart, and other involuntary muscles: a subject of much previous controversy. Volta asserted, that these muscles are not at all sensible to this electric power. Fowler maintained, that they were affected; but with difficulty and in a slight degree. This opinion was confirmed by Vassali; who further showed, that the muscles of the stomach and intestines might thus also be excited. Aldhin, on the contrary, declared, that he could not affect the heart by his most powerful Galvanic arrangements."

Most of the above experiments were however made, either without a voltaic battery, or with piles, feeble in comparison with those now employed. Those incleded performed on the body of a criminal, at Newgate, in which the limbs were violently agitated; the eyes opened and shut; the mouth and jaws worked about, and the whole face thrown into frightful convulsions, were made by Aldini, with, I believe, a considerable a subject of much previous controversy.

were made by Aldini, with, I believe, a considerable

series of voltaic plates

A circumstance of the first moment, in my opinion has been too much overlooked in experiments of this kind,—that a muscular mass through which the Galkind,—that a muscular mass through which the Gal-vanic energy is directly transmitted, exhibits very weak contractile movements, in comparison with those which can be excited by passing the influence along the principal nerve of the muscle. Inattention to this important distinction, I conceive to be the principal source of the slender effects hitherto produced in such source of the slender effects hitherto produced in such experiments on the heart, and other muscles, independent of the will. It ought also to be observed, that too little distinction has been made between the positive and negative poles of the battery; though there are good reasons for supposing, that their powers on muscular contraction are by no means the same. According to Ritter, the electricity of the positive pole augments, while the negative diminishes, the actions of life. Tumefaction of parts is produced by the former; depression by the latter. The pulse of the hand, he says, held a few minutes in contact with the positive pole, is strengthened; that of the neigh con-

hand, he says, held a few minutes in contact with the positive pole, is strengthened; that of the one in contact with the negative is enfeethed: the former is accompanied with a sense of heat; the latter with a feeling of coldness. Objects appear to a positively electrified eye, larger, brighter, and red; while to one negatively electrified, they seem smaller, less distinct, and blush,—colours indicating opposite extremities of the prismatic spectrum. The acid and alkalines tastes, when the tongue is acted on in succession by the two electricities, are well known, and have been ingeniously accounted for by Sir H. Davy, in his admirable Bakerian lectures. The smell of oxymuratic acid, and of ammonia, are said by Ritter to be the opposite odours, excited by the two opposite poles; as a full body of sound and a sharp tone are the corresponding effects on the ears. These experiments require verification.

Consonant in some respects, though not in all, with It is necessary that the metals be placed in the same respects, though not in all, with order throughout, or one series will counteract another. The zinc end becomes negative, the copper positive; and the power is in proportion to the number of the series: and several such troughs may be connected together, so as to form a most powerful apparatus.

From the number of experiments of Davy, many if itst, the form of rada, when projected from a point

positively electrified; secondly, that of a star, or the negative fire, concentrated on a brass ball; thirdly, the Leyden explosion. To each of these forms he assigns a specific action. The first acts as a sedative, allsying morbid activity; the second as a stimulant; and the last has a deobstruent operation, in dispersing chronic tumours. An ample narrative of cases is given in confirmation of these general propositions. My own experience leads me to suppose, that the negative pole of a Volta batter. a Voltaic battery gives more poignant sensations than the positive.

The most precise and interesting researches on the relation between Voltaic electricity and the phenomena of life, are those contained in Dr. Wilson Philip's Disof life, are those contained in Dr. Wilson Philip's Dis-sertations in the Philosophical Transactions, as well as in his experimental Inquiry into the Laws of the

has in his experimental inquiry into the Laws of the Vital Functions, more recently published.

In his earlier researches he endeavoured to prove, that the circulation of the blood, and the action of the involuntary muscles, were independent of the nervous influence. In a late paper, read in January, 1816, he showed the immediate dependence of the secretory

functions on the nervous influence

The eighth pair of nerves distributed to the stomach, and subservient to digestion, were divided by incisions in the necks of several living rabbits. After the operation, the parsley which they ate remained without alteration in their stomachs; and the animals, after evincing much difficulty of breathing, seemed to die of suffocation. But when in other rabbits, similarly treated, the Galvanic power was transmitted along the Breated, the Gaivanic power was transmitted along the nerve, below its section, to a disc of silver, placed closely in contact with the skin of the animal, opposite to its stomach, no difficulty of breathing occurred. The Voltaic action being kept up for twenty-six hours, the rabbits were then killed, and the parsley was found in as perfectly digested a state, as that in healthy rabbits fed at the same time; and their stomachs evolved the smell peculiar to that of a rabbit during digestion. These experiments were several times repeated with similar results.

Hence it appears that the Galvanic energy is capable Hence it appears that the Galvaine energy is Capasie of supplying the place of the nervous influence, so that, while under it, the stomach, otherwise inactive, digests food as usual. I am not, however, wining to adopt the conclusion drawn by its ingenious author, that the identity of Galvanic electricity and nervous influence is established by these experiments. They clearly show a remarkable analogy between these two places is the one may serve as a substitute for the clearly show a remarkable analogy between these two powers, since the one may serve as a substitute for the other. It might possibly be urged by the anatomist, that as the stomach is supplied by twigs of other nerves, which communicate under the place of Dr. Philip's section of the par vagum, the Galvanic fluid may operate merely as a powerful stimulus, exciting those slender twigs to perform such an increase of action, as may compensate for the want of the principal nerve. The above experiments were repeated on dogs, with like results: the hattery never before a sutron, as with like results; the battery never being so strong as to occasion painful shocks.

The removal of dyspnæa, as stated above, led him to try Galvanism as a remedy in asthma. By transmitto try Galvanism as a remedy in asthma. By transmitting its influence from the nape of the neck to the pit
of the stomach, he gave decided relief in every one of
twenty-two cases, of which four were in private practice, and eighteen in the Worcester Infirmary. The
power employed varied from ten to twenty-five pairs.
The general inferences deduced by him from his multiplied experiments, are, that Voltaic electricity is
capable of effecting the formation of the secreted fluids,
when replied to the blocd in the same review his

when applied to the blood in the same way in which the nervous influence is applied to it; and that it is capable of occasioning an evolution of caloric from arterial blood. When the lungs are deprived of the nervous influence, by which their function is impeded, and even destroyed, when digestion is interrupted, by withdrawing this influence from the stomach, these windrawing this influence from the slomach, these two vital functions are renewed by exposing them to the influence of a Galvanic trough. 'Hence,' says he, 'Galvanism seems capable of performing all the functions to the nervous influence in the animal economy; but obviously it cannot excite the functions of animal life, unless when acting on parts endowed with the living arcine! living principle.

These results of Dr. Philip have been recently confirmed by Dr. Clarke Abel, of Brighton, who employed, in one of the repetitions of the experiments, a com-

paratively weak, and in the other a considerable power of Galvanism. In the former, although the Gaivanism was not of sufficient power to occasion evident digestion of the food, yet the efforts to vomit, and the difficulty of breathing, constant effects of dividing the eighth pair of nerves, were prevented by it. These the eight pair of nerves, were prevented by it. The respiration of the animal, 'he observes, 'continued quite free during the experiment, except when the disengagement of the nerves from the tin-foil rendered a abort suspension.

experiment, except when the disengagement of the nerves from the tin-foil rendered a short suspension of the Galvanism necessary during their readjustment.' The nongalvanized rabbit breathed with difficulty, wheezed audibly, and made frequent attempts to vomit.' In the latter experiment, in which the greater power of Galvanism was employed, digestion went on as in Dr. Philip's experiments.— Jour. Sc. ix. Gallois, an eminent French physiologist, had endeavoured to prove, that the motion of the heart depends entirely upon the spinal marrow, and immediately ceases when the spinal marrow is removed or destroyed. Pur. Philip appears to have refuted this notion by the following experiments. Rabbits were rendered insensible by a blow on the occiput; the spinal marrow and brain were then removed, and the respiration kept up by artificial means; the motion of the heart, and the circulation, were carried on as usual. When spirit of wine or opium was applied to the spinal marrow or brain, the rate of the circulation was accelerated.

A middle-sized, athletic, and extremely muscular A madic-sized, atthetic, and extremely muscular man, about thirty years of age, was the subject of the following highly interesting experiments. He was suspended from the gallows nearly an hour, and made no convulsive struggle after he dropped; while a thief, executed along with him, was violently agitated for a considerable time. He was brought to the anatomical theatre of our university in about ten mi-nutes after he was cut down. His face had a per-fectly natural aspect, being neither livid nor tumefied; and there was no dislocation of his neck.

Dr. Jeffray, the distinguished professor of anatomy, Dr. Jeffray, the distinguished professor of anatomy, having on the preceding day requested me (says Dr. Ure) to perform the Galvanic experiments, I sent to his theatre, with this view, next morning, my minor Voltaic battery, consisting of 270 pairs of four-inch plates, with wires of communication, and pointed metallic rods with insulating handles, for the more commodious application of the electric power. About five minutes before the police officers arrived with the body, the hattery was charged with a dilute nitro-sulphuric acid, which speedily brought it into a state of intense action. The dissections were skilfully executed by Mr. Marshal, under the superintendence of the professor.

the professor

Exp. 1. A large incision was made into the nape of the neck, close below the occiput. The posterior half of the atlas vertebra was then removed by bone forof the allas vertebra was then removed by bone forceps, when the spinal marrow was brought into view. A profuse flow of liquid blood gushed from the wound, inundating the floor. A considerable incision was at the same time made in the left hip, through the great gluteal muscle, so as to bring the sciatic nerve into sight; and a small cut was made in the heel. From neither of these did any blood flow. The pointed rod connected with one end of the battery, was now placed in contact with the spinal marrow, while the other rod was applied to the sciatic nerve. Every muscle of the body was immediately agitated with convulsive movements, resembling a violent shuddering from cold. The left side was most powerfully convulsed at each renewal of the electric contact. On moving the second rod from the hip to the heel, the moving the second rod from the hip to the heel, the knee being previously bent, the leg was thrown out with such violence as nearly to overturn one of the assistants, who in vain attempted to prevent its ex

tension.

Exp. 2. The left phrenic nerve was now laid bare at the outer edge of the sterno-thyroideus muscle, from three to four inches above the clavicle; the cutaneous incision having been made by the side of the sterno-cleido mastoideus. Since this nerve is distributed to the diaphragm, and since it communicates with the heart through the eighth pair, it was expected, by transmitting the Galvanic power along with it, that the respiratory process would be renewed. Accord-ingly, a small incision having been made under the

cartilage of the seventh rib, the point of the one insu- | plans of administering Voltaic electricity, hitherto pur carinage of the seventa rio, the point of the one rasulating rod was brought into contact with the great head of the diaphragm, while the other point was applied to the phrenic nerve in the neck. This muscle, the main agent of respiration, was instantly contracted, but with less force than was expected. Satisfied, from ample experience on the living body, that more power-ful effects can be produced in Galvanic excitation, by leaving the extreme communicating rods in close contact with the parts to be operated on, while the electric chain or circuit is completed by running the end of the wires along the top of the plates in the last trough of either pole, the other wire being steadily immersed in the last cell of the opposite pole, I had immediate recourse to this method. The success of it was truly wonderful. Full, nay, laborious breathing, instantly commenced. The chest heaved, and fell; the belly was protruded, and again collapsed, with the relaxing and retiring diaphragm. This process was continued, without interruption, as long as I continued the elec-

without interruption, as long as I continued the electric discharges.

In the judgment of many scientific gentlemen who witnessed the scene, this respiratory experiment was perhaps the most striking ever made with a philosophical apparatus. Let it also be remembered, that for full half an hour before this period, the body had been well nigh drained of its blood, and the spinal marrow severely lacerated. No pulsation could be perceived meanwhile at the heart or wrist; but it may be supposed, that but for the evacuation of the blood,—the essential stimulus of that organ,—this phenomenon, might also have occurred.

inight also have occurred.

Exp. 3. The supra-orbital nerve was laid bare in the forehead, as it issues through the supra-ciliary fora-men, in the eyebrow: the one conducting rod being applied to it, and the other to the heel, most extraor-dinary grimaces were exhibited every time that the celectric discharges were exhibited every time that the electric discharges were made, by running the wire in my hand along the edges of the last trough, from the 290th to the 270th pair of plates: thus fifty shocks, each greater than the preceding one, were given in two seconds. Every muscle in his countenance was simultaneously thrown into fearful action; rage, horror, despair, anguish, and ghastly smiles, united their hideous expression in the murderer's face, surpassing far the wildest representations of a Fuseli or a Kean. At this period several of the spectators were forced to leave the apartment from terror or sickness, and one

leave the apartment from terror or sickness, and one gentleman fainted.

Ezp. 4. The last Galvanic experiment consisted in transmitting the electric power from the spinal marrow to the ulnar nerve, as it passes by the internal condyle at the elbow: the fingers now moved nimbly, like those of a violin performer; an assistant, who tried to close the fist, found the hand to open forcibly, in spite of his efforts. When the one rod was applied to a slight incision in the tip of the forefinger, the fist being previously clenched, that finger extended instantly; and from the convulsive agitation of the arm, he seemed to point to the different spectators, some of whom thought he had come to life.

About an hour was spent in these operations.

About an hour was spent in these operations.

In deliberating on the above Galvanic phenomena, we are almost willing to imagine, that if, without cutting into and wounding the spinal marrow and bloodting into and wounding the spinal marrow and blood-vessels in the neck, the pulmonary organs had been set a-playing at first, (as I proposed,) by electrifying the phrenic nerve, (which may be done without and dangerous incision,) there is a probability that life might have been restored. This event, however little might have been restored. This event, however little desirable with a murderer, and perhaps contrary to law, would yet have been pardonable in one instance, as it would have been highly honourable and useful to science. From the accurate experiments of Dr. Philip it appears, that the action of the diaphragm and lungs and the second of the diaphragm and lungs are proported to the expended action. is indispensable towards restoring the suspended action of the heart and great vessels, subservient to the circulation of the blood.

lation of the blood.

It is known, that cases of deathlike lethargy, or suspended animation, from disease and accidents, have occurred, where life has returned, after longer interruption of its functions than in the subject of the preceding experiments. It is probable, when apparent death supervenes from sufficiation with noxious gases; Acc. and when there is no organic lession, that a judi-ciously directed Galvanic experiment will, if any thing will, restore the activity of the vital functions. The

plans of administering Voltaic electricity, hitherto nur sued in such cases, are, in my humble apprehension, very defective. No advantage, we perceive, is likely to accrue from passing electric discharges across the chest, directly through the heart and lungs. On the principles so well developed by Dr. Philip, and now illustrated on Clydesdale's body, we should transmit along the channel of the nerves, that substitute for nervous influence, or that power which may perchance awaken its dormant faculties. Then, indeed, fair hopes want be formed of deriving attensive henself from Galawaken its dormant faculties. I nen, indeed, fait hopes may be formed of deriving extensive benefit from Gal-vanism; and of raising this wonderful agent to its ex-pected rank among the ministers of health and life to man.

I would, however, heg leave to suggest another nervous channel, which I conceive to be a still readier and more powerful one, to the action of the heart and nervous channel, which I conceive to be a still readier and more powerful one, to the action of the heart and lungs, than the phrenic nerve. If a longitudinal incision be made, as is frequently done for aneurism, through the integuments of the neck at the outer edge of the sterno-mastoideus muscle, about half way between the clavicle and angle of the lower jaw; then, on turning over the edge of this muscle, we bring into view the throbbing carotid, on the outside of which, the par vagum, and great sympathetic nerve, lie together in one sheath. Here, therefore, they may both be directly touched and pressed by a blunt metallic conductor. These nerves communicate directly, or indirectly, with the phrenic; and the superficial nerve of the heart is sent off from the sympathetic.

Should, however, the phrenic nerve be taken, that of the left side is the preferable of the two. From the position of the heart, the left phrenic differs a little in its course from the right. It passes over the pericar dium, covering the apex of the heart.

While the point of one metallic conductor is applied to the nervous cords above described, the other knob ought to be firmly pressed against the side of the person, immediately under the cartiliags of the sevent.

ought to be firmly pressed against the side of the person, immediately under the cartilage of the seventh rib. The skin should be moletened with a solution of common salt, or, what is better, a hot saturated solution of sal-ammoniac, by which means, the electric energy will be more effectually conveyed through the cuticle so as to complete the Voltaic chain.

To lay bare the nerves above described, requires, as I have stated, no formidable incision, nor does it de-I have stated, no formitation little state and mand more anatomical skill, or surgical dexterity, than every practitioner of the heating art ought to possess. We should always bear in mind, that the subject of experiment is at least insensible to pain; and that life is at stake, perhaps irrecoverably gone. And assuredis at stake, perhaps irrecoverably gone. And assured-ly, if we place the risk and difficulty of the operations in competition with the blessings and glory consequent on success, they will weigh as nothing, with the intelligent and humane. It is possible, indeed, that two small brass knobs, covered with cloth moistened with solution of sal ammoniac, pressed above and below, on the place of the nerve, and the diaphragmatic region, may suffice, without any surgical operation: it may first be tried.

Immersion of the body in cold water accelerates greatly the extinction of life arising from suffocation; and hence less hopes need be entertained of recovering drowned persons after a considerable interval, than when the vital heat has been suffered to continue with when the vital heat has been subtreed to continue with little abatement. None of the ordinary practices judiciously enjoined by the Humane Society, should ever on such occasions be neglected. For it is surely culpable to spare any pains which may contribute, in the slightest degree, to recall the fleeting breath of man to its photished reportion. cherished mansion.

My attention has been again particularly directed to this interesting subject, by a very flattering letter which I lately received from the learned Secretary of the Royal Humane Society.

In the preceding account, I had accidentally omitted to state a very essential circumstance relative to the electrization of Clydesdale. The paper indeed was very rapidly written, at the busiest period of my public prelections, to be presented to the society, as a substitute for the essay of an absent friend, and was sent off to London the morning after it was read.

The positive pole or wire connected with the zinc end of the battery, was that which I applied to the nerve; and the negative, or that connected with the copper end, was that which I applied to the muscles. This is a matter of primary importance, as the following experiments will prove.

Prepare the posterior limbs of a frog for Voltaic elecrization, leaving the crural nerves connected, as usual, to a detached portion of the spine. When the excitability has become nearly exhausted, plunge the limbs into the water of one wine-glass, and the crural nerves into the water of one wine-glass, and the crural nerves with their pendent portion of spine, into that of the other. The edges of the two glasses should be almost in contact. Then taking a rod of zinc in one hand, and a rod of silver (or a silver tea-spoon) in the other, plunge the former into the water of the limbs' glass, and the latter into that of the nerves' glass, without touching the frog itself, and gently strike the dry parts of the bright metals together. Feeble convulsive movements, or mere twitching of the fibres, will be perceived at every contact. Reverse now the position of the metallic rods, that is, plunge the zinc into the nerves' glass, and the silver into the other. On renewing the contact of the dry surfaces of the metal now. ing the contact of the dry surfaces of the metal now. very lively convulsions will take place; and if the limbs are skilfully disposed in a narrowish conical glass, they will probably spring out to some distance. This interesting experiment may be agreeably varied in the following way, with an assistant operator: let that person seize, in the moist fingers of his left hand, the spine and nervous cords of the prepared frog; and the spine and nervous coras of the prepared riog; and in those of the right hand, a silver rod; and let the other person lay hold of one of the limbs with his right hand, while he holds a zinc rod in the moist fingers of the left. On making the metallic contact, feeble convulsive twitchings will be perceived as before. Holdvuisive twiterings will be perceived as before. Holding still the frog as above, let them merely exchange the pieces of metal. On renewing the contacts now, lively movements will take place, which become very conspicuous, if one limb be held nearly horizontal, while the other hangs freely down. At each touch of the Voltaic pair, the drooping limb will start up, and strike the hand of the experimenter.

It is evident, therefore, that for the purposes of re-

suscilating dormant irritability of nerves, or contrac-tility of their subordinate muscles, the positive pole must be applied to the former, and the negative to the

must be applied to the former, and the negative to latter." — Ure's Chemical Dictionary.

Gama'ndra. See Stalagmitis.

GAMBIENSE GUMMI. See Kino.

GAMBOGE. See Stalagmitis.

GAMBO'GIA. See Cambogia and Stalagmitis.

GAMBO'GIA. See Statagmitis.
GAMBO'GIA. See Cambogia and Statagmitis.
GAMBO'DEA. See Statagmitis.
GA'MMA. (From the letter I, gamma, which it resembles.) A surgical instrument for cauterizing a

GAMPHE'LE. (From yautos, crooked:) The cheek. The jaw.

Ga'noamon. (From γαγγαμη, a fishing-net, which it was said to resemble.) 1. A name of the omentum.
2. Some call the contexture of nerves about the

navel by this name. GA'NGIJION. ( $\Gamma a\gamma\gamma\lambda_{(0)}$ , a knot.) A knot. 1. In anatomy it is applied to a natural knot-like enlargement in the course of a nerve.

2. In surgery it is an encysted tumour, formed in the sheath of a tendon, and containing a fluid like the white of an egg. It most frequently occurs on the back of the hand or foot.

GANGRENE. (Γαγγραινα; from γραω, to feed upon: so named from its eating away the flesh.)

Gangrena. See Mortification.
Garras. An Arabic name for the disorder of the

eyes. See Egylops.
GARCI'NIA. (So called in honour of Dr. Garcin,
who accurately described it.) The name of a genus
of plants in the Linnwan system. Class Dodecandria;

Order, Monogynia.

GARCHIA MANGOSTANA. The systematic name of the mangosteen tree. The mangosteen is a fruit about the size of an orange, which grows in great abundance on this tree in Java and the Molucca islands. Acon this tree in Java and the Molucca islands. Ac-cording to the concurring testimonies of all travellers, it is the most exquisitely flavoured, and the most salu-brious of all fruits, it being such a delicious mixture of the tart and sweet. The flesh is juicy, white, almost transparent, and of a more delicate and agreeable flavour than the richest grape. It is eaten in almost every disorder, and the dried bark is used medicinally in dysentries and tenesmus, and a strong decoction of it is much esteemed as a gargle in ulcerated sore tiroats.

GA'RGALE. Gargalos; Gargalismos. Γαργαλη. Irritation, or stimulation.

GARGAREOM. (Hebrew.) The uvula, or glandu-lous body, which hange down into the throat. GARGARISM. See Gargarisma. GARGARISMA. "(Gargarisma, tais. n.; and Gargarismus, i. m.; and Gargarismum, i. n.; from yapyapi\$\mathcal{G}\$, to gargle.) A gargle, or wash for the throat.

throat.

GARGARISMUM. See Gargarisma.

GA'RGATHUM. A bed on which lunatics, &c. were formerly confined.

GARGLE. See Gargarisma.

GARLIC. See Allium.

GARNET. Professor Jameson divides this mineral game in these appears.

GARNET. Professor Jameson divides this mineral genus into three species; the pyramidal garnet, dode-cahedral garnet, and prismatic garnet.

1. The Pyramidal contains three sub-species; Vesuvian, Egeran, Gehlenite.

2. The Dodecahedral contains nine sub-species;

Pyreneite, Grossulare, Melanite, Pyrope, Garnet, Allo-chroite, Colophonite, Cinnamon-stone, Helvin.

3. The Prismatic; the grenatite. Of the garnet

proper, there are two species:

1. The precious or noble garnet.
2. The common garnet.

2. The common garnet.
GARNET, Thomas, was born in 1766, at Casterton in Westmoreland. After serving his time to a surgeon and apothecary, he went to study at Edinburgh, where he took his degree at twenty-two, and then attended the London hospitals for two years. In 1790 he settled at Bradford, and began to give private lectures on Philosophy and Chemistry; and here he wrote his Treatise on the Horley Green Spa. But in the following year he removed to Knaresborough, and soon after published an Analysis of the different Waters of Harrowgate, which place he visited during the summer published an Analysis of the different Waters of Harrowgate, which place he visited during the summer season. About this period he formed the design of going to America; but while waiting to take his passage at Liverpool, he was solicited to deliver some lectures there, which were so favourably received, that he was induced to repeat his course at various other places; and at length the professorship at Anderson's Institution in Glasgow was offered him, where he began lecturing in 1796. Two years after he made a tour to the Highlands, of which he subsequently published an account. On the formation of the Royal Institution in London, he was invited by Count Rumford stitution in London, he was invited by Count Rumford to become the lecturer there; he accepted the appointment, and the room was crowded with persons of the ment, and the room was crowded with persons of the first distinction and fashion. He then turned his thoughts more seriously to the practice of his profession, as likely to afford the most permanent support; but his prospects were cut short by death about the middle of the year 1802. A posthumous volume, entitled "Zoonomia," was published for the benefit of his feather than the property of the person of t

GA'RON. Papop. A kind of pickle prepared of fish; at first it was made from a fish, which the Greeks call Garos; but the best was made from mackarel. Among the moderns, garum signifies the liquor in which fish is pickled.

GAROU. See Daphne waiding

GAROU. See Daphne gnidium.
GAROU. See Daphne gnidium.
GARROTI'LLUS. See Eugenis caryophyllata.
GARROTI'LLO. (From garottar, to bind closely.
Spanish.) A name of the cynanche maligna, from its sense of strangulation, as if the throat were bound with

GAS. (From Gascht, German, an eruption of wind.) Gaz. Elastic fluid; Aëriform fluid. This term is applied to all permanently elastic fluids, simple or compound, except the atmosphere, to which the term air is appropriated.

Some of the gases exist in nature without the aid of art, and may therefore be collected; others, on the

art, and may interfere be collected; others, on the contrary, are only producible by artificial means.

All gases are combinations of certain substances, reduced to the gaseous form by the addition of caloric. It is, therefore, necessary to distinguish in every gas, the matter of heat which acted the part of a solvent, and the substance which forms the basis of the gas and the substance which forms the basis of the gas and the substance which forms the basis of the gas and the substance which forms the basis of the gas are contracted in the substance of the gas are contracted i

Gases are not contained in those substances from

Gases are not contained in those substances from which we obtain them in the state of gas, but owe their formation to the expansive property of caloric. Formation of Gases.—The different forms under which bodies appear, depend upon a certain quantity of caloric, chemically combined with them. The very 381

formation of gases corroborates this truth. Their production totally depends upon the combination of the particular substances with caloric; and though called permanently elastic, they are only so because we can-not so far reduce their temperature, as to dispose them to part with it; otherwise they would undoubtedly be-come fluid or solid.

come fluin or sound.

Water, for instance, is a solid substance in all degrees below 329 of Fahrenheit's scale; above this temperature it combines with caloric, and becomes a fluid. It retains its liquid state under the ordinary pressure of the atmosphere, till its temperature is augmented to 2129. It then combines with a larger portion of caloric, and is converted, apparently, into gas, or at least into elastic vapour; in which state it would continue, if the temperature of our atmosphere was above 2129. Gases are therefore solid substances, between the particles of which a repulsion is established by the quantity of caloric. quantity of caloric.

quantity of caloric.

But as in the gaseous water or steam, the caloric is retained with but little force, on account of its quitting the water when the vapour is merely exposed to a lower temperature, we do not admit steam among the class of gases, of permanently elastic affiform fluids. In gases, caloric united by a very forcible affinity, and no diminution of temperature, or increase of pressure, that has ever yet been effected, can separate it from them. Thus the air of our atmosphere, in the most intense cold, or when very strongly compressed, still remains in the affiliorm state; and hence is derived the essential character of gases, namely, that they shall remain wereform, under all variations of they shall remain aëriform, under all variations of

they shall remain bergorin, under an variations of pressure and temperature.

In the modern nomenclature, the name of every substance existing in the aëriform state, is derived from its supposed solid base; and the term gas is used to denote its existence in this state.

In order to illustrate the formation of gases, or to

In order to illustrate the formation of gases, or to show in what manner caloric is combined with them, the following experiment may serve. Put into a retort, capable of holding half a pint of water, two ounces of muriate of soda (common salt): pour on it half its weight of sulphuric acid, and apply the heat of a lamp; a great quantity of gas is produced, which might be collected and retained over mercury. But to serve the purpose of this experiment, let it pass through a relass receiver, having two openings, into one of which the purpose of this experiment, let it pass through a glass receiver, having two openings, into one of which the neck of the retort passes, while, from the other, a bent tube proceeds, which ends in a vessel of water. Before closing the apparatus, let a thermometer be in-cluded in the receiver, to show the temperature of the gas. It will be found that the mercury in the thermometer will rise only a few degrees: whereas the water in the vessel which receives the bent tube, will soon

become boiling hot.

Explanation.—Common salt consists of muriation. Explanation.—Common salt consists of muriatic acid, united to soda; on presenting sulphuric acid to this union, a decomposition takes place, especially when assisted by heat. The sulphuric acid unites by virtue of its greater affuity to the soda, and forms sulphate of soda, or Glauber's salt; the muriatic acid becomes therefore disengaged, and takes the gaseous form in which it is capable of existing at the common temperature. To trace the caloric during this experiment, as was our object, we must remark, that it first flows from the lamp to the disengaged muriatic acid. ment, as was our offect, we must remark, that it first flows from the lamp to the disengaged muriatic acid, and converts it into gas; but the heat thus expended is chemically united, and therefore not appreciable by the thermometer. The caloric, however, is again evolved, when the muriatic acid gas is condensed by the water, with which it forms liquid muriatic

In this experiment we therefore trace caloric in a chemical combination producing gas; and from this union we again trace it in the condensation of the gas,

producing sensible heat.

Such, in general, is the cause of the formation and fixation of gases. It may be further observed, that cach of these fluids loses or suffers the disengagement of different quantities of hear, as it becomes more or less solid in its new combination, or as that combination is capable of retaining more or less spe-

The discovery of aeriform gaseous fluids has occastoned the necessity of some peculiar instruments, by means of which those substances may be conveniently collected and submitted to examination. The print the receiving vessel were large,

cipal ones for that purpose are styled the pneumatis

cipal ones for that purpose are styled the pneumalis apparatus.

The pneumatic trough is made either of wood or strong sheet iron, tinned, japanned, or painted. A trough of about two feet long, sixteen inches wide, and fifteen high, has been found to be sufficient for most experiments. Two or three inches below its brim, a horizontal-shelf is fastened, in dimension about half or one-third part of the width of the trough. In this shelf are several holes: these boles must be made in the centre of a small excavation, shaped like a funnel, which is formed in the lower part of the shelf. This trough is filled with water sufficient to cover the shelf to the height of an inch.

The use of this shelf is to support receivers, jars, or bell-classes, which, being previously filled with water,

The use of this shell is to support receivers, jack, or bell-glasses, which, being previously filled with water, are placed invertedly, their open end turned down upon the above-mentioned holes, through which the gases, conveyed there and directed by means of the tunnel-shaped excavations, rise in the form of air-

iunnel-shaped excavations, rise in the form of alrbubbles into the receiver.

When the gaseous fluids are capable of being absorbed by water, as is the case with some of them, the
trough must be filled with mercury. The price and
gravity of this fluid make it an object of convenience
and economy, that the trough should be smaller than
when water is used.

A mercurial trough is best cut in marble, free-stone,
or a solid block of wood. A trought bout twelve
inches long, three inches wide, and four deep, is sufficient for all private experiments.

Method of collecting gases, and transferring them
from one vessel to another.—If we are desirous of
transmitting air from one vessel to another, it is necessary that the vessel destined to receive it be full of

transmitting air from one vessel to another, it is neces-sary that the vessel destined to receive it be full of water, or some fluid heavier than air. For that pur-pose, take a wide-mouthed bell-glass, or receiver; plunge it under the water in the trough, in order to fill it; then raise it with the mouth downwards, and place it on the shelf of the trough, so as to cover one or more of the holes in it.

more of the holes in it.

It will now be full of water, and continue so as long as the mouth remains below the surface of the fluid in the cistern; for, in this case, the water is sustained in the vessel by the pressure of the atmosphere, in the same manner as the mercury is sustained in the barometer. It may without difficulty be imagined, that if common air (or any other fluid resembling common air in lightness and elasticity) be suffered to enter the inverted vessel filled with water, it will rise to the inverted vessel filled with water, it will rise to the inverted vessel filled with water, it will rise to the upper part, on account of its levity, and the surface of the water will subside. To exemplify this, take a glass, or any other vessel, in that state which is usually called empty, and plunge it into the water with its mouth downwards: scarce any of it will enter the glass, because its entrance is opposed by the elasticity of the included air; but if the vessel be turned with its mouth upwards, it immediately fills, and the air rises in bubbles to the surface. Suppose this operation be performed under one of the jars or receivers, which are filled with water, and placed upon the perforated shelf, the air will ascend in bubbles as before, but, instead of escaping, it will be caught in the upper part of the

the air will ascend in bubbles as before, but, instead of escaping, it will be caught in the upper part of the jar, and expel part of the water it contains. In this manner we see that air may be emptied out of one vessed into another by a kind of inverted pouring, by which means it is made to ascend from the lower to the upper vessel. When the receiving vessel has a narrow neck, the air may be poured, in a similar manner, through an inverted funnel, inserted in its month. mouth

If the air is to be transferred from a vessel that is stopped like a bottle, the bottle must be unstopped, with its orifice downwards in the water; and then inclined in such a manner that its neck may come under the perforated excavation of the shelf. The gas will esperforated excavation of the shell. The gas will escape from the bottle, and passing into the vessel destined to receive it, will ascend in it in the form of bubbles.

In whatever manner this operation is performed, the necessity of the excavation in the lower part of the the necessity of the excavation in the rower partor the shelf may be readily conceived. It is, as mentioned before, destined to collect the gas which escapes from the vessel, and direct it in its passage towards the ves-sel adapted to receive it. Without this excavation, the gas, instead of proceeding to the place of its destina-tion, would be dispersed and lost, unless the mouth of

The vessels, or receivers, for collecting the disengaged gases, should be glass cylinders, jars, or bell-glasses of various sizes; some of them should be open at both ends, others should be fitted with necks at the top, ground perfectly level, in order that they may be stopped by ground flat pieces of metal, glass, slate, &c.; others should be furnished with ground stoppers. Some should be graduated into cubic inches, and sub-divided into decimal or other equidistant parts. Besides these, common glass-bottles, tumblers, &c. may be used.

Clussification of Gases.—All the elastic aeriform fluids with which we are hitherto acquainted, are generally divided, by systematic writers, into two classes, namely: those that are respirable and capable of maintaining combustion, and those that are not re-spirable and incapable of maintaining combustion. This division, indeed, has its advantage, but the term This division, indeed, has its advantage, but the term respirable, in its physiological application, has been very differently employed by different writers. Sometimes by the respirability of a gas has been meant its power of supporting life, when repeatedly applied to the blood in the lungs. At other times all gases have been considered respirable which were capable of introduction into the lungs by voluntary efforts, without any relation to their vitality. In the last case, the word respirable seems to us most properly employed, and in this sense it is here used.

and it has sense it is here used.

Non-respirate gases are those which, when applied to the externation was of respiration, stimulate the muscles of the englown such a manner as to keep it perfectly close on the gases, blus preventing the smallest particle of gas from entering into the bronchia,

in spite of voluntary exertions.

Of respirable gases, or those which are capable of being taken into the lungs by voluntary efforts, only one has the power of uniformly supporting life, namely, atmospheric air; other gases, when respired, sooner or later impair the health of the human constitution, or perhaps occasion death; but in different modes.

Some gases effect no positive change in the blood; animals immersed in it die of a disease produced by the privation of atmospheric air, analogous to that occasioned by their submersion in water.

Others again produce some positive change in the blood, as appears from the experiments of Dr. Beddees and Sir Humphrey Davy. They seem to render does and Sir Humphrey Davy. They seem to render it incapable of supplying the nervous and muscular fibres with principles essential to sensibility and irrita-These gases, therefore, destroy animal life on a different principle

tris obvious, therefore, that the above classification is not very precise, but capable of misleading the student without proper explanation.

Gas, carbonic acid. See Carbonic acid.

Gas, heavy curbonated hydrogen. See Carburetted

Gas, hepatic. See Hydrogen gas, sulphuretted.

Gas, hydrogen. See Hydrogen Gas, light carbonated hydrogen See Carburetted

hydrogen gas. Gascous oxide of carbon. See Carbon, gaseous ox-

GA'STRIC. (Gastricus; from γαςηρ, the sto-

mach.) Appertaining to the stomach.

GASTRIC ARTERY. Arteria gastrica. The right or greater gastric artery, is a branch of the hepatic; the lett, or smaller, a branch of the splenic.

GASTRIC JUICE. Succus gastricus. A fluid separated by the stomach. See Digestion.

GASTRINUM. Potassa. GASTRIUM: Foldssa.

GASTRITIS. (From γαςηρ, the stomach.) Inflammation of the stomach. A genus of disease in the class. Pyrexia, and order Phlegmasia of Cullen. It is known by pyrexia, anxiety, heat, and pain in the epigastrium, increased when any thing is taken into the stomach, vomiting, hiccup, pulse small and hard, and prostration of strength. There are two species:

Gastritis phlegmonodea, with acute pain and se-

vere fever.

2. Gastritis crythematica, when the pain and fever are slighter, with an erysipelatous redness appearing in the fauces

Gastritis is produced by acrid substances of various kinds, such as arsenic, corrosive sublimate, &c. taken into the stomach, as likewise by food of an improper parietes. See Herma ventriculi.

nature; by taking large draughts of any cold liquor when the body is much heated by exercise, or dancing; and by repelled exanthemata and gout. Besides these, it may arise from an inflammation of some of the neighbouring parts being communicated to the stomach.

The erysipelatous gastritis arises chiefly towards the close of other diseases, marking the certain approach to dissolution, and being unaccompanied with any marks of general inflammation, or by any burning pain in the stomach.

pain in the stomach.

The symptoms of phlegmonous gastritis, as observed above, are a violent burning pain in the stomach, with great soreness, distention, and flatulency; a severe vomiting, especially after any thing is swallowed, whether it be liquid or solid; most distressing thirst; restlessness, anxiety, and a continual tossing of the body, with great debility, constant watching, and a frequent, hard, and contracted pulse. In some cases, severe nursing attents. severe purging attends.

If the disease increases in violence, symptoms of irritation then ensue; there is a great loss of strength, with faintings; a short and interrupted respiration; cold, clammy sweats, hiscups, coldness of the extremities, an intermittent pulse, and the patient is soon cut

The event of gastritis is seldom favourable, as the person is usually either suddenly destroyed by the violence of the inflammation, or else it terminates in suppuration, ulceration, or gangrene.

If the symptoms are very mild, and proper remedies have been employed at an early period of the disease, it may, however, terminate in resolution, and that in the course of the first, or, at farthest, the second week. Its termination in suppuration may be known by the symptoms, although moderate, exceeding the control of the transfer of the control of the

thuance of this period, and a remission of pain oc-curring, while a sense of weight and anxiety still re-main; a mathe formation of an abscess, cold shi-verings cusue, where the development of the eveverings cusue, we have decayer battering, which are lost the prime sweats, and other symptoms of hectic fever; to send length prove fatal, unless the pus is thrown a continuous and the ulcer heals.

Its tendency to gangrene may be dreaded, from the violence of its symptoms not yielding to proper remedies early in the disease; and, when begun, it may be known by the sudden cessation of the pain; by pulse continuing its frequency, but becoming weaker; and by delirium, with other marks of increasing debi-

lity ensuing.

Fatal cases of this disease show, on dissection, a considerable redness of the inner coat of the stomach, having a layer of coagulable lymph lining its surface. They likewise show a partial thickening of the substance of the organ, at the inflamed part, the inflammation seldom extending over the whole of it. Where ulceration has taken place, the ulcers sometimes are found to penetrate through all its coats, and sometimes

only through one or two of them.

The cure is to be attempted by copious and repeated bleedings, employed at an early period of the disease, not regarding the smallness of the pulse, as it usually becomes softer and fuller after the operation: also several leeches should be applied to the epigastrium, followed by fomentations, or the hot bath; after which a large history will be proper. The large intestines a large blister will be proper. The large intestines may be in some measure evacuated by a laxative clysbut scarcely any internal medicine can be borne by the stomach, till the violence of the disease is much abated; we may then try magnesia, or other mild cathartic, to clear out the canal effectually. Where acrid substances have been taken, inderiaginous drinks may be freely exhibited, to assist their evacuation and sheathe the stomach; otherwise only in small quantity; and, in the former case, according to the nature of the poison, other chemical remedies may come in aid, but ought never to be too much relied upon. Should suppuration occur, little can be done beyond avoiding irritation, and supporting strength by a mild farinaceous diet, and giving opium occasionally to relieve pain. GASTRO.

GASTRO. Names compounded with this word have some connexion with the stomach.

GASTROCE'LE. (From  $\gamma a \varsigma \eta \rho$ , the stomach, and  $\kappa \eta \lambda \eta$ , a tumour.) A hernia of the stomach, occasioned by a protrusion of that viscus through the abdominal

GASTROCNE'MIUS. (From yasno, the stomach, and kunun, the leg.) The calf or belly of the leg.
GASTROCNEMIUS EXTERNUS. Gemellus. An extensor muscle of the foot, situated immediately under the integuments at the back part of the leg; sometimes called gemellus: this latter name is adopted by Albinus. Winslow describes it as two muscles; which he calls gastrocnemi; and Douglas considers this and the following as a quadriceps, or muscle with four heads, to which he gives the name of extensor tarsi suralis. It is called bi femoro calcamien by Dumas. The gastrocnemius externus arises by two distinct heads. The first, which is the thickest and longest of The first, which is the thickest and longest of the two, springs by a strong thick tendon from the upper and back part of the inner condyle of the os upper and back part of the inner condyle of the os femoris, adhering strongly to the capsular ligament of the joint, between which and the tendon is a considerable bursa mucosa. The second head arises by a thinner and shorter tendon from the back part of the outer condyle of the os femoris. A little below the joint, their fleshy belies unite in a middle tendon, and betheir hesny belies finite in a mixing tendon, and be-low the middle of the tibia they cease to be fleshy, and terminate in a broad tendon, which, a little above the lower extremity of the tibia, unite with that of the gastrocnemius internus, to form one round tendon, cometimes called chorda magna, but commonly tendo Achillis.

Achilis.

GASTROCHEMIUS INTERNUS. Tibio peronei calcanien of Dumas. This, which is situated immediately under the last described muscle, is sometimes named soleas, on account of its shape, which resembles that of the sole-fish. It arises by two heads. The first springs by tendinous and fleshy fibres from the posterior part of the head of the fibula, and for some way below it. The second arises from an oblique ridge at the upper and posterior part of the tibia, which affords origin to the inferior edge of the poplitus, continuing to receive fleshy fibres from the inner edge of the "r some way down. This muscle, which is a work at its origin, spreads wider, usit these arrawer again, and begins to grow tendinor a fleshy fibres do not entirely disappear and it has almost reached the extremity of the tibra a little above which it unites with the last described muscle, to form the tendo Achillis. This thick round chord is inserted into the lower and posterior part of the os calcis, after sliding over a cartilarior part of the cost calcis, after sliding over a cartilarior part of the scaled, after sliding over a cartilarior part of the oscaled, after sliding over a cartilarior part of the scaled, after sliding over a cartilarior part of the scaled, after sliding over a cartilarior part of the scaled, after sliding over a cartilarior part of the scaled and the sliding over a cartilarior part of the scaled and the sc terior part of the os calcis, after sliding over a cartila-ginous surface on that bone, to which it is connected by a tendinous sheath that is furnished with a large bursa mucosa.

Both the gastrocnemii have the same use, viz. that of extending the foot, by drawing it backwards and

GASTROCO'LIC. (Gastrocolicus; from γαςηρ, the stomach, and κωλον, the colon.) A term applied to a vein which proceeds from the stomach to the colon. GASTRODY'NIA. (From γαςηρ, the stomach, GASTRODY NIA. (From γαςτρ, the stomach, and οδυνη, pain.) Pain in the stomach, GASTRO-EPIPLOTC ARTERY. Arteria gastrico-epiploica. The branch of the greater gastric artery that runs to the epiploon. GASTRO-PARTY.

GASTRORAPHY. (Gastroraphe; from yassothe stomach, and  $\rho a\phi \eta$ , a suture.) The sewing of wounds of the abdomen. GASTROTO MIA. (From  $\gamma a \varsigma \eta \rho$ , the belly, and  $\tau \epsilon \mu \nu \rho_0$  to cut.) The operation of cutting open the

GAU'BIUS, JEROME DAVID, a celebrated Dutch physician, was a pupil of the illustrious Boerhaave at Leyden, where he graduated in 1725, and about ten Leyden, where he graduated in 1720, and about ten years after he became professor there, and taught with great applause for a period of forty years. His reputation was extended all over Europe by several valuable publications, particularly by his "Institutiones Pathologies Medicinalis," and his "Adversaria," which contributed not a little to the improvement both of the theory and practice of medicine. In another work, he treated ably of the medical regulation of the mind:

GASTROCNE'MIUS. (From γας ηρ, the stomach, resembles that of black birch (betula lenta). The ad κυημη, the leg.) The calf or belly of the leg. medical properties of this plant are not unlike those of cinnamon, being a warm, aromatic, astringent, particularly useful in the secondary stage of diarrhea. It is popularly considered an emmenagogue. The dose may be one or two scruples, but a tincture and infusion are more convenient forms. The volatile oil of this article is officinal."—Bigel. Mat. Med. A.] ["GAYLUSSACITE. This name has recently been given to a new metal obtained from a species of pyrites found in South America of which the following activations are supplied to the second in South America of which the following activations.

given to a new metal obtained from a species of pyries found in South America, of which the following account has been received by Dr. Mitchill, together with a specimen of the substance in a crystalline form.

"The pyrites is obtained from a small lake in the province of Merida de Columbia, being the upper coat of a substratum of strong mineral alkali, called uraa, much used by the lower class of the natives of Columbia, being with an extract of those on and then called bia, mixed with an extract of tobacco, and then called chimo. The alkali produces to the government a rental of from 50,000 to 60,000 dollars perannum. The mineral is at the bottom of the lake, about three fathoms mineral is at the bottom of the lake, about three failnoms under water. Several Indians are employed by the government to dive and extract it, which they do by means of small crowbars. They are paid about two reales per pound for it, and the government afterward sell it at one dollar. The situation of the lake is about ten leagues west of the city of Merida, called Lagunillas.

The pyrites are there called espejuelas, and have been analyzed in Paris, and found to contain a metal

las. The pyrites are there called spejuetas, and have been analyzed in Paris, and found to contain a metal hitherto unknown, and now called G. Lessacite, from the celebrated French chemic of the sacite, from the celebrated French chemic of the sacite, from the celebrated French chemic of the sacite, from the celebrated French chemic of the sacite of GAZ. (From gaschy, to finan word which means an eruption of wind.) See Gas.

GEHLENITE. A mineral substance allied to Vesuvian, found along with calcareous spar in the Tyrol. Grison Ma. (From yescov, the eaves of the house.) Geison. The prominent paris of the eyebrows, which hang over the eyes like the eaves of a house.

GELASINOS. (From yescow, to laugh.) An epithet for the middle fore-teeth, because they are shown in laughter.

Taugnter.

GELA'SMUS. (From γελαω, to laugh.) The Sardonic laugh. See Sardonic laugh.

GE'LATIN. Gelly, or jelly. An animal substance soluble in water, but not in alkohol: capable of assuming a well-known elastic or tremulous consistence, but consider the production of the substantial of the second of the se suming a weit-known ensure of tremuous consistence, by cooling, when the water is not too abundant, and liquifiable again, by increasing its temperature. This last property remarkably distinguishes it from albumen, which becomes consistent by heat. It is precipitated in an insoluble form by tannin, and it is this action of tannin on gelatin that is the foundation of the art of tanning leather.

Jellies are very common in our kitchens: they may be extracted from all the parts of animals, by boiling them in water. Hot water dissolves a large quantity of this substance. Acids likewise dissolve them, as do likewise more particularly the alkalies. Jelly, which has been extracted without long decoction, possesses most of the characters of vegetable mucilage; but it is sel-

of the characters of vegetable mucitage; but it is seldom obtained without a mixture of albumen.

Jellies, in a pure state, have scarcely any smell or
remarkable taste. By distillation, they afford an insipid and inodorous phlegm, which easily putrefles. A
stronger heat causes them to swell up, become black,
and emit a fetid odour, accompanied with white acrid
fumes. An impure volatile alkali, together with empyreumatic oil, then passes over, leaving a spongy coal,
not easily burned, and containing common salt and
blossbate of time.

phosphate of lime.

prears after he became professor there, and taught with great applause for a period of forty years. His reputation was extended all over Europe by several valuation was extended all over Europe by several valuable publications, particularly by his "Institutiones Pathologie Medicinalis," and his "Adversaria," which contributed not a little to the improvement both of the theory and practice of medicine. In another work, the treated ably of the medical regulation of the minding and his printed also a very elegant little book. "De Michael of the modicine command formulas Medicinamentorum." He died in 1780, in the seventy-sixth year of his age.

GAULE. See Myrica gale.

["GAULTHERIA. Partridge berry. The gaultheria procumbens is a well known creeping evergreen, found in woody and mountainous tracts throughout the United States. Its taste is astrigent and aromatic, and has been compared to that of orange flowers. I texactly 384

antil it becomes brittle. These cakes may be kept four prefive years, if defended from moisture. When inor five years, if defended from moisture. When in-tended to be used, nothing more is required to be done than to dissolve a sufficient quantity in boiling water,

which by that means becomes converted into soup.

Jelly is also found in vegetables, as ripe currants, and other berries mixed with an acid.

GELATIO. (From gelo, to freeze.)

1. Freezing.

2. That rigidity of the body which happens in a

catalopsy, as if the person were frozen.

GLM. This word is used to denote a stone which is considered as precious; as the diamond, ruby, sap-phire, topaz, chrysolite, beryl, emerald, &c.

GEMETLAUS. (From geminus, double, having a fellow.) See Gastrocnemus and Gemini.
GEMINI. Gemelli of Winslow. Part of the marsupairs of Cowper. Is his spini trochanterien of Dumas. A muscle of the thigh, which has been a subject of dispute among anatomists since the days of Vesalius. Some describe it as two distinct muscles; and hence the name it has gotten of gemini. Others contend that it ought to be considered as a single mus-The truth is, that it consists of two portions, h are united together by a tendinous and fleshy which are united which are united together by a tendinous and fleshy membrane, and afford a passage between them to the tendin of the obdurator internets, which they enclose as it were in a purse. These two portions are placed under the gateus maximus, between the ischium and the great trochanter

the great trochanter.

The superior portion, which is the shortest and thickest of the two, rises fleshy from the external surface of the spine of the ischine; and the interior, from the tuberosity of that bone, and likewise from the posterior sacro-ischiatic ligament. They are injected, tendinous and fleshy, into the cavity at the tool of the great trochanter. Between the two portions of this muscle, and the termination of the obturator internus. there is a small bursa mucosa, connected to both, and to that part of the capsular ligament of the joint which

lies under the gemini.

This muscle assists in rolling the os femoris out-wards, and prevents the tendon of the obturator inter-nus from slipping out of its place while that muscle is

GEMMA. 1. A precious stone or gem.

In botany this term is now applied exclusively to the buds on the stems of plants. The ancients used the terms germen and oculus to denote those buds which contain the rudinents of branches and leaves, and gemma those in which flowers only are contained; but by the moderns, germen has been applied to denote the rudiment of the fruit, or as a generic term for all buds .- Thompson.

buds.—Thompson.

A genuma or bud contains the rudiments of a plant, or of part of a plant, for a white in a latent state, till the time of the year, and other circumstances, favour their evolution. In the bud, therefore, the vital pulpelie dormant. Buds of trees or shrubs, destined for cold countries, are formed in the course of the summer in the bosoms of their leaves, and are generally solitary; but in the Lonicera carulea, or blue-berried honey-suckle, they grow one under another for three

successive seasons.

The buds of the plane-tree, Platanus, are concealed in the footstalk, which must be removed before they can be seen, and which they force off by their increase; so that no plant can have more truly and necessarily deciduous leaves.

Shrubs in general have no buds, neither have the

rees of hot climates

Buds are various in their forms, but very uniform in the same species, or even genus. They consist of scales closely enveloping each other, and enfolding the conbryo plant or branch. Externally they have often an additional guard of gum, resin, or woolliness, against wet or cold. The horse-chesunt affords a fine example of large and well-formed buds.

The contents of bads are different, even in differ ent species of the same genus, as willows. The buds of some produce leaves only, others flowers, while in The buds other species the same bud bears both leaves and flow-Different causes, depending on the soil or situation, seem in one case to generate leaf-buds, in another flower-buds. In general, whatever checks the luxu-riant production of leaf-buds, favours the formation of flowers and seeds .- Smith.

Gems are found in all trees and shrubs in temperate climates. In the majority of instances they are visible from the first, in which case they are axillary, that is, seated in the axillæ of the leaves, or the angle which the upper part of the footstalk of the leaf makes with the surface of the stem; but in some instances, as the sumachs and planes, they are latent, being hid within the base of the footstalk, and never seen until the fall of the leaf. Gems are however sometimes protruded from the trunk, long after it has ceased to produce leaves, as in the case of adventitious buds; they are also situated on roots, and on tubers, but in these cases they are usually denominated oculi, or eyes.

Annual plants are supposed to be furnished with gems; but although they are devoid of covered gems, vet their lateral shoots proceed from naked buds which

immediately spread into foliage.

The relative position of axillary gems is necessarily regulated by that of the leaf, and therefore we find them, 1. Opposite, or placed exactly on the same line on opposite sides of the stem or the branch.

2. Alternate, or placed alternately, although on op-

posite sides; and,

3. Spiral, that is, placed round the stem or branch in 3. Spirad, that is, placed round the stem or branch in such a manner that a cord wound in a spiral manner round it would touch each gem. They are said to be simple or solitary, when one gem only is seen in the axilla of each leaf, as in the greater number of instances; and aggregate, when, as in some plants, two, three, or even more are protruded at the same time: thus we find two in the Sambucus augra, or common elder, then in the Sambucus augra, or common elder. elder; three in the Aristolochia sipho, or broad leaved birth-wort; and many in the Zanthozylum frazineum, or toothache tree.

Du Hamel first noticed the fact, that stems and

branches furnished with alternate axillary gems have generally one terminal gem only; and those with oppo-

site have generally three terminal gems.

The generally three terminal genus. The genus on most trees and shrubs rise with a broad base from the stirface where they are protruded, and consequently being in close contact with it, are said to be sessible; but they are distant or stalked on some, as the common alder, on which they are supported on a short footstalk, and are termed pedicillate, or stalked.

Genes differ very considerably in the number and characters of the enclosing scales, their contents, the folding up of the leaves within them, and the manner

in which they are evolved in the spring.

a. The scales differ in size and texture, even in the a. The scales differ in size and texture, even in the same gem: in the gens of different plants, they differ also in number and in the nature of their coverings; some gens are entirely destitute of scales; as those of annual plants, and many perennials of tropical climates. The scales in some instances are besineared with a resinous matter; in others they are entirely free from any moist exudation, but are smooth and poished, being covered withs advagament vanish; or they are externally hairy or enveloped in a velvety

Geins are arranged into three species:

Gemmæ foliiferæ, leaf gems

Genma florifera, flower gems.

2. Gename florifera, flower gens.
3. Gename mixte, mixed gens.
The Amygdalus persica, or peach-tree, the Daphne mezerenu, and many other plants, afford examples of distinct leaf and flower gens; the Springa vulgaris and Assembles hippocastanum, of mixed gens; and the pear and apple trees of both leaf and mixed gens.
The leaves, as has already been mentioned, are variously folded up so as to occupy the smallest possible space in the gen. This regulates the expansion of the leaves when the gene cover in spring, and it is

of the leaves when the gen opens in spring, and it is invariably the same in individual plants of the same species. This process is termed foliation, and the figures which the leaves assume at the time have received different appellations.— Thompson.

1. Foliatro involute, in which each internal margin of the leaf is rolled inwards; as in Huma-

lus lupulus and Nymphwa lutea.
2. F. revoluta, revolute, in which the lateral margins are rolled outwards; as in willows, and Rumex patientia.

3. F. obvoluta, obvolute, in which one leaf, doubled lengthways, embraces within its doubling one half of the other leaf, folded in the same manner; as in Sulvia officinalis, and Dipsacus communis.

lengthwise in a spiral manner, one margin forming the axis round which the other turns; as in Prunus domes-tica, and Prunus armeniaca, the cabbage, grasses, &c.

tied, and remains descented, the tamong, grasses, ac.
5. F. equetans, equitant, in which the leaf is so folded that the two sides deeply embrace the opposite leaf, which in its turn encloses the one opposed to it, and so on to the centre of the bud; this is beautifully exemplified in the Homarocallis, or day-lily, and Sy

ringa vulgaris.
6. F. conduplicata, in which the two sides of the

leat the parametro casa conet, as in a grand guercus robur.

7. R plicata, plaited, the leaf being folded up like a fan; as in Betula alba, and Alchemilia outgaris.

8. F. reclinata, reclinate, turned down, the leaf hanging down and wrapped round the footstalk; as in

Monitum and Arum.

9. F. circinata, circinal, in which the leaf is rolled from the apex to the base; as in all ferns.

As the gems open, the leaves gradually unfold themselves, and assume their natural forms; but the opening of the bud does not, in every instance, immediately set free the leaves, for in some gems each leaf is

separately enclosed in a membraneous cover.

GEMMACEUS. A term used by botanists to a flower-stalk which grows out of a leaf-bud, as is seen

in the Berberis vulgaris.

GEMMATIO. (From gemma, a bud.) A term used by Linnæus expressive of the origin, form, &c. of

GEMU'RSA. (From gemo, to groan: so called from the pain it was said to occasion in walking.) The name of an excrescence between the toes.

name of an excrescence between the toes.

GENET'AS. (From yrvvy, the cheek.)

1. The downy hairs which first cover the cheek.

2. The name of a bandage mentioned by Galen, which covers the cheek, and comes under the chin.

GENERATION. (Generatic; from yrvvpuu; to beget.) Many ingenious hypotheses have been instituted by physiologists to explain the mystery of generation; but the whole of our knowledge concerning it appears to be built upon the phenomena it affords, and may be seen in the works of Haller, Buffon, Cruickshanks, and Haighton. It is a sexual action, performed in different ways in most animals; many of them have different sexes and require conjunction; such are the human species, quadrupeds, and others. The females human species, quadrupeds, and others. The females of quadrupeds have a matrix, separated into two cavities, uterus bicornis, and a considerable number of teats; they have no menstrual flux; most of them bear several young at a time, and the period of their ges-tation is generally short. The generation of birds is very different. The males have a strong genital organ, which is often double. The vulva in the females is placed behind the anus; the ovaries have no matrices, and there is a duct for the purpose of conveying the and there is a duct for the purpose of conveying the egg from the ovarium into the intestines: this passage is called the oviduct. The eggs of pullets have exhibited unexpected facts to physiologists, who examined the phenomena of incubation. The most important discoveries are those of the immortal Haller, who found the chicken perfectly formed in eggs which were not fecundated. There is no determinate conjunction between fishes; the female deposites her eggs on the sands, over which the male passes, and emits its seminal fluid, doubless for the purpose of fecundating them; these eggs are hatched after a certain time. The males of several oviparous quadrupeds have a double or fushed overal. Insects exhibit all the varies double or forked organ. Insects exhibit all the variedoning or forfard organ. Insects extinuing all the varieties which are observed in other animals; there are some, indeed the greater number, which have the sexes in two separate individuals; among others, the reproduction is made either with or without conjunction, as in the vine-fretter; one of these insects, confined alone beneath a class, produces a great knusher of others. The organ of the male in insects is usually armed with two hooks to seize the female: the place of these organs is greatly varied; with some, it is at the upper part of the belly, near the clast, as in the female dragon-fly; in others, it is at the extremity of the antenna, as in the male spider. Most worms are the arienna, as in the male space. Ross women are individual has both seess. Polypi, with mapret to generation, are singular animals, they are reproduced by buds or effects: a bud is separated from each vigorous polypus, which is fixed to come neighbouring body, and grows: polypi are like

F. convoluta, convolute, in which the leaf is rolled thwise in a spiral manner, one margin forming the round which the other turns; as in Prunus damesand Prunus armeniaea, the cabbage, grasses, eccies, which engages our attention more particularly,

GEN

the phenomena are as follow:

The part of the male, in the act of reproduction, is to deposite the semen in the vagina, at a greater or less distance from the orifice of the uterus.

The function which the female discharges is much more obscure; some feel, at this moment, very strong voluptuous sensations; others appear entirely inseuvoluptious sensations; others appear contrary means sible; while others, again, experience a sensation which is very painful. Some of them pour out a mu-cous substance in considerable abundance, at the in-stant of the most vivid pleasure: while, in the greater part, this phenomenon is entirely wanting. In all these respects, there is, perhaps, no exact resemblance between any two females.

These different phenomena are common to the most frequent acts of copulation, that is, to those which do not produce impregnation, as well as those which are

effective.

The most recent opinion is, that the uterus during impregnation opens a little, draws in the semen by aspiration, and directs it to the ovarium by means of the Fallopian tubes, the fimbriated extremity of which closely embraces that organ.

The contact of the semen determines the rupture of one of the vesicles, and the fluid that passes from it, or the vesicle itself, passes into the uterus, where the new individual is to be developed.

However satisfactory this explanation may appear, it is purely hypothetical, and even contrary to the ex-

periments of the most exact observers.

periments of the most exact observers.

In the numerous attempts made upon animals, by Harvey, DeGraaf, Valisneri, &c. the semen has never been perceived in the cavity of the uterus; much less has it been seen in the Fallopian tube at the surface of the ovarium. It is quite the same with the motion which the Fallopian tube is supposed to have in embracing the circumference of the ovarium: it has never been proved by experiment. Even if one should suppose that the semen penetrates into the uterus at the moment of coition, which is not impossible, though it has not been observed, it would still be very difficult to comprehend how the fluid could pass into the Fallopian tubes, and arrive at the ovarium. The uterus in the empty state is not contractible; the uterine orifice of the Fallopian tubes is extremely narrow, and these

canals have no known sensible motion.

On account of the difficulty of conceiving the passage of the semen to the ovarium, some authors have imagined that this matter is not carried there, but only the vapour which exhales from it, or the aura seminalis. Others think that the semen is absorbed in the vaginar, passes into the venous system, and arrives at the ova-ria by the arteries. The phenomena which accompany the fecundation of women are, then, nearly unhow. An equal obscurity rests on the fecundation of other mamniferous females. Nevertheless, it would be more easy to conceive a passage of the semen to the ovaria in these, since the uterus and the Fallopian tubes possess a peristaltic motion like that of the intestines. Fecundation, however, taking place by the contact of the senson with the creat in these possess. by the contact of the semen with the ova, in fishes, reptiles, and birds, it is not very likely that nature employs any other mode for the mammifera; it is necessary, then, to consider it as very probable, that, either sary, then to consider it is very probability they critical at the instant of cotion, or at a greater or a less time afterward, the semen arrives at the ovarium, where it exerts more especially its action upon the vessels most developed.

But, even should it be out of doubt that the semen arrives at the vesicles of the ovarium, it would still remain to be known how its contact animates the germ contained in it. Now, this phenomenon is one of those on which our senses, and even our mind, have o hold: it is one of those impenetrable mysteries of which we are, and, perhaps, shall ever remain ig-

We have, however, on this subject, some very inge-

We have, however, on this subject, some very ingenious experiments of Spallanzani, which have removed the difficulty as far as it seems possible.

This phiosopher has proved, by a great number of trials, list, that three grains of semen, dissolved in two pounds of water, are sufficient to give to it the fecunitating virtue; 2d, that the spermatic animalcula are

not necessary to fecundation, as Buffon and other au- ( The leaves, boiled and sprinkled in vinegar, have the thors have thought; 3d, that the aura seminalis, or seminal vapour, has no fecundating property; 4th, that a bitch can be impregnated by the mechanical injec-

tion of semen into her vagma, &c. &c. It is thus necessary to consider as conjectural what authors say about the general signs of fecundation. authors say about the general stars of recumanton. At the instance of conception, the woman feels, it is said, a universal tremor, continued for some time, accompanied by a voluptuous sensation; the features are discomposed, the eyes lose their brilliancy, the pupils are dilated, the visage pale, &c. No doubt, important of the property of the continue of the property of the continue of the property of the prope pils are dilated, the visage pale, &c. No doubt, impregnation is sometimes accompanied by these signs; but many mothers have more failed. many mothers have never felt them, and reach

but many mothers have never felt thein, and reach even the third month of their pregnancy without suspecting their situation."—Magendae's Physiology.

Fecundation having thus taken place, a motion is induced in the vivilided ovain, which ruptures the tender vesicle that contains it; the fimbriae of the Fallopian tube then grasp and convey it into the tube, which, by its peristaltic motion, conducts it into the cavity of the uterus, there to be evolved and brought to maturity, and, at the expiration of nine months, to be sent into the world.

GENERATION, ORGANS OF. The nails subservient

Generation, organs of. The parts subservient to generation in a woman are divided into external and internal. The external parts are the mons veneris, the labia, the permanen, the cliberies, and the nympher. To these may be added the means wrinarius, or orifice of the nucleus. The kymen may be esteemed the barner is tween the external and internal parts. The internal parts of generation are the vagina and uterus, and its appendages.

The parts which constitute the organs of generation in men, are the penis, testes, and vesicula semi-

GENICULATUS. Geniculate; bent like the knee: applied to the culm or straw of grasses; as in Alopecu-

Tris generalatus.

GENIO. (From γενείον, the chin.) Names compounded of this word belong to muscles which are

attached to the chin.

GENIO-HYO-GLOSSUS. (From γενειον, the chin, νοειόςς, the os hyoides, and γλοσεα, the tongue; so called from its origin and insertion.) Genia glossus of some authors. The muscle which forms the fourth of some authors. The muscle which forms the fourth layer between the lower jaw and os hyoides. It arises from a rough protuberance in the inside of the middle of the lower jaw; its fibres run like a fan, forwards, upwards, and backwards, and are inserted into the tip, middle, and root of the tongue, and base of the os hyoides, near its corner. Its use is to draw the tip of the tongue backwards into the mouth, the middle downwards, and to reader its back concave. It also dearwest roughly the provides forwards, and thrusts. draws its root and the os hyoides forwards, and thrusts the tongue out of the mouth.

GENIO-HYOLDEUS. (From yevelov, the chin, and volles, the os hyoides; so called from its origin in the vocaces, the os hyones: so cancel from its origin in the chin, and its insertion in the os hyoides.) The muscle which confitutes the fined layer between the lower jaw and os hyoides. It is a long, thin, and fleshy muscle, arising tendinous from a longh protuberance at the inside of the chin, and growing somewhat broader and thicker as it descends backward to be inserted by very short tendinous fibres into both the edges of the base of the os hyoides. It draws the os

hyoides forwards to the chin.

GENIOPHARYNGE US. See Constrictor pharyngis

GENIPI ALBUM. See Artemisia rupestris.
GENIPI VERUM. The plant directed for medicinal purposes under this title, is the Achillea-folius pinnatis, pinnis simplicibus, glabris, punctatis, of Haller. It has a very grateful smell, and a very bitter taste, and

it has a very grateful since, and a very other tasse, and is exhibited in Switzerland, in epileps), diarrhea, and debility of the stomach.

GENISTA. (From genu, a knee; so called from the inflection and angularity of its twigs.) 1. The same or a genus of plants in the Linnean system. Class. Dimitalpling; Order, Decanderia.

The pharmacoporal name of the common broom.

2. The pitterm separium.

Genista Canriers. This tree was supposed to afford the ligamin Rhodium, which is now known to be an aspalathus. See Aspalathus canariensis.

Genista Soussa (Indica. Babel schult. An Indicate Soussa and Andreas of Which is durent.

dian tree, a decoction of the roots of which is diuretic.

same effect, according to Ray.

GENISTA FIN. TORIA. The systematic name of

Chamapartsum, or Dyer's broom.
GENITA LE. (From gigno, to beget.) The mem-

brum virile

GENITA' LUM. (From genitale, the membrum virile.)

General Lum. (From genitale, the membrum virile.)
A discusse of the genital parts.
GENITICA. (From yetvopat, gigner.) The name of a class of discusses, in Good's Nosology, embracing discusses of the sexual function. It has three orders, viz. Cenotica, Orgastica; Carpotica.
GENITURA. (From gigne). 1. The male seed.
2. The membrum virile.
GENON. (From yev, the knee.) A moveable articulation like that of the knee.
[\*GENESEE OIL This is a variety of petroleum found in various parts of the United States, sometimes abundantly, as in Kentucky, Okoo, the yestern parts

found in various parts of the United States, sometimes abundantly, as in Kentucky, Oho, the western parts of Pennsylvania, and in New York, at Seneca lake, &c. It usually floats on the surface of springs, which, in many cases, are known to be in the yearnity of coal. It is sometimes called Seneca or Genesee oil."-Clear. Min. A. GENSING.

GENSING. See Panax. GENSING. See Panax. GENTLANA. (From Gentius, king of Illyria, who first used it.) 1. The name of a genus of plants in the Linman system. Class, Pentandria; Order, Digynia. Gentian.
2. The pharmacopæial name of the gentian root.

See Gentiana lulea.
Gentiana Alba. See Laserpitium latifolium.
Gentiana centaurium. Less centaury was GENTIANA CENTAURIUM. Less centaury was so called in the Linnwan system; but it is now Chironia

GENTIANA LUTEA. The systematic name of the officinal gentian. Gentiana rubra. Felwort. The gentian met with in the shops is the root of the gengenma met with it he stopps is the root of the gen-tranu-corollos subquenque; discretized reticellates, calgebras spothacers, of Linneus; and is imported from Switzerland and Germany. It is the only medi-cinal part of the plant, bas little or no smell, but to the taste manifests great bitterness, on which account it is taste mantiests great nitereness, on which account it is in general use as a tonic, stomachic, antheimitic, an-tiseptic, emmenagogue, and febrifuge. The officinal preparations of this root are the infusum gentiana compositum, and tinctura gentiana composita, of the London Pharmacopeia; and the infusum amarum, vinuma marum, tinctura amara, of the Edinburgh Pharmacopeia; and the extractum gentiana is order-et by both

ed by both.

GENTIANA RUBRA. See Gentiana lutea.

["GENTIANA CATESBEEL Blue gentian. Of various native species of gentian, which our country affords; this approaches most nearly to the officinal plant in bitterness. Its virtue appears to reside chicily in an extractive principle, soluble in water and alkohol. It has also a little resin. Like the imported gentian, it is an active tonic, invigorating the stomach, and giving relief in complaints arising from indigestion. It appears to the support of the stomach, and giving relief in complaints arising from indigestion. pears to possess much reputation in the Southern States, to which its growth is principally confined."—Bigel. to Which us gi...

Mat. Med. A.]

Continuing. The bitter principle of the Gentian

root.
["The discovery of this immediate principle, presents a circumstance so singular as to merit being re-

" M. Henry, chief of central pharmacy, and M. Ca-"M. Henry, chief of central pharmacy, and M. Caventou, were occupied at the same time, and without the knowledge of each other, on the analysis of gentian. They arrived at results so much alike, that having communicated their labours to each other, they perceived that they seemed to have acted in concert,

perceived that they seemed to have acted in concert, and resolved to publish them in common.

\*\*Proparation of geneticatine.\*\* The powder of gentian is treated with cold other. After torty-eight hours, a tincture is obtained of a greenish yellow;—this tincture filtered, poured into an open vase, and exposed to heat, will become, by cooling, if the liquor is sufficiently concentrated, a yellow crystalline mass, with a very perceptible taste and smell of gentian.

\*\*This mass is treated with alkohol until it ceases taking a citron tinge. The washings are reunited and exposed to a mild heat; the yellow crystalline mass reappeass, which, upon evaporation, becomes concentrated, and of a very strong bitterness.

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"Resumed by feeble alkohol, it is redissolved in and sweetish taste, and a disagreeable smell. According to Dr. Wright of Jamaica, it is powerfully medicipart, with the exception of a certain quantity of oily

"This last alkoholic solution, besides the bitter principle of the gentian, contains an acid substance, and

the odorous matter of gentian.

"By evaporating this liquor to dryness, soaking the matter in water, adding a little washed and calcined magnesia, boiling and evaporating with a vapour bath, the greatest part of the odorous matter of the gentian is expelled; the acidity disappears by means of the magnesia, and the yellow bitter principle remains in part free and in part combined with the magnesia, to which it communicates a beautiful yellow colour. Then by boiling this magnesia with other, the greater part of this bitter principle is taken up, which is obtained pure and alone by evaporation. If it he wished to separate the greatest part of the bitter principle, which remains fixed in the magnesia, and which the ether could not take up, it must be treated with oxalic acid, in a quantity sufficient to produce a cidity. This acid unites with the magnesia, and sets free the bitter principle, which is retaken by the means already

"Properties of gentianine. The centianine is yellow, inodorous, with the aromane bitterness of the gentian very strong, and which is increased very much when it is dissolved in an acid.

When it is dissolved in an acid.

"It is very soluble in ether and alkohol, and is separated by spontaneous evaporation, in the form of very small yellow crystalline needles. It is much less soluble in cold water, which it renders, however, very bitter; boiling water dissolves more.

"The dilute alkalies deepen very much its colour, and dissolve it a little more than water alone.

Acids lighten its yellow colour in a very evident Its solutions are almost colourless with sulphuric and phosphoric acid, and yellowish with acids more feeble, such as the acetic acid. Concentrated sulphuric acid carbonizes it and destroys its butterness.

"Gentianine, exposed 1s. a glass tabe to the heat of boiling mercury, is sublimed in the form of small yellow crystalline needles. One part is decomposed.
"Action of gentanine on man and other animals. Some which I made, taught me that gentianine has no poisonous qualities. Several grains of this substance injected into the veins, produce no apparent effect. 1 myself swallowed two grains dissolved in alkohol, and only experienced an extreme bitterness, and a slight feeling of warmth at the stomach

"Mode of employing gentianine. The tincture is the preparation which should be most frequently used. It may be prepared from the following formula:

Tincture of gentianine. B. Aikohol at 249, 1 ounce.
Gentianine, 5 grains.

"This tincture replaces with success the elixir of gentian, and is caployed in the same circumstances:

Serve of gentianine. B. serving suggest 1 named. B. syrup of sugar, 1 pound. Gentianine, 16 grains. Syrup of gentianine

"This is one of the best bitters which can be used in set of thouse affections."—Magendie's Formulary. A.] GENU. The knee. GENU GRA. (From yeve, the knee, and ayoa, a seizure.) A name in Paracelsus for the gout in the

knee. GENUS. (From yevos, a family.) By this term is understood, in natural history, a certain analogy of a number of species, making them agree together in the number, figure, and situation of their parts; in such a number, that they are easily distinguished from the species of any other genus, at least by some one auticle. This is the proper addeterminate sense of the word genus, whereby it forms a subdivision of any class, or order of natural beings, whether of the animal, vegetable, or mineral kingdoms, all agreeing in certain common and distinct characters.

GEODES A kind of acities, the hollow of which

certain common and distinct characters.

GEODES: A kind of actives, the hollow of which contains only loose earth, instead of a nodule.

GEOFFRÆ A. (Named in honour of Dr. Geoffroy.)

Geoffroya. I. The name of a genus of plants in the Linnacan system. Class, Diadelphia; Order, Decandria.

2. The pharmacopæial name of the cabbage bark-tree. See Geoffree inermis.
GROFFREA INERMIS. The systematic name of the cabbage bark-tree, or-worm bark-tree. Geoffree-folis lanceolatis of Swartz. It has a mucilaginous

nal as an anthelmintic.

GROFFREA JAMAICENSIS. The systematic name of GEOFFREE CLAMMUNNIS. I Be systematic name of the bastard cabage-tree, or bulgewater-tree. Geoffroya -inermis foliolis lanceolatis, of Swartz. The bark is principally used in Jamaica, and with great success, as a vermifuge.

GEOFFREA SURINAMENSIS. The systematic name of a tree, the bark of which is esteemed as an anthel-

GEOFFROY, STEPHEN FRANCIS, was born at aris, in 1672. After giving him an excellent general Paris, in 1672. raris, in 1012. After giving ann an excellent general education, his father, who was an apothecary, sent him to study his own profession at Montpelier; where he attended the several lectures. On his return to Paris, having already acquired considerable reputation, he was appointed to attend the Duke de Tallard, on his embassy to England, in 1698. Here he was very favourably received, and elected a member of the Royal Society; and he afterward visited Holland and Italy. His attention was chiefly directed to natural history and the materia medica, his father wishing him to succeed to his establishment at Paris: however, he became ambitious of the higher branch of the profession, and at length graduated in 1704. His reputation rapidly increased; and he was called in consultation even by the most distinguished practitioners. In 1709 he was appointed to the professorship of medicine on the death of Tournefort. He then undertook to deliver to death of Fourneror. The men indertook to derive to his pupils a complete History of the Materia Medica, divided into mineral, vegetable, and animal sub-stances; the first part of which he finished, and about half of the second: this was afterward published from his papers, in Latin, in three octave volumes. In 1712 he was made professor of chemistry in the king's garden; and 14 years after, dean of the faculty. In this office he was led into some active disputes; whence office he was led into some active dispites; whence his health, naturally delicate, began to decline; and fie died in the beginning of 1731. Nothwithstanding his idness, however, he completed a work, which had been deemed necessary by pre-eding d-ans, but never accomplished; namely, a Pharmacopeia, which was published under the name of "Code Medicamentaire de la Faculté de Paris."

GEOGNOSY. The same as geology.

GEOLOGY. (Geologia: from va. the earth, and

GEOLOGY. (Geologia; from yn, the earth, and loyog, a discourse.) A description of the structure of the earth. This study may be divided, like most others, into two parts; observation and theory. By the first we learn the relative positions of the great rocky or mineral aggregates that compose the crust of our globe; through the second, we endeavour to pene-trate into the causes of these collocations. A valuable work was some time since published, comprehending a view of both parts of the subject, by Mr. Greenough, to which the reader is referred for much instruction, communicated in a very lively manner.

Very recently the world has been favoured with the

Very recently the world has been tavoured with the first part of an excellent view of this science by Messrs. Conybeare and Phillips, in their "Outlines of the Geology of England and Wales;" from which work, the following brief sketch of the subject is taken: The Traité de Geognosie of D'Aubuisson bears a high character at the continent. character on the continent.

WERNER'S Table of the different Mountain Rocks, from Jameson. CLASS I.—Primitive rocks.

Granite. 8. Porphyry.

9. Syenite. 10. Topaz-rock. Gneiss. Mica-slate

Clay-slate.
Primitive limestone. 11. Quartz-rock 12. Primitive flinty-slate.

13. Primitive gypsum. Primitive trap.

14. White stone Serpentine.

time.
CLASS II.—Transition rocks.
Ilon lime-stone.
4. Transition flinty-slate.
Ilon trap.
5. Transition gypsum. 1. Transition lime-stone. Transition trap. 3. Greywacke

CLASS III .- Floctz rocks.

Old red sandstone, or first sandstone formation. First or oldest floetz limestone.

First or oldest floetz gypsum. Second or variegated sandstone formation.

Second floetz gypsum. Second floetz limestone. Third floetz limestone.

- 8. Rocksalt formation.
- Chalk formation
- 10. Floetz-trap formation.
- Independent coal formation.

Newes floetz-trap formation.

- CLASS IV.—Alluvial rocks.
  5. Nagelfluh.
  d gravel.
  6. Calc-tuff.
- Sand and gravel. Loam. 7. Calc-sinter.
- Bog-iron ore.
  - CLASS V .- Volcanic rocks.

Pseudo-volcanic rocks. Burnt clay

- Porcelain jasper.
- Earth slag.
- Columnar clay ironstone.
- 5. Polier, or polishing slate. True volcanic rocks.
- Ejected stones and ashes.
- Different kinds of lava.
  The matter of muddy eruptions.

chemical structure of the primitive, than the mechanical of the secondary rocks. As these transition rocks were taken by Werner from among those which, in his general arrangement, were called secondary, the formations of that class made it necessary to abandon the latter term. To denote the mineral masses reposing in his transition senes, he accordingly employed the term floetz rocks, from the idea that they were generally stratified in planes nearly horizontal, while those of the older stata were inclined to the horizon at considerable angles. But this holds good with regard to the structure of those countries which are comparatively low: in the Juna chain, and on the borders of the Aps and Pyreness, Werner's floetz formations are highly inclined. Should we therefore persist in the use of this term, says Mr. Conybeare, we must prepare ourselves to speak of verticel beds of floetz, (i. e. horizontal), limestone, &c. As the inquiries of geologists extended the knowledge of the various formations, Werner, or his disciples, found it necessary to subdivide the bulky class of floetz rocks into floetz and newest floetz, thus completing a fourfold his general arrangement, were called secondary, the 3. The matter of muddy eruptions.

The primitive rocks lie undermost, and never contain any traces of organized being simbedded in them. The transition rocks contain comparatively few organic remains, and approach more nearly to the significant process of the primitive of geological arrangement is given by the Rev. Mr. Conybeare.

| CHARACTER.  | PROPOSED NAMES.    | WERNERIAN NAMES  | OTHER WRITERS.      |
|---|--------------------|--|---------------------|
| 1. Formations (chiefly of sand and clay) above the chalk.   | Superior order.    | Newest floetz olass.   | Tertiary class.     |
| 2. Comprising, a. Chalk. b. Sands and clay, beneath the chalk. c. Calcareous freestones (oolites) and argiliaceous beds. d. New red sandstone, conglomerate, and magnesian timestone. | Supermedial order. | Floetz class.  | Secondary class.    |
| 3. Carboniferous rocks, comprising, a. Coal measures. b. Carboniferous limestone. c. Old red sandstone.   | Medial order.      | Sometimes referred to the preceding, some-<br>times to the succeeding class, by writers of these<br>schools; very often the coal measures are refer-<br>red to the former, the subjacent limestone and<br>sandstone to the latter. |                     |
| 4. Roofing slate, &c. &c.   | Submedial order.   | Transition class.  | Intermediate class. |
| 5. Mica slate, gueiss, granite, &c.   | Inferior order.    | Primitive class.   | Primitive class.    |

In all these formations, from the lowest to the highest, we find a repetition of rocks and beds of similar chemical composition; i.e. siliceous, argillaceous, and calcareous, but with a considerable difference in texture; those in the lowest formations being compact and often crystallae, while those in the highest and most recent are loose and earthy. These repetitions form what the Wernerians call formation suites. Vie may mention,

1st. The limestone suite. This exhibits, in the in-ferior or primitive order, crystalline marbles; in the two next, or transition and carboniferous orders, compact and subcrystalline limestones (Derbyshire limepact and supersystamic ministones, persystamic ministones, in the supermedial or floctz order, less compact limestone (lias), calcareous freestone (Portland and Bath stone), and chalk; in the superior or newes: Boetz order, loose earthy limestones.

2d. The argullaceous state presents the following gradations; clay state, shale of the coal-measures, shale of the lias, clays state, shale of the passing states are stated in the coaling states.

of the lias, clays alternating in the onlite series, and that of the sand beneath the chalk; and, lastly, clays above the chalk.

3d. The siliccous suite may (since many of the sandstones of which it consists present evident traces of felspar and abundance of mica, as well as grains of quartz, and since mica is more or less present in every bed of sand) perhaps deserves to have granite placed at its head, as its several members may possibly have been derived from the detritus of that rock; it may be continued thus; quartz rock and transition sandstone, old red sandstone, millstone-grit, and coal-grits, new red sandstone, sand and sandstone beneath the chalk, and above the chalk. In all these instances a regular diminution in the degree of consolidation may be per-ceived in ascending the series.

<sup>(4)</sup> A Geological Nomenclature for North America, founded upon Geological Surveys, by Amos Eaton, Professor in the Rensellaer School at Troy, N. Y.

Professor in the Rensetlaer School at Troy, N. Y. Classes of Rocks.

Class 1. Primitive Rocks; being those which contain no organic relies nor coal See Fig. 1, 2, 3, 4, 5, and 6. Class 2. Transition Rocks; being those which contain no animal remains, but radiated and molluscous—

the latter more than one valved, or one valved and chambered. See Fig. 7, 8, 9, 10, 11, and 12.

Cass 3. Secondary Rocks; being those which contain in some localities, one valved molluscous animal remains, not chambered. They embrace most of those remains, not chambered. They embrace most of those remains found in transition rocks also; and the upper secondary rocks centain oviparous vertebral remains. See Fig. 13, 14, 15, 16, 17, 18, and 19.

CLASS 4. Superincumbent Rocks; being those horn-blende rocks, which overlay others without any regular transitions.

order of superposition, supposed to be of volcanic origin. See Fig. 20.

Classes of Detritus

CLASS 5. Allacend Detritus; being those masses of detritus, which have been washed into their present situation. See Fig. 21, 22, 23, and 24.

CLASS 6. Anallavial Detritus; being those masses of detritus, which have not been washed from places where they were first formed by the disintegration of rocks. See Fig. 25 and 26.

## GEOLOGICAL NOMENCLATURE

| -  |   |   |  |
|--|---|---|--|
| CASE OF<br>SPECIMENS.<br>CLASSES 2 & 1.  | GENERAL STRATA and subdivisions.                          | VARIETIES.  | IMBEDDED<br>and<br>DISSEMINATED.                                   |
| r A  | SECOND GRAY-<br>WACKE.  B. Rubble. A. Compact.            | Red sandy, (old<br>red sand?)<br>Horne-slate.<br>Grind-stone. | Manganese.<br>Anthracite.  |
| u.   | METALLIFEROUS LIMEROCK. B. Shelly. A. Compact.            | Birdseye marble.  |  |
| 10   | Calciferous<br>Sandrock.<br>B. Geodiferous<br>A. Compact. | Quartzose.<br>Sparry.<br>Oolitie.                             | Semi-opal. Anthracite. Barytes. Concentric concretions.            |
| 9. B   | SPARRY LIMEROCK. B. Slaty. A. Compact.                    | Checkered rock.   | Chlorite.<br>Calc spar.  |
| 8  | First Gray-<br>Wacke.*<br>B. Rubble.<br>A. Compact.       | Chloritic.  | Milky quartz.<br>Cale spar.<br>Anthracite.                         |
| 7  | ARGILLITE.  B. Wacke Slate. A. Clay Slate.                | Chloritic.<br>Glazed.<br>Roof-slate.<br>Red. Purple.          | Flinty slate. Anthracite. Striated quartz, Milky quartz. Chlorite. |
| 6. AB  | GRANULAR LIME-<br>ROCK. B. Sandy. A. Compact.             | Verd-antique.<br>Dolomite.<br>Statuary marble.                | Tremolite.<br>Serpentine.<br>Chromate of iron.                     |
| The state of the s | GRANULAR<br>QUARTZ.<br>B. Sandy.<br>A. Compact.           | Ferruginous.<br>Yellowish.<br>Translucent.                    | Manganese.<br>Hematite.  |
| 4 B  | Talcose Slate.  B. Fissile. A. Compact.                   | Chloritic.  | Octahedral crystals of iron ore.<br>Chlorite.                      |
| 3  | HORNBLENDE<br>ROCK.<br>B. Slaty.<br>A. Granitic.          | Greenstone.<br>Gneissoid.<br>Porphyritic.<br>Sienitic.        | Granite.<br>Actynolite.<br>Augite.                                 |
| AB   | MICA-SLATE.  B. Fissile. A. Compact.                      |   | Staurotide.<br>Sappare.<br>Garnet.                                 |
| TEB B  | GRANITE.  B. Slaty (gneiss). A. Crystalline.              | Sandy.<br>Porphyritic.<br>Graphic.                            | Shorl.<br>Plumbago.<br>Steatite.<br>Diallage.                      |

<sup>\*</sup> No. & (Second Gray-Wacke) is a secondary rock, and embraces the Anthracite coal of the Lehigh river, in 390

## OF ROCKS IN PLACE.

| CAN'T OR                     |  |  |   |
|------------------------------|--|--|---|
| SPECIMENS,<br>CLASSES 4 & 3. | GENERAL STRATA   | VARIETIES.   | imbedded<br>and   |
| CLASSES 4 & J.               | SUBDIVISIONS.  |  | DISSEMINATED.   |
| 20. HALL S!                  | BASALT. B. Greenstone trap * (columnar). A. Amygdaloid (cellular).   | Granular<br>Compact.<br>Toadstone.   | Amethyst,<br>Calcedony,<br>Prehmite,<br>Zeolite,<br>Opal,                     |
| 19                           | THIRD GRAY-<br>WACKE.*  B. Pyritiferous grit.  A. Pyritiferous late. | Conglomerate<br>(breccia).<br>Calcareous grit.<br>Red sandstone;<br>(old red sandstone?)<br>Red: wacke.<br>Argillaceous. | Grindstone. Hornstone? Honeslate. Bituminous shale and coal. Fibrous barytes. |
| 18.                          | Cornitiferous Limerock. B. Skelly. A. Compact.                       |  | Hornstone.  |
| 17.                          | GEODIFEROUS LIMEROCK. B. Sandy. A. Swinestone.                       | Fætid.   | Snow-gypsum.<br>Strontian.<br>Zinc.<br>Fluor spar.                            |
| 16 B                         | Lias.  B. Calciferous grit. A. Calciferous slate.                    | Shell grit.<br>Argillaceous.<br>Conchoidat.  | Shell limestone.<br>Vermicular.<br>Water cement.<br>Gypsum.                   |
| 15 B                         | FERRIFEROUS ROCK. B. Sandy. A. Slaty.                                | Conglomerate,<br>Green. Blue.  | Argillaceous iron ore (reddle).   |
| 14                           | Saliferous<br>Rock.<br>B. Sandy.<br>A. Marl-slate.                   | Conglomerate.<br>Gray-band.<br>Red-sandy.<br>Gray slate.<br>Red slate.   | Salt, or sak springs  |
| B                            | MILLSTONE GRIT.  B. Conglomerate. A. Sandy.                          |  | Coal ?  |

<sup>\*</sup> No 19. (Third Graywacke) is overlaid by Colite, in the State of Ohio. It is the upper secondary of Eake well.

## NOMENCLATURE OF DETRITUS

| CASE OF SPECIMENS, CLASSES 6 & 5. | GENERAL DEPO-<br>SITES AND<br>SUBDIVISIONS.   | VARIETIES.   | IMBEDDED AND<br>DISNEMINATED<br>SUBSTANCES.  |
|-----------------------------------|---|--|--|
| 26.                               | Superficial Anal-<br>LUVION.  B. Granulated (from graywacke).  A. Clay-loam (from argillite). |  | Various boulders.<br>Pehbles.  |
| 25<br>B                           | STRATIFIED ANAL-<br>LUVION.  C. Lias. B. Ferniferous. A. Saliferous.                          |  | Gypsum.<br>Shell limestone.<br>Reddle.   |
| 34                                | Post-diluvion.  B. Sediment.  A. Pebbles (in the rocky bed of a river).                       |  | Various boulders.<br>Trees and herbs.<br>Fish bones and<br>shells.<br>Works of art.    |
| 23,2                              | ULTIMATE DILU-<br>VION<br>(on crag in old fo-<br>rests).                                      | Yellowish gray.<br>Grayish yellow.                     |  |
|                                   | DILUVION  (in an autediluvia) trough).  | Quicksand.<br>Gravel.<br>Vegetable mould.              | Boulders. Trees and leaves. Bones and shells. No works of art.                         |
|                                   | ANTEDILUVION, OR<br>UPPER TERTIARY.*<br>C. Marine, or Bag-<br>shot, sand, and crag.           |  |  |
|                                   | B. Marly clay.  A. Plastic clay.  | Quicksand.<br>Yellow sand.<br>Hardpan.<br>Brick earth. | Pudding-stone.<br>Buhrstone.<br>Bog orc.<br>Shell-marl.<br>Indurated marl<br>Septaria? |

<sup>6</sup> No. 21. (Antediucine) is the genume tertiary formation in New Jersey, along the bay of Amboy. Professor Eaton has considered the most of the destrictory upon which his synopsis was founded. He now frost set at the property of the professor is a supersymmetric three formations: the first series according to the primitive class, the second with the transition, the hind with the lower secondary, the formation with the with the first series according to the professor of the second with the transition, the hind with the lower secondary, the formation of every series is carboniferous, the middle uppers secondary the purpose exclusives. In the carse of a year, this view of the subject will probably be published, fluorence by a geological map of the State of New York. A prodeomus of these series will appear in Sillingaries.

## DEFINITIONS\* OF NAMES ARRANGED IN THE SYNOPSIS.

## Names under the Primitive Class.

1. Grante, is an azgregate of angular masses of quartz, felspar, and mica. Subdivisions.—It is called chrystalline custante proper, when the felspar and quartz present a crystalline, not a staty, form. It is called staty (gneiss) when the mica is so interposed in called sluty (guess) when the mica is so interposed in layers as to present a sluty form. Faretices.—It is graphic when the felspar is in a large proportion, and the quartz is arranged in oblong imisses, so as to present an oppearance resembling Chinese better. It is porphyretic when spotted with cuboid blocks of fespar. This variety is peculiar to the sluty division.

2. Mica-State, is an aggregate of grains of quartz and scales of mica. Subdivisions.—Compact, when the sluty lamines are so closely united, that it will present a uniform smooth face when cut transversely. Fissile, when the lamines sengate readily by a blow

Fissile, when the laminæ separate readily by a blow

upon its surface.

3. HORNBLENDE ROCK, + is an aggregate, not basaltic, consisting wholly, or in part, of hornblende and felspar. Subdivisions.—Granitic, when it presents The appearance of crystalline granite with horoblende substituted for mica. Staty, when of a ritty or tabular structure. Varieties,—Grassocial, when it resembles slaty granite (gneiss) with scales of horoblende substituted for mica. stay grante (guess) who scares of nonlineance socsar-tuted for mica. Greenstone, when of a pretty uniform green colour, and containing but a small proportion of felspar, generally of a slaty structure. Porphyritic, when spotted with cuboid blocks of felspar. Signitic,

when speckled with small irregular masses of felspar.

4. Talcose Slate, is an aggregate of grains of quartz and scales of mica and tale.

† Subdivisions.— Compact, having the laminæ so closely united that a Compact, naving the lammae so closely united that a transverse section may be wrought into a smooth face. When the quartzose particles are very minute and in a large proportion, it is manufactured into scythe-whetstones, called Quinnebog stones. Fizzile, when the laminae separate readily by a blow upon the surface. Varieties,—Chloritic, when coloured green by chlorite. In some localities the chlorite seems to form beds; or rather the rock passes into an aggregate consisting of quartz, mica, talc, and a large proportion of chlorite. Vast beds of pure chlorite are embraced in this rock on

Deerfield river, in Florida, Mass.

5. GRANULAR QUARTZ, consists of grains of quartz united without cement. Subdivisions.—Compact, when it consists of tine grains, so as to appear almost homogeneous; generally in large rhomboidal blocks. Sandy, when the grains are so slightly attached as to be some-what friable. Varieties.—Translucent, when it is so compact and homogeneous as to transmit light. Yellow, when slightly tinged with iron (probably a carbo-nate). Ferruginous, when an aggregate of minute crystals, strongly coloured yellow or red with the carbonate or peroxyde of iron. There is a remarkable locality two miles north of Bennington village, in Ver-Large masses may be found consisting of sixsided crystals, with six-sided pyramids on both ends

6. Granular Limestone, consists of glimmering trains of carbonate of lime united without cement. Subdivisions.—Compact, when it consists of grains of nearly pure carbonate of lime, so closely united that it will take a polish. Sandy, when grains of quartz are aggregated with the grains of carbonate of fime, but 60 loosely as to be somewhat friable. Varieties.—Dolomte, when it consists in part of magnesia, and is friable. Verd-antique, when it is variegated in colour bubble. by the presence of serpentine, giving it more or less of

a clouded green.

Names under the Transition Class. 7. ARGILLITE, is a slate rock of an aluminous

\*Every rock consists, essentially, of one, two, or three, of the following, and homocracous minerals. These are called the generous diplated; and very student interpretate and finalizers based may be a secure of each, taken the progress and finalizers based may be a secure of each taken the minerals the study of geological and the secure of the control of the cont

character and nearly homogeneous, always consisting of tables or laming whose direction forms a large angle with the general direction of the rock. Subdivisions. Clay State, when the argillite is nearly destitute of all griftmess, and contains no scales of mica or tale.

If acke State, when it is somewhat gritty and contains grimmering scales of mica or tale. Varieties.—Roof printiness, then the somewhat gritty and communications. Wanks Abute, when it is somewhat gritty and communication, when the state is susceptible of division into pieces suitable for roofing houses and for ciphering state. Glazid State, when the natural cleavages are fined with a black glazing. This variety contains antinactite ceal and manne organic relies.

8. Pirst Graywacke, is an aggregate of angular grains of quartzose send, united by an argilaceous center. 2 parently disintegrated clay state, and is macer, above the calciferous sandrock. Subdivisions.

eenic., 2; parently disintegrated clay state, and is never above the catesfronts sandrock. Subdivisions.

—Compact, when the grains are so fine and united so compactly, as to be suitable for quarying. Rabble, when the grains, or a part of them, are too large for quarying. This division is often very hard, and sometimes contains felspar, and has the appearance of coarse granite; though some of the largest pebbles are generally rounded. It is often coloured green with chlorite. Every kind of first graywacke is almost horizontal—being a little elevated at the edge next to the primitive rocks only.

the primitive rocks only.

the primitive rocks only.

9. Sparky Limerock, consists of carbonate of lime intermediate in texture between granular and compact; and is traversed by veins of calcaceous spar. Subdivisions—Compact, when the masses or blocks, between the veins of spar, are sufficiently homogeneous and uniform to receive a polish. Slaty, when the rock is in slaty tables or laminar, with transverse veins of calcareous spar. This rock is often cut into very small irregular blocks by the spar, which gives it the name of checkered took.

10. CALCIFEROUS SANDROCK, consists of fine grains 10. CALCIFEROUS SANDROCK, consists of fine grains of quartzose sand and of carborate of line, united without cement, or with an exceeding small proportion. Subdivisions.—Compact, when the rock is uniform, or nearly so, without cells or cavities. Geodiferous, when it contains numerous geodes, or curvilinear cavities; which are empty or tiled with calc spar, quartz crystals, barytes, anthracite, or other mineral substances different from the rock. Varieties.—Oditic, when it contains many of colling of additional colling of a ces different from the rock. Varieties.—Oditic, when it consists in part of colite, of a dark colour, and harder than the kind which is common in the lias or colitic formation of Europe.

11. METALLIFEROUS LIMEROCK, consists of carbo-11. Metalliperous Limbrock, consists of carbonate of line in a homogeneous state, or in a state of petrifactions. Subdivisions.—Compact, when it contains but few perifactions, and issusceptible of a polish. Shelly, when it consists of petrifactions, mostly of bivalve molluscous animals. Variety.—Birdseye marble, when the natural layers are pierced transversely with cylindrical petrifactions, so as to give the birdseye appearance when polished.

12. Specond Graywacker, scarcely distinguished from first graywacke, excepting by its relative position.

from first gray wacke, excepting by its relative position, being always above calciferous sandrock. neing aways above cancerous sanaroca. Sudar-visions.—Compact, when in blocks or slaty, consisting of fine grains. Rubble, when it consists of, or contains large rounded pebbles. The rubble of second grayw acke is in a much smaller proportion than in first gray-wacke. Varieties.—Red sandy, when it passes into red sandstone, which formation occurs in a few locali-ties. Hone-slate, when soft, and suitable for setting a fine adm. General content is an extraction particles. fine edge. Grind-stone, when the quartzose particles are sharp-angular.

Aumes under the Secondary Class.

13. Millstone Grat, is a coasse, hard aggregate of sharp-rang-siar quality of and or pebbles; mostly without any coment, always gray or rusty gray. Subdivisious.—Nanda, when it contains few or no pebbles. Conglomerate, when it consists chiefly of rounded

penoles.

14. Salaperous Rock, consists of red, or bluishgray, sand or clay-marle, or both. The grains of sand are mostly somewhat rounded, and all the varieties of this rock, in some localities, form the floor of salt mines and sait springs. Subdivisions.—Marke-slate, when the rock is soft, slaty, and contains finintegrains of carbonate of lime. Somin, when it is in solid of carbonate of line. Sounds, when it is in some blocks or layers, consisting of red or bluish-gray quart-gosse sand. Varieties.—Gray-band, the uppermost layers of bluish-gray sandrock. Conglomerate, (breedia) consisting chiefly of rounded pebbles, red. gray, or 393

Mount Holyoke, the ransades, on the Hudson river, ec. 15. Furnityencor Rocu, is a soft, slaty, argillaceous, or a hard, sandy, siliceous rock, embracing red argillaceous from ore. Subdivisions,—Staty, consists of green, or bluish-green, smooth soft state, generally immediately under the layer of red argillaceous iron ore. mentately under the layer of rea argumateous from or Sandy, consists of a gray, or rusty-gray, aggregate of quartzose sandrock, in compact blocks or layers, over-laying or embracing red argillaceous iron ore. Variety. laying or embracing red argillaceous iron ore. -Conglomerate, consists of rounded pebbles, cemented together by carbonate or oxide of iron, or adhering without cement

Without cement.

16. Lias, consists of rounded grains of quartzose sand, clay-slate, and sometimes partly of other aluminous compounds, of a dark or light-gray colour, aggregated with fine grains of carbonate of time. Subdivisions.—Calciferous state, when it is of a slaty texture, and the argillaceous and calcareous constituents predominate. Calciferous grit, when it is in blocks or dominate. Calciferous grit, when it is in blocks or thick layers, and the quartzose sand, or sharp grit, predominates. Varieties.—Conchoual, when the slaty kind is separated into small divisions, somewhat of a lenticular form, by natural conchoidal cleavages. Shell grit, when the gritty variety consists, in part, of

petrifactions of quartzose sand.

17. Geodiferous Linerock, (lowest of the colitic formation of Europe,) consists of carbonate of fime, combined with a small proportion of argulite or quartz, componed with a small proportion of agentees quarter in a compact state, mostly detid, and always containing numerous geodes. Subdivisions.—Swinestone, when it contains very little or no quartzose sand, is irregular in structure, feetid and abounds in geodes.

Firegular in structure, feetid and abounds in geodes. Sandy, when it contains quartzose sand, is stratified, scarcely figtid, and contains but few geodes.

18. Corntyferous Limerock, (included in the collite formation of Europe,) cousists of carbonate of lime, embracing hornstone. Subdivisions.—Compact, when the rock is close-grained; and it generally contains hornstone in layers. Shelly, when it consists of shells, and contains hornstone in nodules or irregular

19. THERD GRAYWACKE, (well-known to be embraced in the oolitic formation of Europe; but contains no oolite,) having the character of first and second graywacke in general; but differing in containing much iron pyrites, fine grains of carbonate of lime, in larger or smaller proportion, and in having the quartzose grains mostly rounded.—Subdivisions.—Pyritiferous slate, when the rock has a slaty structure, and zose grains mostly rounded.—Subdivisions.—Pyritiferous slate, when the rock has a slaty structure, and
is in thin lamine or in blocks or thick layers. Pyritiferous grit, when the rock has a silticeous or gritty
structure, containing a large proportion of quartzose
sand or pebbles. Varieties.—Red sandstone, and red
wacke, when the gray rock passes into a dirty orange,
and thence into a red siliceous sandrock. This has
been called old red sandstone; but I do not believe that
such a general stratum is admissible. Conglomerate,
(breccia) when the rock consists chiefly of rounded
pebbles, of a light-red, grayish red, or rust colour.

Names under the Superincumbent Class.

20. Basatt, is a hornblende rock, not primitive, probably of volcanic origin. Subdivisions.—Amygdaloid,
when amorphous, of a compact texture, but containing
cellules, empty or filled. Greenstone trap, when of a
columnar structure, or in angular blocks, often coarse
grained. Variety.—Toadstone, when the amygdaloid
has a warty appearance, and resembles slag.

Names under the Alluvial Class.

21. Annentluvion, or upper Territans, when the
detritus is in layers, so situated that it must have been
deposited from water, while standing over it at a great
darth in nearly a ninescent state.

detritus is in layers, so situated that it must have been deposited from water, while standing over it at a great depth, in nearly a quiescent state. As we have no chalk in North America, and as no tertiary rocks have hitherto been ascertained, this grand division may all be referred to detritus. Subdivisions.—Plastic clay, when it will not effervesce with acids; being desitius of carbonate of lime. Marly clay, when the clay contains fine grains of carbonate of lime, sufficient to effervesce strongly with acids. Marine, or Bagshel, cand and crag, when it consists of quartzose smd, nearly pure, or combined with a little loam, it is called marine sand: when it passes; into a gravelly formameany pure, or combined with a little loam, it is called marine sand; when it passes into a gravelly formation, often containing pudding-stone, beds of clay, &c., it is called crag. Variety.—Hard-pan, when the crag consists of gravel, strongly cemented by clay.

22. Distriction consists of a confused mixture of

22. DILUVION, consists of a confused mixture of

rust-colour, as under the superincumbent rocks at MountHolyoke, the Pälisades, on the Hudson river, &c. 15. FERRIFEROUS ROCK, is a soft, slaty, argillaceous, in a state-of forcible and violent action. To make its or a hard, sandy, siliceous rock, embracing red argil-character perfectly evident, it must be so situated, that the elevation of the water, sufficient for making the deposite, could not have been effected by any existing

23. Ultimate Dilluvion, a thin deposite of yellow-ish-gray loam, reposing on orag or some other sub-stance in ancient uncultivated forest grounds. It is so stance in ancient unculivated forest grounds. It is so situated, that it could not have been produced by the disintegration of any stratum in the vicinity, nor by water when running with much velocity. It appears to have usen deposited from waters greatly elevated, and which had been rendered turbid by violent action, but had become almost quiescent. It may be considered as the last settlings of a deluge.

24. Post-districtor, when the detritus is so arranged that coarse pebbles appear towards the source of the waters which deposited them, and fine sediment more remote.

remote.

Names under the Analluvial Class.

25. STRATIFIED ANALLUVION, is the detritus formed by the disintegration of rock strata, which remains in the situation formerly occupied by the rocks, retaining the same order of superposition. Subdivisions.— These take the names, and retain the essential characters, of the original rocks; as saliferous, ferriferous,

SUPERFICIAL ANALLUVION, is the detritus formed by the disintegration of the exposed surfaces of rocks, and remains on or near the place of disintegration. Subdivisions.—Clay-loam, when the detritus is fine and adhesive. Granulated, when in coarse grains, or friable. The character of the soil depends on the character of the rock disintegrated.

Remarks.

1. The upper part of every general rock-stratum, is either more fissile or more loose and siliceous, than the under part. This affords a natural character for making the two-fold divisions adopted in this nomentation.

2. The upper surface of every general rock-stratum in our district, is destitute of a superimposed rocky evering, for a great distance. This affords a very natural guide for the limit of general strata.

3. By general strata is meant, those deposites of rocks and detritus, which constitute the exterior visible rind of the earth, of nearly equal importance. They may be distinguished from each other by essential character. characters. The most conclusive is relative position -the next in importance is the contents-the last is the constituents. For example, we know the third gray-wacke as the uppermost rock in the regular series of superposition—we know the ferriferous rock from its embracing the argillaceous peroxyde of iron—we know the granite from its consisting of quartz, feld-spar and wise. spar, and mica.
4. The words upper and lower are applied, without

reference to degree of elevation. A stratum is said to be geologically the lowest, or oldest, when it is nearest to the centre of the range of granite towards which it

5. General strata may be very naturally subdivided, are subject to variations in character, and contain beds. Are suggest to variations in character, and consum cours.

Numerous minerals not essential to their respective characters, are found in them in the state of veins and of dissemination. They appear to have become hard, while the strata containing them were in a soft state; for their forms are always impressed in them.

for their forms are always impressed in inem.

6. All strata have their peculiar associates and contents. Therefore a knowledge of strata enables us to foretell the probable discovery of useful minerals. Geologyythen, embraces the "Science of Mining."

7. The bassetting, or out-cropping sides of transition and secondary rocks, at and near the edges approach-

ing primitive rocks, present more of a primitive aspect, ing primitive rocks, present into or a primitive aspect, and contain fewer petrifactions, than other parts of the same rocks. A. J. Gera'sis. (From yeognos, a crane: so called from its supposed resemblance to an extended crane.) A

its supposed resemblance to an extended crane.) A bandage for a fractured clavicle.

GERA'NIUM. (From yenavoc, 2 crane: so called because its pistil is long like the bill of a crane.) Class, Monadelphia; Order, Decandria. The name of a genus of plants in the Linnwan system. Geranum or crane's bill.

appear to be considerable.

["Gerrahium Maculatum. Crane's-bill. The Geranium maculatum is a native (American) plant, common about woods and fences, and conspicuous for its large purple flowers in May and June.

"The root is horizontal, nearly as large as the little finger, tortuous, and full of knobs. To the taste it is a pure and powerful astringent. It abounds with tannin, which is imparted in great quantities both to the tincture and watery solution, and appears to be the hasis of its medicinal efficacy.

basis of its medicinal efficacy

basis of its medicinal efficacy.

"It is applicable to all the purposes of vegetable astringents, being surpassed by very few articles of that class. In various debilitating discharges, particularly from the bowels, it has afforded relief, when the discase has been of a nature to require astringent medicines. In apthous eruptions, and ulcerations of the mouth and throat, a strong decoction has been found beneficial as a gargle. A dose of the powder is twenty or thirty grains, and of a saturated tincture from one to two fluid drachms. The extract of this root is a very powerful astringent, and may be substituted for kino and catechu."—Big. Mat. Med. A.] GERM. See Creculum.

GERMANIDER. See Tenerium chamadrys.

GERMEN. This is the rudiment of the young fruit and seed, and is found at the bottom of the pistil. See Pietitlum. It appears under a variety of shapes and

Pistillum. It appears under a variety of shapes and

. From its figure it is called,

1. Globose; as in Rosa eglantaria, and cinna-

2. Oblong; as in Stellaria biflora.

2. Overng; as in Stettaria oppora.
3. Ovate; as in Rosa canina, and alba.
From its situation, it is distinguished into,
1. Superior, when internal between the corolla; as

in Prunus. Inferior, below and without the corolla; as in Galanthus nivalis.

3. Pedicellate, upon a footstalk; as in the Euphorbia.

It is of great moment, for botanical distinctions, to observe whether it be superior, above the bases of the calyx, or below

GERMINATION. Germinatio. The vital deve-

GERMINATION. Germinatio. The vital development of a seed, when it first begins to grow. GEROCO'MIA. (From γερων, an aged person, and κομεω, to be concerned about.) That part of medicine which regards the regimen and treatment of old age. GERONTOPO'GON. (From γερων, an old man, and πωγων, a beard; so called because its downy seed, while enclosed in the callyx, resembles the beard of an aged man.) The herb old man's beard, a species of tragopogon.

GERONTO'XON. (From γερων, an old person, and rofov, a dart.) I. A small ulcer, like the head of a dart, appearing sometimes in the cornea of old persons.

2. The socket of a tooth.

GENORO'GON. See Gerontopogon.
GENNER, CONRAD, was born at Zurich, in 1516.
His father was killed in the civil war, and left him in such poverty, that he was obliged to become a servant

GERANIUM BATRACHIOIDES. See Geranium practense.

GERANIUM COLUMBINUM. See Geranium rotundifolium.

GERANIUM MOSCHATUM. The adstringent property of this plant has induced practitioners to exhibit it in cases of debility and profituria.

GERANIUM MOSCHATUM. The adstringent property of this plant has induced practitioners to exhibit it in cases of debility and profituria.

GERANIUM PRATENSE. The systematic name of the crow foot crane's-bill. Geranium batrachioides. A plant which possesses adstringent virtues, but in a slight degree.

GERANIUM ROBERTIANUM. Stinking crane's-bill. Herb Robert. This common plant has been much useful as an external application in erysipelatous inflammations, cancer, mastodynia, and old ulcers, but in a fight degree, mastodynia, and old ulcers, but in a fight degree.

GERANIUM ROBERTIANUM. The systematic name of the dove's-foot. Geranium columbinum. This plant is slightly astringent.

GERANIUM SANGUINEM. The systematic name of the Geranium sanguinerium. Bloody crane's-bill. The adstringent virtues ascribed to this plant do not appear to be considerable.

("GERANIUM MACULATUM. Crane's-bill. The Geranium maculatum is a native (American) plant, in maculatum is a native (American) plant, in missif; indeed him to devote some time to study, in which he made great progress; and then utrued his alight in the classics and rhetoric, and then turned his attention to philosophy and then turned his attention to history, and tean the languages, &c. for a livelihood. This enabled him alterward to resume his maive country, and teach the languages, &c. for a livelihood. This enabled him alterward to resume him edicine. But he was soon compelled to return the heavily in the classics and rhetoric, and then turned his attention to hisins and then of plants: he also carefully studied their medical properties, and frequently hazarded his life by experiments on himself; indeed he was at one time reported to have been killed by the root of doronicum. His other occupations prevented his entering very extensively into practice, but his enlarged views rendered him successful; and the profits of his profession enabled him to support the great expense of his favourite pursuits. He gave also many proofs of liberal and active friendship. He died of the plague, in 1565. His chief works are his "Historiz Animalium," In three folio volumes, with wood cuts; and a pharmacoposia, entitled "De Secretis Remediis Thesaurus," which passed through many editions.

copieia, entineu "De Secreus Remedis I nesaurus," which passed through many editions. Gestation, uterine. See Pregnancy. GE'UM. 1. The name of a genus of plants in the Linnean system. Class, Icosandra; Order, Poly-

gynia.

2. The pharmacopœial name of the two following species of this genus.

GEUM RIVALE. The root is the part directed for medicinal uses. It is inodorous, and imparts an austere taste. In America it is in high estimation in the tree of intermittants, and is said to be more efficacious

tere taste. In America it is in high estimation in the cure of intermittents, and is said to be more efficacious than the Peruvian bark. Diarrheas and hæmorrhages are also stopped by its exhibition.

GEUM URBANUM. The systematic name of the herb hennet, or avens. Caryophyllata; Herba bæcdicta; Caryophyllus vulgaris; Garsophylla: Janamunda; Garm—Roribus erectis, fructibus globosis villosis, arietis uncinatis mudis, Joliis liyratis, of Linnaus. The root of this plant has been employed as a gentle styptic, corroborant, and stomachic. It has a mildly austere, somewhat aromatic taste, and a very pleasant smell, of the clove kind. It is also esteemed on the Continent as a febrifage.

GIBBUS. Gibbous; swelled; applied to leaves when swelled on one side or both, from excessive abundance of pulp; as in the Alber retusa.

GIDDINESS. See Vertigo.

GILBERT, WILLIAM, was born at Colchester, in 1540. After studying at Cambridge, he went abroad for improvement, and graduated at some foreign university. He returned with a high character for philosophical and chemical knowledge, and was admitted into the callege of physicians in London, where he set-

sity. He returned with a high character for philosophical and chemical knowledge, and was admitted into the college of physicians in London, where he settled about the year 1573. He was so successful in his practice, that he was at length made first physician to Queen Elizabeth, who allowed him a pension to prosecute philosophical experiments. He died in 1603, leaving his books, apparatus, and minerals, to the college of physicians. His capital work on the magnet was published three years before his death; it is not only the earliest complete system on that subject, but also one of the first specimens of philosophy founded upon experiments; which method the great Lord Bacon afterward so strenuously recommended.

Gilead, balsam. See Amyris gileadensis.

Bacon atterward so strenuously recommended.

Gilead, balsam. See Amyris gileadensis.

GILLIFLOWER. See Dianthus curyophyllus.

["GILENIA TRIPOLIATA. The Gillenia trifoliata is a native, perennial plant, more generally known to cultivators of the American Materia Medica by the Linnman name of Spiraa trifoliata. It grows in and

about woods, in light soil, throughout most parts of the |

Union, excepting the eastern states

The root is much branched and knobby. "In proof is much branched and knobby. It consists of a woody portion, invested with a thick bark, which, when dry, is bettle, and verybitter to the taste. The predominant soluble ingredients appear to be, a bitter extractive matter and resin. When boiled in water, it imparts to it a beautiful red wine-colour, and an intensely bitter taste. The incurre deposites an abundant reasonate regularization and the addition of abundant resinous precipitate on the addition of

"This article is one of the most prominent indige nous emetics, resembling ipecacuanha in its operation, but requiring a large dose. It sometimes fails to pro duce vomiting especially if the portion used has be come old. Thirty grams of the bark of the nort, re come old. Thirty grains of the back of the root, re-cently dried and powdered, are a suitable dose for an centic. In doses so small as not to excite nausen, it has been thought useful as a tonic. The Gillenia strpulacca, of the western states, possesses properties similar to those of this species."—Bigelow's Mat. Med.

Med. A.] GIN. Spiritus Juniperi. Geneva. Hollands. name of a spirit distilled from malt or rye, which after ward undergoes the same process, a second time, with juriper-berries. This is the original and most whole some state of the spirit; but it is now prepared without jumper-berries, and is distilled from turper-line, which gives it something of a similar flavour. The consumpgives it something of a similar flavour. The consumption of this article, especially in the metropolis, is immense, and the consequences are pernicious to the health of the inhabitants.

GINGER. See Zingeber.

GINGIBER. See Zingeber.

GINGIBRA'CHIUM. (From gingiva, the gums, and brachium, the arm.) A name for the scurvy, because the gums, arms, and legs, are affected with it.

GINGI JUMN. A surgies of Jumes.

the guins, arhis, and regs, are affected with it.

Ginoi Dium. A species of Dancus.

Ginoi Dium. A species of Dancus.

Ginoi Dium. From gingiva, the guins, and pes,
the foot.) A name for the scurvy, because the guins,
arms, and legs are affected.

GINGIVE. (From gigno, to beget; because the
teeth are, as it were, born in them.) The guins. See

GINGLYMUS. (Γιγγλυμος, a hinge.) The hinge joint. A species of diarthrosis or moveable conlike joint. nexion of bones, which admits of flexion and extension, as the knee-joint, &c.

GINSENG. An Indian word. See Panax quinquefolium.

GIR. Quick-lime.
GI'RMIR. Tartar.
GITHAGO. A name used by Pliny, for the Lolium,

GIZZARD. The stomach of poultry. Those from white fiesh, have long been considered in France as medicinal. They have been recommended in obstructions of the urinary passages, complaints of the bladder, and nephritic pains; but particularly as a febrifuge. Bouillon Lagrange considers its principal substance as oxygenated gelatine, with a small quantity of extractive matter.

OLEXINATIVE MARIER.

GLABE LLA. (From glaber, smooth; because it is without hair.) The space between the eyebrows.

GLABER. Glabrous; Smooth; applied to stems, leaves, seeds, &c. of plants, and opposed to all kinds of hairiness and pubescence; as in the stem of the Euclidean Action of the Eucl

hairmess and pubescence as in the stem of the Euphorbia populas, and the seeds of Galium montanum.
GLACIES. Ice.
GLADI OLUS. (Diminutive of gladius, a sword, so named from the sword-like stape of his leaf) The name of a genus of plants in the Linnwan system.
Class, Trindria; Order, Monogynia.
GLADIOLUS LUTEUS. See Iris pseudacorus.
GLAMA. Planu. The sources of the eye.
GLAND. Oluns. Glandula. I. In anatomy, an organic part of the body, composed of blood vessels, nerves, and absorbens, and destined for the secretion.

nerves, and absorbents, and destined for the secretion or alteration of some peculiar fluid. The glands of the human body are divided, by anatomists, into dif-ferent classes, either according to their structure, or the fluid they courain. According to their fabric, they are distinguished into four classes

Simple glands.
 Compounds of simple glands.

3. Conglobate glands.

4. Conglomerate glands.

According to their fluid contents, they are more properly divided into.

1. Mucous glands Sepaceous glands.

3. Lymphatic glands.

4. Salival glands 5. Lachrymal glands.

 Laciny marganus.
 Simple glands are small hollow follicles, covered with a peculiar membrane, and having a proper ex-cretory duct, through which they evacuate the liquor contained in their cavity. Such are the indeor contained in their cavity. Such are the mucous glands of the nose, tongue, fauces, trachea, stomach, intestine, and urina y bladder, the sebaceous glands about the anus, and those of the ear. These simple glands are either dispersed here and there, or are configuous to one another, forming a heap in such a man-ner that they are not covered by a common mem-brane, but each hath its own excretory duct, which is never joined to the excretory duct of another gland. The former are termed solitary simple glands, the latter aggregate or congregate simple glands.

2. The compound glands consist of many simple glands, the excretory ducts of which are joined in one common excretory ducts of which are joined in one common excretory duct; as the sebaceous glands of the lace, lips, palate, and various parts of the skin, especially about the pubes.

3. Conglobate, or, as they are also called, lymphatic glands, are those into which lymphatic vessels enter,

and from which they go out again: as the mesenteric, lumbar, &c. They have no excretory duct, but are composed of a texture of lymphatic vesses connected together by cellular membrane: they are the largest in the færus.

4. Conglomerate glands are composed of a congeries 4. Congromerate grams are composed of a congeries of many simple glands, the excretory ducts of which open into one common trunk: as the parotid gland, thyroid gland, pancreas, and all the salival glands. Conglomerate glands differ but little from the com-pound glands, yet they are composed of more simple grant decomposed.

glands than the compound.

The excretory duct of a gland is the duct through which the fluid of the gland is excreted. The vessels and nerves of glands always come from the neighbouring parts, and the arteries appear to possess a high de-gree of invitability. The use of the glands is to sepa-rate a peculiar liquor, or to change it. The use of the conglobate glands is unknown.

In botany, Linuæus defines it, a little tumour

discharging a fluid.

From their situation they are said to be

1. Foliares, when on the surface of the leaf; as in the Gossypium religiosum, which has one gland on the leaf; and Gossypium barbadense, the leaves of which have three.

2. Petiolares, when in the footstalk; as in Prunus

3. Corollares. The claw of the corolla of the Berberis vulgaris has two glands 4. Filamentares, in the filaments; as in Dictamnus

From their adhesion,

1. Glandula sessilis, without any peduncle; as in Prunus cera

2. Glandula pedicillata, furnished with a peduncle; as in Drosera.

Glands are abundant on the stalk and calyx of the moss-rose, and between the serratures of the leaf of the Salix pentandria; on the footstalks of the Vibur-

the Salex pentanaria; on the noistains of the Vibur-num opalias, and various species of passion-flower. The liquor discharged is resinous and fragrant. GLANDORP, MATTHIAS LOUIS, was born at Co-logue, in 1995. Soon after commencing his medical pursuits, he went to Padua, which had at that time great reputation. He improved so much in anatomy under Spigelius, that he was deemed competent to give public demonstrations; and he took his degree in 1618, phone defining a property of the settled in Branne, whence his family originated; and he was so successful in practice, that he was raised to the most honograble offices. He was physicran to the archbishop, and to the republic, when he died in 1640. He left several works, with plates, containing many important observations on anatomy, &c. The prin apal are his "Speculum Chirurgorum," and a Treatise on Issues and Setons. He was very partial to the use of the actual cautery, even in the most common disorders.

GLA'NDULA. (A diminutive of glans, a gland.) See Gland. A small gland.

GLANDULA LACHRYMALIS. See Lachrymal gland. GLANDULE MYRTIFORMES.

tiformes

GLANDULE PACCHIONIE. A number of small, oval, fatty substances, not yet ascertained to be glandular. situated under the dura mater, about the sides of the longitudinal sinus. Their use is not known.

GLANDULOSOCA'RNEUS. An epithet given by Ruysch some excrescences, which he observed in the bladder.

GLANDULOSUS. Glandular. 1. In anatomy, having the appearance, structure, or function of a

2. In botany, applied to leaves which have little glandiform elevations; as the bay-leaved willow, and Hypericum montanum.

Hypericium montanum.
GLANS: A gland, or nut. See Gland.
GLANS FENIS. The very vascular body that forms the apex of the penis. The posterior circle is termed the corona glandis. See Corpus spongiusum urettree.
GLASS: Unis substance was formerly employed.

by surgeons, when roughly powdered, to destroy opacities of the cornea.

Glass of antimony. See Antimony.

Glass-wort, snail-seeded. See Sulsola kali.
GLA STUN. (Quasi callustum; From Callia, who
first used it.) The herb wood. See Isatis tinctoria.
Glauber's salt. A sulphate of soda. It is found
native in Bohemia, and is the produce of art. See

GLAUBERITE. A native crystallized salt, composed of dry suphate of lime, and dry suphate of soda, found in rock salt at Villaruba in Spain.

GLAUCEDO. (From γλανκος, bluish, or greenish tint.) See Glaucoma.

GLAUCEDO. (From γλαυκος, υπαικής σε Glaucoma.

GLAU'CIUM. (So named from its glaucous or seagreen colour. The name of a genus of plants in the Linnaean system. Class, Polyanaria; Order, Monogynia.) The horned poppy.

GLAUCO'MA. (From γλαυκος, blue; because of the eye becoming of a blue, or sea-green colour.) Glaucedo; Glaucosis; Apoglaucosis. I. An opacity of the vitreous humour. It is difficult to ascertain, and is only to be known by a very attentive examination of is only to be known by a very attentive examination of the eye.

2. A species of cataract. See Cataract.
GLAUCO'SIS. See Glauccoma.
GLAUCUS. (Υλαυκος, sea-green.) Stems are
called glaucous which are clothed with a fine-sea-green mealiness, which easily rubs off; as in Chlora per-

JOHATA.

GLECO'MA. (From γληχων, the name of a plant in Dioscorides.) Class, Didynamia; Order, Gymnospermia. The name of a genus of plants in the Linmann system. Ground-try.

GLECOMA HEDERACEA. The systematic name of the

GLECOMA HEDERACEA. The systematic name of the ground ivy, or gill. Hedera terrestris. Glecoma-folias reniformibus crenatis, of Linnaus. This indigenous plant has a peculiar strong smell, and a bitterish somewhat aromatic taste. It is one of those plants which was formerly much esteemed for possessing virtues that, in the present age, cannot be detected. In obstinate coughs, it is a favourite remedy with the

GLE'CHON. (Γληχων.) Pennyroyal. GLECHONI'TES. (From γληχων, pennyroyal.) Wine

GLECTON TES. (From yangus pennytoyan) while impregnated with pennytoyal.

GLEET. In consequence of the repeated attacks of genorrhera, and the debility of the part occasioned thereby, it not unfrequently happens, that a gleet, or constant small discharge takes place, or remains behind, after all danger of infection is removed. Mr. Hunter remarks, that it differs from genorrhera in belief workstone, and in the discharge consisting of ing uninfectious, and in the discharge consisting of globular particles, contained in a slimy mucus, instead of serum. It is unattended with pain, scalding in

glooms in the smallended transfer of serum. It is unaltended transfer of serum. It is unaltended to making of water, &c.

GLENE. Physics. Strictly signifies the cavity or GLENE. Physics. But by some anatomists is also used seeket of the eye; but by some anatomists is also used seeket of the eye; but by some anatomists is also used.

GLENOID. (Glenoides, from  $\gamma\lambda\eta\nu\eta$ , a cavity, and  $t\iota\delta\sigma_{S}$ , resemblance.) The name of articulate cavities of bones.

GLEU'CINUM. (From phenose, must.) An ointerment, in the preparation of which was must.

GLEU'XIS. (From phenose, sweet.) A sweet wine.

GLIADINE. See Gluten.

GLI SCREE. To increase gradually, properly as fire.

GLI SCREE. To increase gradually, properly as fire.

does; but, by physical writers, is sometimes applied to the natural heat and increase of spirits; and by others to the exacerbation of fevers which return pe-

riolicaty.

GLISCHRO'CHOLOS. (From γλισχρος, viscid, and χολη, the bile.) Viscid bilious excrement.

GLISCRA'SMA. (From γλισχραίνω, to become glutinous.) Viscidity.

GLISOMA' 200. White chalk.

GLISSONA RDO. Willie chaik? GLISSON, FRANCIS, was born in Dorsetshire, 1597. He studied at both the English universities; but took his degree of doctor in Cambridge, where he was made Regius professor of Physic, which office he held about forty years. He settled, however, to practites in London, and became a Pellow of the College in 1635; four years after which he was chosen reader of Anatomy, and distinguished himself much by his lectures "De Morbis Partium," which he was requested tures "De Morbis Partium," which he was requested to publish. During the civil wars he retired to Col-chester, where he practised with great ceedit; and was there during the sege of that town by the Parliament-ary forces. He was one of the members of the society, which, about the year 1645, held weekly meetings in London to promote Natural Philosophy: and which having removed to Oxford during the troubles, was having removed to Oxford during the troubles, was augmented after the Restoration, and became ultimately the present Royal Society. He was afterward several years president of the College of Physicians, and died at the advanced age of eighty. He left the following valuable works: 1. A Treatise on the Rickets. 2. The Anatomy of the Liver, which he described much more accurately than any one before, and particularly the capsule of the Vena Portarum, which has since been manned after him. 3. A large metaphysical treatise "De Natura Substantia Energetica," after the manner of Aristotle. 4. A Treatise on the Stomach, Intestines, &c., a well-arranged and comprehensive work, with various new observations, which came out the year before his death. the year befo e his death.

the year beto e its death.

Glesson's Capsule. See Capsule of Glisson.
GLOBATE. See Gland.
GLOBOSUS. Globose. A root is so called which is rounded, and gives off radicles in every direction; as that of the Cyclomen corropeum. The receptacle of the Cyclopeum and Manager than according from the Cephalanthus and Nauclea, are so called from

GLOBULA'RIA. (From globus, a globe: so called from the shape of its flower.) The French

GLOBULA'RIA ALYPUM. The leaves of this plant are used in some parts of Spain in the cure of the venereal disease. It is said to act also as a powerful but safe

GLO BUS. A ball.

GLOBUS. About.

GLOBUS HYSTERICUS. The air rising in the osophagus, and prevented by spasm from reaching the
mouth, is so cailed by authors, because it mostly attends hysteria, and gives the sensation of a ball ascending in the throat.

GLOCHIS. (Γλωχις, cuspis teli.) A pointed hair. A sharp point: used in botany to a bristle-like pubescence, which is turned backwards at its point into

many straight teeth.
GLO'MER. A clue of thread. A term mostly ap-

plied to glands.
GLOMERATE. A gland is so called which is formed of a domer of surguineous vessels, having no eavist, but furnished with an exceetory duct; as the lachryonal and manmary glands GLOMERITA'S. In botainly, a small tuft, or capitalium, mostly in the aviila of the pedamele. GLOSSA GRA. (From γλωσσα, the tongue, and αγρη, a seizure.) A violent tain in the tongue. GLOSSO. From γλωσσα, the tongue. Names compounded with this word belong to muscles, nerves, or vessels, from their being gutached, or cojung to the

or vessels, from their being attached, or going to the

CLOSSO-FILALYNGEAL NERVES. The ninth pair of nerves. They arise from the processes of the cerebellum, which nun to the nodulla spinalts, and tenninate by numerous branches in the muscles of the tongue and pharynx.

GLOSSO-PHARYNGEUS. See Constructor pharyngeus

GLOSSO-STAPHYLINUS. See Constrictor isthmi fau-

ctum.
Glossoca'τοchos. (From χλοσσα, tongue, and κα-τέχο, to hold.) An instrument in P. Ægimeta for de-pressing the tongue. A spantal lingua. The ancient glossocatochus was a sort of forceps, one of the blades

glossocatochus was a sort of forceps, one of the blades of which served to depress the tongue, while the other was applied under the chin.

GLOSSOCELE. (From γλωσα, the tongue, and κηλη, a tumoue) An extrusion of the tongue.

GLOSSOCOM A. (From γλωσα, a tongue, and κομεω, to guard.) By this was formerly meant a case for the tongue, for a hautboy; but the old surgeous, by metaphor, use it to signify an instrument, or case, for containing a fractured limb.

The tappers of the total state of the total state

GLUCINA. (From phases, which signifies sweet, because it gives that taste to the saits in forms.) The name of an earth, for the discovery of which we are indebted to Vauquelin, who found it, in 1795, in the Aigue-marine or beryl, a transparent stone, of a green colour, and in the emerald of Peru. It exists combined with silex, alumine, lime, and oxide of iron, in the one; and with the same earths, and oxide of chrome, in the other. It has lately been discovered in the gadelinite by Mr. Ekeberg.

Glucina is white, light, and soft to the touch. It is inspired, and adheres to the tongue; and is intusible by itself in the fire. Its specific gravity is 2.967. It is soluble in alkalies and their carbonates, and in all the (From yhukus, which signifies sweet,

luble in alkalies and their carbonates, and in all the nade in aikalies and their carbonates, and in all the acids except the carbonic and phosphoric, and forms with them saccharline and slightly astringent saits. It is exceedingly soluble in sulphinic acid used to excess. It is fusible with borax, and forms with it a transparent glass. It absorbs one-fourth of its weight of carbonic acid. It decomposes sulphate of alumine. It is not precipitated by the hydro-sulphurets nor by prus-siate of potassa, but by all the succinates. Its affinity for the acids is intermediate between magnesia and alumine.

To obtain this earth, reduce some beryl to an impal-pable powder, fuse it with three times its weight of potassa, and dissolve the mass in huriatic acid. Se-parate the silex by evaporation and filtration, and de-compose the remaining fluid by adding carbonate of photassa; redissolve the deposite when washed in sul-phuric acid, and by mingling this solution with sul-phate of potassa, alum will be obtained, which crys-

Then mix the fluid with a solution of carbonate of ammonia, which must be used in excess; filter and boil it, and a white powder will gradually fall down,

boil it, and a white powder will gradually fall down, which is glucine.

GLUB. An inspissated jelly made from the parings of hides and other offals, by boiling them in water, straining through a wicker basket, suffering the impurities to subside, and then boiling it a second time. The nrticles should first be digested in lime water, to cleanse them from grease and dirt; then steeped in water, string them well from time to time; and, last-ly, laid in a heap, to have the water pressed out, before they are put into the boller. Some recommend, that the water should be kept as nearly as possible to a boiling heat, without suffering it to enter into collition. In this state it is poured into flat frames or moulds, then cut into square pieces when congented, and afterward dried in a coarse net. It is said to improve by age; and that glue is reckoned the best, which swells considerably without dissolving by three or four days' infusion in cold water, and recovers its which swells considerably without ussorting with or four days' infusion in cold water, and recovers its or four days' infusion in cold water, and recovers its or four days' infusion in cold water, and recovers its former dimensions and properties by drying. Shreds or parings of vellum, parchment, or white leather, make a clear and almost colourless glue.

GLUMA. (Gluma, a glubrado, a husk of corn.) The husk. The peculiar calyx of grasses and grasslike plants, of a chaffy texture, formed of little concave leadets which are called \*caless\*. To the husk belongs the arista, the beard or awn. See Arista.

The gluma is.

The gluma is,

1. Univalve, in Loilum percane.

2. Bivalve, in most grasses.

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Trivalved in Panicum miliaceum.

Mann-valved, in Uniola paniculata (oloured, otherwise than green; as in Holcus

From the number of flowers the husk contains, it is

aned;
1. Gluma uniflora, one-flowered; as in Panicum.
2. G. biflora, with two; as in Aira.
3. G. multiflora, having many; as in Poa and Ancna

Avena.
From the external appearance, the gluma is termed,
I. Glabrous, smooth; as in Holcus laxus.
2. Hispid, briskly; as in Secale orientale.
3. Striate; as in Holcus stratus.
4. Villose; as in Holcus sorgham, Holcus saccharatus, and Bromus purgans.
5. Ciliate, fringed; as in Bromus ciliatus.
6. Beardless; as in Brica and Poa.

7. Awned; as in Hordeum.
GLUMOSUS. A flower is so called, which is ag-

gregate, and has a glumous or husky calyx.
GLUTEAL. Belonging to the buttocks.
GLUTEAL ARTERY. A branch of the internal iliac

GLU'TEN. (Quasigeluten; from gelo, to congeal.)

GLUTEN, ANIMAL. This substance constitutes the basis of the fibres of all the solid parts. It resembles in its properties the gluten of vegetables.

GLUTEN, VEGETABLE. If wheat-flower be made into a paste, and washed in a large quantity of water, it is separated into three distinct substances: a mucilt is separated into three usinites sustaintees: a muchaginous saccharine matter, which is readily dissolved in the liquor, and may be separated from it by evaporation; starch, which is suspended in the fluid, and subsides to the bottom by repose; and gluten, which remains in the hand, and is tenacious, very ductile, somewhat elastic, and of a brown-gray colour. The somewhat elastic, and of a brown-gray colour. The first of these substances does not essentially differ from other saccharine mucilages. The second, namely, the starch, forms a gluey fluid by boiling in water, though it is scarcely, if at all, acted upon by that fluid when cold. Its habitudes and products with the fire, or with nitric acid, are nearly the same as those of gum and of sugar. It appears to be as much more remote from the saline state than gum, as gum is more remote from

The vegetable gluten, though it existed before the washing in the pulverulent form, and has acquired its tenacity and adhesive qualities from the water it has imbibed, is nevertheless totally insoluble in this fluid. It has searcely any taste. When dry, it is semitransparent, and resembles glue in its colour and appearance. If it be drawn out thin, when first obtained, it may be dried by exposure to the air: but if it be exposed to warmth and moisture while wet, it putrefies like an animal substance. The dried gluten applied to the flame of a candle, crackles, swells, and burns, exactly like a feather, or piece of horn. It affords the same products by destructive distillation as animal matters do; is not soluble in alkoind, oils, or ather; and is acted upon by acids and alkalies, when heated. According to Rouelle, it is the same with the caseons The vegetable gluten, though it existed before the According to Rouelle, it is the same with the caseous

According to Rouelle, it is the same with the Caseous substance of milk.

Gluten of Wheat.—Taddey, an Italian chemist, has lately ascertained that the gluten of wheat may be decomposed into two principles, which he has distinguished by the names, eludene (from γλια, gluten, guished by the names, eludene (from γλια, gluten, and eludene from ζυιη, ferment.) They are obtained in a separate state by kneading the fresh gluten in successive portions of alkohol, as long as that liquid continues to become milky, when diluted with water. The alkohol solutions heing set asside, gradually deposite a whitish matter, consisting of small filaments of gluten, and become perfectly transparent. Being now gluten, and become perfectly transparent. Being now left to slow evaporation, the gliadine remains behind, of the consistence of honey, and mixed with a little of the consistence of noney, and maker with a nine yellow resinous matter, from which it may be freed by digestion in sulphuric either, in which gladene is not sensibly soluble. The portion of the glaten not dissolved

sensibly soluble. The portion of the gatten not dissolved by the alkohol is the zimome. Properties of Gludine.—When dry, it has a straw-yellow colour, slightly transparent, and in thin plates, brittle, having a slight smell, similar to that of honeycomb, and, when slightly heated, giving out an odour similar to that of horied apples. In the month, it be-comes adhesive, and has a sweetish and balsamic

taste. It is pretty soluble in boiling aixohol, which I oses its transparency in proportion as it cools, and then retains only a small quantity in solution. It forms a kind of varnish in those bodies to which it is applied. It softens, but does not dissolve in cold distilled water. At a boiling heat it is converted into froth, and the liquid remains slightly milky. It is specifically heavier

The alkoholic solution of gliadine becomes milky when mixed with water, and is precipitated in white flocks by the alkaline carbonates. It is scarcely affected by the mineral and vegetable acids. Dry gliadine dissolves in caustic alkalies and in acids. swells upon red-hot coals, and then contracts in the manner of animal substances. It burns with a pretty lively flame, and leaves behind it a light spongy chartroop, name, due textes bemind it a ight sponge char-toal, difficult to incinerate. Gliadine, in some re-spects, approaches the properties of resins; but differs from them in being insoluble in sulphuric ather. It is very sensibly affected by the infusion of nut-galls. It is capable of itself of undergoing a slow fermentation, and produces fermentation in saccharine substances. From the flour of barley, rye, or oats, no gluten can be extracted as from that of wheat, probably because

they contain too small a quantity. The residue of wheat which is not dissolved in al-kohol, is called *zimomv*. If this be boiled repeatedly in

alkohol, it is obtained pure.

Zimome thus puritied has the form of small globules, or constitutes a shapeless mass, which is hard, tough, destitute of cohesion, and of an ash-white colour. When washed in water, it recovers part of its visco-sity, and becomes quickly brown, when left in contact with the air. It is specifically heavier than water. Its mode of fermenting is no longer that of gluten; for when it purifies it exhales a fætid urinous odour. It dissolves completely in vinegar, and in the mineral acids at a boiling temperature. With caustic potassa, it combines and forms a kind of soap. When put into lime water, or into the solutions of the alkaline carbonates, it becomes harder, and assumes a new appearance without dissolving. When thrown upon red-hot coals, it exhales an odour similar to that of burning hair or hoofs, and burns with flame.

Zimome is to be found in several parts of vegetables. It produces various kinds of fermentation, according to the nature of the substance with which it comes in

CONTACT.

GLUTE'US. (From γλουτος, the buttocks.) The name of some muscles of the buttocks.

GLUTEUS MAXIMUS. Gluteus magnus of Albinus. Gluteus major of Cowper; and Ilio sacro femoral of Dumas. A broad radiated muscle, on which we sit, is divided into a number of strong fasciculi, is covered by a pretty thick aponeurosis derived from the fascia lata, and is situated immediately under the integuments. It arises fleshy from the outer lip of somewhat more than the posterior half of the spine of the ilium, from the ligaments that cover the two posterior spinous from the posterior sacro-ischiatic ligament; processes; from the posterior sacro-ischiatic ligament and from the outer sides of the os sacrum and os coccygis. From these origins the fibres of the muscle run towards the great trochanter of the os femoris, where they form a broad and thick tendon, between which and the trochanter there is a considerable bursa mu This tendon is inserted into the upper part of cosa. This tendon is inserted into the approximate the linea aspera, for the space of two or three inches downwards; and sends off fibres to the fascia lata, and to the upper extremity of the vastus externus. This muscle serves to extend the thigh, by pulling it directly backwards: at the same time it draws it a little outwards, and thus assists in its rotatory motion. origin from the coccyx seems to prevent that bone from being forced too far backwards.

GLUTEUS MEDIUS. Ilie trochanterien of Dumas. The posterior half of this muscle is covered by the gluteus maximus, which it greatly resembles in shape ; gittens maximus, which it greatly resembles in shape; but the anterior and upper par? of it is covered only by the integuments, and by a tendinous membrane which belongs to the fascin lata. It arises fleshy from the outer lip of the anterior part of the spine of the iliun, from part of the posterior surface of that bone, and likewise from the fascia that covers it. From these origins its fibres run towards the great trocharter, into the outer and materiae and of which it, incorrect to the outer and posterior part of which it is inserted by a broad tenden. Between this tenden and the trochanter there is a small thin bursa mucosa. The uses of

this muscle are nearly the same as those of the glu-teus maximus; but it is not confined, like that musele, to rolling the os femoris outwards, its anterior portion being capable of turning that bone a little inwards. As it has no origin from the coccyx, it can have no effect on that bone.

GLUTEUS MINIMUS. Glutœus minor of Albinus and Cowper; and Hio ischii trochanterien of Dumas. A radiated mosele, is situated under the glueus medius. In adults, and especially in old subjects, its outer surface is usually tendinous. It arises fleshy between the two semicircular ridges we observe on the outer surface of the illum, and likewise from the edge of its great niche. Its fibres run, in different direc-tions, towards a thick flat tendon, which adheres to a capsular ligament of the joint, and is inserted into the fore and upper part of the great trochanter. A small bursa mucosa may be observed between the tendon of this muscle and the trochanter. This muscle assists the two former in drawing the thigh backwards and outwards, and in rolling it. It may likewise serve to prevent the capsular ligament from being pinched in

prevent the capsular ngament from being pinenes in the motions of the joint. GLUTIA. (From γλουτος, the buttocks.) The buttocks. See Nates GLUTTIVATENS. (From gluitus, the throat, and pateo, to extend.) The stomach, which is an extension of the throat

GLUTUS (Γλουτος; from γλοιος, filthy.) The buttock. See Nates.
GLYCA'SMA. (From γλυκυς, sweet.) A sweet me-

dicated wine. GLYCYPI'CROS. (From γλυκυς, sweet, and πικρος, bitter: so called from its bitterish-sweet taste.) See

Solanum dulcamara. GLYCYRRHIZA. (From γλυκυς, sweet, and ριζα, a root.) 1. The name of a genus of plants in the Linnæan system. Class, Diadelphia; Order, De-

2. The pharmacopæial name of liquorice.

Glycyrrhiza glabra.
GLYCYRRHIZA ECHINATA. This species of liquorice

GLYCYRRHIZA ECHINATA. This species of liquorice is substituted in some places for the root of the glabra. GLYCYRRHIZA GLABRA. The systematic name of the officinal liquorice. Glycyrrhiza; leguminibus glabris, stipulis nullis, folioi impari peticulato. A native of the south of Europe, but cultivated in Britain. The root contains a great quantity of saccharine matter, joined with some proportion of mucilage, and hence it has a viscid sweet taste. It is in common use as a pertoral or repollient, in catarrhal deflutions. use as a pectoral or emollient, in catarrhal defluxions on the breast, coughs, hoarsenesses, &c. Infusions, or the extract made from it, which is called Spanish liquorice, afford likewise very commodious vehicles for the exhibition of other medicines; the liquorice taste concealing that of unpalatable drugs more effectually than syrups or any of the sweets of the saccharine kind.

GLYCYSA'NCON. (From ylukus, sweet, and aykuv, the elbow: so called from its sweetish taste, and its inflections, or elbows at the joints.) A species of south-

GNAPHA'LIUM. (From ywapalow, cotton: so named from its soft downy surface.) I. The name of a genus of plants in the Linnaean system. Class, Syngemesia; Order, Polygamia superflua.

2. The pharmacopeial name of the herb cotton weed. See Gnaphatium dioicum.
GNAPHALIUM ARENARIUM. The flowers of this plant, as well as those of the gnaphalium steechas, are called, in the pharmacopeias, flores elichrysi. See Gnaphatium steechas.
GNAPHALIUM DIOICUM.

GNAPHALIUM BIOICUM. The systematic name of the pes cati. Gnaphalium albinum. Cotton weed. The flores gnaphaliu of the pharmacopæias, called also flores hispidulæ, seu pedis cati, are the produce of this plant. They are now quite obsolete, but were for merly used as astringents, and recommended in the cure of hooping-cough, phthisis pulmoralis, and harmaches. The systematic name of

mophysis.

GNAPHALIUM STECHAS. The systematic name of Goldilocks. Elichnysum; Suchas citrina. The flowers of this small downy plant are warm, pungent, and bitter, and said to possess aperient and corroborant

GNA THUS. (From γναπ ζω, to bend; so called from their curvature.) 1. The jaw, or jaw-hones.

A compound rock, consisting of felsnar, quartz, and man a, dr posed in states, from the prepon-

duratic, or the fined sectors.

GNEPICS. A term applied by Hippocrates, and others state, to some medicinal precepts wrote in the

Goat's-rue. See Galega.

Gont's Store, See Gatega. Goat's thorn, See Astrogalus verus, GOAT WEED., See Oscopadium, GODT WEED., See Oscopadium podagravia. GODDARD, Jassitaan, was born at Greenwich, in 1617. After studying at Oxford, and travelling for improvement, he graduated at Cambridge, and settled to practise in London. He was elected a Fellow of the Codege of Physicians in 1646, and, the following year, appointed Locatice, on Anatonay. He formed a So-ciety for Experimental Inquiry, which met at his loans, and he was a superior of the control of th house; and he was very assiduous in promoting its objects. Having gained considerable reputation, and Objects. Having gamed construction represented by sided with the popular party, he was appointed by Cromwell chief physician to the army, and attended limi insome of his expeditions. Cromwell then made blim warden of Merton College, Oxford, afterward sole thin warden of Merton College, Oxford, afterward sole representative of that university in the short parliament, in 1653, and in the same year one of the Council of State. On the Restoration, being driven from Oxford, he removed to Greskam College, where he had been chosen Professor of Physic. Here he continued to frequent those mertings, "sich gave brith to the Royal Society, and he was nominated one of the first council of that institution. He was an able and conscientions practitioner; and was induced, partly from the love of experimental chemistry, but principally from doubling the comparatory of another arises to prefrom doubting the competency of apothecaries, to prefrom doubting the competency of apothecaries, to prepare his own medicines: in which, however, thinding numerous obstacles, he published "A Discourse, setting forth the unhappy Condition of the Practice of Physic in London," but this was of no avail. Two papers of his appeared in the Philosophical Transactions, and 1 any others in Birch's History of the Royal Society. He died in 1674, of an apophecia stroke. GOELICKE, Anonew Orrow, a German physician, acquired considerable reputation in the beginning of the eighteenth century, as a medical modessor.

ning of the eighteenth century, as a medical professor, and especially as an advocate of the doctrines of Stabil. He left several works which relate principally to the History of Anatomy, &c., particularly the "Historia Medicinar Universalis," which was published in six different portions, between the years 1717 and 1720.

Goitre. See Bronchocele.

Gottre. See Bronchocele.
Gottp. Jurum. As metal found in nature only in a metallic state; most commonly in grains, ramilications, leaves, or crystals, rhomboidal, octahedral, or pyramidal. Its matrix is generally quartz, sandstone, siliceous schistus, &c. It is found also in the sands of many rivers, particularly in Africa, flungary, and France, in minute irregular grains, alled gold dust. Native gold, found in compact messes, is never completely pure; it is alloyed with silver, or copper, and sometimes with iron and tellurium. The largest piece of native gold that has been litherto discovered in Europe, was found in the county of Wicklow, in Ireland. Its weight was said to be twenty-two ounces, and the quantity of alloy it contained was very small. Several other ricees, exceeding one ounce, have also Several other pieces, exceeding one ounce, have also been discovered at the same place, in sand, covered

with turf, and adjacent to a rivulet.
Gold is also met with in a particular sort of argentiferous copper parties, called, in Hungary, Golf. This ore is found either massive, or crystallized in rhomboids, or other irregular quadrangular or polygonal masses. It exists likewise in the sulphurated ores of Nigaya in Transplyania. These all contain the metal called tellurium. Berthollet, and other French chanists, have obtained gold out of the asbes of vege-

tables,
GOLDEN-ROD. See Rammeulus.
GOLDEN-ROD. See Soldingo virga aurea.
Golden madershair. See Folgheednam commune.
GOLDEN-ROD. See Gongshelenn stochus
[GOLDEN-READ. See Copuls terjoha. A.]
GOMPHI ASIS. (From youghos, a nail.) Gomphiasmus. A disease of the teeth, when they are loosened
from the sockets, like nails drawn out of the wood.
GOMPHI ASIS. See Gonubiuss.

cause they are as nails driven into their sockets.) The is nies molares, or grinding teeth.

Complete at Sec Goophisses.

GOOPERS F. From yappers, to drive to a nail.)

Complete Aspects or faint cable connexton of homes, in which one bone is fixed in another, like a nail in a board, as the teeth in the alveoli of the jaws.

in a nonral as the teeth in the alveolt of the jaws.

GONA LGIA. See Goundgra.

GONA GRA. (From yore, the knee, and αγρα, α seizme) The gout in the knee.

GONE. yorn) 1. The seed.

(i) NE. γονη ) 1. The seed.
2. In Hippocrates it is the uterus.

GONG. Tam tum. A species of cymbal which produces a very loud sound when struck. It is an allop of about eighty parts of copper with twenty of

GONGRO'NA. (From yoyyoos, a hard knot.) 1.

2. A knot in the trunk of a tree.

3. A hard round tumour of the nervous parts; but particularly a bronchocele, or other hard tumour of the

GONGO (From γογγυλος, round.) A pill. GONIOMETER. An instrument for measuring the

angles of crystals.

GONOI'DES. (From youn, seed, and stdos, form.) Resembling seed. Hippocrates often uses it as an epithet for the excrements of the belly, and for the contents of the urine, when there is something in them which resembles the seminal matter.

GONORRHIE A. (From youn, the semen, and  $o_{E\omega}$ , to flow; from a supposition of the ancients, that it was a seminal flux.) A genus of disease in the class Locales, and order Apocenoses, of Dr. Cullen's arrangement, who defines it a preternatural flux of fluid from the urethra in males, with or without flidinous desires. Femaies, however, are subject to the same complaint in some forms. He makes four species, viz.

1 Governham pure or bengma; a puriform discharge from the wrethra, without dysuria, or lascivious

inclination, and not following an impure connexion.

2. Generobea impara, maligna, suphilitica, viru-lenta; a discharge resembling pus, from the urethus, with heat of nirue, &c., after impure coition, to which often succeeds a discharge of mucus from the urellura, with little or no dysury, called a gleet. This disease often succeeds a discharge of mucus from the urefura, with little or no dystry, called a gleet. This disease is also called Finor alhow malignus. Blommerhague, by Swediaur. In English, a clap, from the old French word clapises, which were public shops, kept and inhabited by single prostitutes, and generally confined to a particular quarter of the town, as is even now the case is several of the great towns in Italy. In Germany, the disorder is named trepper, from dipping; and in French, chemapisse, from the heat and scalding in making water. in making water.

No certain rule can be laid down with regard to the time that a clap will take before it makes its appearance, after injection has been conveyed. With some persons it will show itself in the course of three or four days, while, with others, there will not be the least appearance of it before the expiration of some weeks. appearance of a before the expiration of some weeks. It most usually is perceptible, however, in the space of from six to fourteen days, and in a male, begins with an uneasiness about the purts of generation, such as an itching in the glaus penus, and a soremess and tingling sensation along the whole course of the ure-than; seem after which, the person perceives an appearance of whitish master at its ordice, and also some

In the course of a few days, the discharge of matter will increase considerably; will assume, most proba-bly, a zreenish or yellowish hue, and will become thinter, and lose its adhesiveness: the parts will also be occupied with some degree of redness and inflammation, in consequence of which the glans will put on the appearance of a ripe cherry, the stream of urine will the smaller than usual, owing to the canal being made narrower by the inflamed state of its internal mem-brane, and a considerable degree of pain, and scalding heat will be experienced on every attempt to make

Where the inflammation prevails in a very high degree, it prevents the extension of the arctina, on the taking place of any election, so that the penis is, at that time, curved downwards, with great pain, which is much increased, if attempted to be raised towards Gomphia sacs. See Gomphiases.

Gomphia (From γομφος, a nail: so cailed bethe belly, and the stimulus occasions it often to be

erected, particularly when the patient is warm in bed, ; perience no other inconvenience than the discharge, and so deprives him of sleep, producing, in some cases, an involuntary emission of semen.

In consequence of the inflammation, it sometimes happens that, at the time of making water, owing to the rupture of some small blood-vessel, a slight hæmorrhage ensues, and a small quantity of blood is voided In consequence of inflammation, the prepuce likewise becomes often so swelled at the end, that it cannot be becomes ough so swenged at the Fig. that it calmot be drawn back, which symptom is called a phinosis; or, that being drawn behind the glans, it cannot be re-turned, which is known by the name of paraphimosis. Now and then, from the same cause, little hard swellings arise on the lower surface of the penis, along the course of the urethra, and these perhaps suppurate and form into fistulous sores

The adjacent parts sympathizing with those already affected, the bladder becomes irritable, and incapable of retaining the urine for any length of time, which gives the patient a frequent inclination to make water. and he feels an uneasiness about the scrotum, perinaum, and fundament. Moreover, the glands of the groins grow indurated and enlarged, or perhaps the testicles become swelled and inflamed, in consequence of which he experiences excruciating pains, extending from the seat of the complaint up into the small of the back, he gets hot matic fever arises. he gets hot and restless, and a small sympto-

Where the parts are not occupied by much inflammation, few or none of the last-mentioned symptoms will arise, and only a discharge with a slight heat or

scalding in making water will prevail.

If a gonorchosa be neither irritated by any irregularity of the patient, nor prolonged by the want of timely and proper assistance, then, in the course of about a fortnight, or three weeks, the discharge, from having been thin and discoloured at first, will become thick, white, and of a ropy consistence; and from baving gradually began to diminish in quantity, will at last cease entirely, together with every inflammatory symptom whatever; whereas, on the contrary, if the patient has led a life of intemperance and sensuality, has particlen freely of the bottle and high-seasoned meats, and has, at the same time, neglected to pursue the necessary means, it may then continue for many weeks or mouths; and, on going off, may leave a weakness or gleet behind it, besides being accompa-Wetheress or guest nermit it, declares more described in ineed with the risk of giving rise, at some distant period, to a constitutional affection, especially if there has been a neglect of proper cleanliness; for where vene-real matter has been suffered to lodge between the prepuce and glans penis for any time, so as to have oc-casioned either excoriation or ulceration, there will always be danger of its having been absorbed.

Another risk, arising from the long continuance of a gonorrhea, especially if it has been attended with inflammatory symptoms, or has been of frequent recurrence, is the taking place of one or more strictures in the methra. These are sure to occasion a considerable degree of difficulty, as well as pain, in making water, and, instead of its being discharged in a free and uninterrupted stream, it splits into two, or perhaps is voided drop by drop. Such affections become, from neglect, of a most serious and dangerous nature, as they not unfrequently block up the urethra, so as to induce a total suppression of urine.

Where the gonorrhea has been of long standing, warty excrescences are likewise apt to arise about the parts of generation, owing to the matter falling and lodging thereon; and they not unfrequently prove both

numerous and troublesome

Having noticed every symptom which usually attends on gonorrhea, in the male sex, it will only be necessary to observe, that the same heat and soreness in making water, and the same discharge of discoloured mucus, together with a slight pain in walking, and an uneasiness in sitting, take place in females as in the former; but as the parts in women, which are most apt to be affected by the venereal poison, are less complex in their nature, and fewer in number, than in men, so of course the former are not liable to many of the symptoms which the latter are; and, from the urinary canal being much shorter, and of a more simple form, in them than in men, they are seldom, if ever, incomminded by the taking place of strictures.

With women, it indeed often happens, that all the

symptoms of a gonorrhea are so very slight, they ex-

except perhaps immediately after menstruation, at which period, it is no uncommon occurrence for them to perceive some degree of aggravation in the symp-

Women of a relaxed habit, and such as have had frequent miscarriages, are apt to be afflicted with a disease known by the name of fluor albus, which it is disease known by the name or have above, often difficult to distinguish from gonorrhea virulenta, as the matter discharged in both is, in many cases, of the same colour and consistence. The surest way of the same colour and consistence. The surest way of forming a just conclusion, in instances of this nature, will be to draw it from an accurate investigation, both of the symptoms which are present and those which to the symptoms which are present and those which have preceded the discharge; as likewise from the concurring circumstances, such as the character and mode of life of the person, and the probability there may be of her having had venercal infection conveyed to her by any connexion in which she may be engaged.

Not long ago, it was generally supposed that gonor-rhoa depended always upon ulcers in the urethra, producing a discharge of purulent matter; and such aleers do, indeed, occur in consequence of a high degree of inflammation and suppuration; but many dissections of persons, who have died while labouring under a gonorrhoa, have clearly shown that the disease may, and often does, exist without any ulceration in the urethra, so that the discharge which appears is usually of a vitiated mucus, thrown out from the mucous folli-cles of the urethra. On opening this canal, in recent cases, it usually appears red and inflamed; its mucous cases, it usually appears red and inflamed; its functions glands are somewhite inlarged, and its cavity is filled with matter to within a small distance from its extremity. Where the disease has been of long continuance, its surface all along, even to the bladder, is generally found pale and relaxed, without any crosion.

3. Genorrhwa laworum, libulmosa; a pellucid discharge from the urethra, without erection of the penis, but with venereal thoughts while awake.

4. Gonorrhaa dormientium. Oneirogonos. When, during sleep, but dreaming of venereal engagements, there is an erection of the penis, and a seminal dis-

GONORHEA BALANI. A species of gonorrhea affecting the glans penis only.
GONYA LGIA. (From γονυ, the knee, and αλγος, pain.) Gonualgua; Gonulgua. Gout in the knee.
GOOSE. Anser. The Anser domesticus, or tame

GOOSE-FOOT. See Chenopodium.
GOOSE-GRASS. See Galium aparine.
GO'RDIUS. 1. The name of a genus of the Order

Vermes, of animals.

Vermes, of animals.

2. The gordius, or half-tail worm, of old writers, which is the seta equina found in stagnant marshes and ditches in Lapland, and other places.

GORDIUS MEDINENSIS. The systematic name of a curious animal. See Medinensis vena.

GORGONIA. The name of a genus of corals.

GORGONIA. In ename or a genus of corais.
GORGONIA NOBLIS. The red coral.
GOSSYPIUM. (From gotne, whence gottipium,
Egyptian.) I. The name of a genus of plants in the
Linnaan system. Class, Monadelphia; Order, Poly-

2. The pharmacopæial name of the cotton-tree. See

Gossypium herbaccum.

The systematic name GOSSYPIUM HERBACKUM. of the cotton-plant. Gossyprium; Bombars. Gossyprium—folius quinquelobis subtus eglandulosis, caulo herbaceo, of Linneus. The seeds are directed for medicinal use in some foreign pharmacopeias; and are administered in coughs, on account of the muclage they contain. The cotton, the produce of this tree, is well known for domestic purposes.

[Besides the Gossypium herbaceum, there are other producing colton-wool, some of which is of a fawn-colour, found in Peru, and used by the natives of the country. Which of the following species it is, we have not been able to ascertain. Persoon, in his Synopsis Plantarum, gives the ten following species

of Gossypium, viz.

1. Gossypium herbaceum. micranthum. 6. Gossypium hirsutum:

religiosum. latifolium. barbadense.

9. barbadense.
10. peruvianum. A.]
Goulard's Extract. A saturated solution of acetate of lead. See Plumbi acetates liquor.
GOULSTON, TheoDork, was born in Northamptonshire. After studying medicine at Oxford, he practised for a time with considerable reputation at Wymondham, of which his father was rector. Having taken his doctor's degree in 1610, he removed to London, and became a fellow of the College of Physicians. He was much esteemed for classical and theological learning, as well as in his profession. He died in 1632, and bequeathed £200 to purchase a rent-charge for maintaining an annual Pathological Locture, to be read at the college by one of the four junior doctors. He at the college by one of the four junior decture, to be read at the college by one of the four junior dectors. He translated and wrote learned notes on some of the works of Aristotle and Galen; of which the latter were not published ill after his death.

not published till after his death.
GOURD. See Cucurbita.
GOURD. See Cucurbita.
GOUT. See Arthritis, and Podagra.
GOUT. See Arthritis, and Podagra.
GRAAF, REINIER DE, was born at Schoonhove, in
Holland, 1641. He studied physic at Leyden, where
he made great progress, and at the age of twenty-two
published his treatise. De Succo Pancreatico, which
gained him considerable reputation. Two years after
he went to France, and graduated at Angers; he then
returned to his native country, and settled at Delft,
where he was very successful in practice; but he died where he was very successful in practice; but he died at the early age of thirty-two. He published three dissertations relative to the organs of generation in both seves; upon which he had a controversy with Swammerdam.

GRA'CILIS. (So named from its smallness.) GRA'CILIS. (So named from its smallness) Retus interior femories, sive gracilis interior of Winslow. Sous public creticalistic of Dunnas. A long, straight, and tender muscle, situated immediately under the integuments, at the inner part of the thigh. It arises by a broad and thin tendon, from the anterior part of the ischium and publis, and soon becoming fleshy, descends nearly in a straight direction along the inside of the thigh. A little above the knee, it terminates in a slender and roundish tendon, which afterward becomes flatter, and is inserted into the middle of the tibia behind and under the santorius. Under of the tibia, behind and under the sartorius. the tendons of this and the rectus, there is a considerable bursa mucosa, which on one side adheres to them and to the tendon of the semitendinosus, and on the other to the capsular ligament of the knee. le assists in bending the thigh and leg inwards.
GRÆCUS. The trivial name of some herbs found

in or brought from Greece.

GRAFTING. Budding and inoculating is the process of uniting the branches or buds of two or more separate trees. The bud or branch of one tree, accompanied by a portion of its bark, is inserted into the bark of another, and the tree which is thus engrafted upon is caused the stock. By this mode different kinds upon a camed me stock. By this mode different kinds of fruits, pears, apples, plums, &c., each of which is only a variety accidentally raised from seed, but no further perpetuated in the same manner, are multiplied; buds of the kind wanted to be propagated, being engrafted on so many stalks of a wild nature. GRA'MEN. (Gramen, inis. n.) Grass, Any kind of grass-like herb.

of grass-like herb.

Gramen Arundinacrum. See Calamagrostis.
Gramen Cannum. See Triticum repeas.
Gramen Cannum. See Triticum repeas.
Gramen orderes experiodis.
Gramen orderes experiodis.
The roots and plants possess the same virtues as the clor's grass, and are serviceable in the earlier stages of dropsy. They are supposed to correct the bad smell of the breath, and to relieve nephritic disorders, colics, &c., although now neglected.
Gramma. The sordes of the eyes.
Gramma. The sordes of the eyes.
Gramma. The young, all him: so called from its

GRANAULTILLE See Premotive.

GRANAULTILLE See Premotive.

GRANAULTILLE See Tremotive so called from its line as appearance.) The iris of the eye.

GRANAULTILL (Diminutive of granado, a pomegranate, Spanish: so called because at the top of the flower there are points, like the grains of the pomegranate.) The passion-flower, the full of which is said to possess refigurating, qualities. to possess refrigerating qualities.

GRANATITE. See Grenatite.
GRANATRI STUM. A bile or carbuncle.
GRANATUM. (From granum, a grain, because in is full of seed.) The pomegranate. See Punica gran

natum.

Grande Balak. (Quod in grandioribus atate nascantur, because they appear in those who are advanced in years.) The bairs under the arm-pits.

Grandinosum os. The os cuboides.

GRANDE (Grando, inis. f. Quod similitudinem granorum habeat, because it is in shape and size like a grain of seed.)

1. Hail. 2. A moveable tumour on the margin of the eyelid

2. A moveable tumour on the margin of the eyear is so called, from its likeness to a half-stone.
GRANITE. A compound rock consisting of quarts, felspar, and mica, each crystallized, and cohering by mutual affinity without any basis or cement.
GRANULA'TION. (Granulatic; from granum, a grain.) '1. In surgery: The little grainlike fleshy bodies which form on the surfaces of ulcers and suppurating wounds, and serve both for filling up the cavities, and bringing nearer together and uniting their

sides, are called granulations.

sides, are called granulations.

Arture is supposed to be active in bringing parts as nearly as possible to their original state, whose disposition, action, and structure, have been altered by accident, or disease; and after having, in her operations for this purpose, formed pus, she immediately sets about forning a new matter upon surfaces, in which there has been a breach of continuity. This process is called granulating or incarnation; and the substance formed is called granulations. The colour of healthy granulations is a deep florid red. When tivid, they are unhealthy, and have only a langual circular heatiny granulations is a deep nortic red. When it via they are unheatiny, and have only a languid circulation. Healthy granulations, on an exposed or flat surface, rise nearly even with the surface of the surrounding skin, and often a little higher; but when they exceed this, and take on a growing disposition, they are unhealthy, become soft, spongy, and without any disposition to form skin. Healthy granulations are

always prone to unite to each other, so as to be the means of uniting parts.

2. In chemistry: The method of dividing metallic substances into grains or small particles, in order to facilitate their combination with other substances, and sometimes for the purpose of readily subdividing them

GRANULATUS. Granulated. Applied to ulcers and to parts of plants. A root is so called which is jointed; as that of the Oxalis acctocella.

GRA'NUM. (Granum, i. n.) A grain or kernel.

GRANUM CNIDIUM. See Daphne mezereum. GRANUM INESCTORIUM. Kermes berries. GRANUM KERMES. Kermes berries. GRANUM MOSCHL. See Hibiscus abelmoschus

GRANUM PARADISI. See Amomum.
GRANUM REGIUM. The castor-oil seed.
GRANUM TIGLII. See Croton tiglium.
GRANUM TINOTORIÆ. Kermes berries.

GRANDM TINGTORIE. Kernes berries.
GRAPHIC ORE. An ore of tellurium.
GRAPHIOTDES. (From γραφις, a pencil, and ειδος, a form.) 1. The styliform process of the os temporis

2. A process of the ulna.
3. The digastricus was formerly so called from its

s. The digastricus was formerly so called from its supposed origin from the above-mentioned process of the temporal bone GRAPHITE. Rhomboidal graphite of Jameson, or plambago, or black-lead, of which he gives two subspecies, the scaly and compact.

Species, the scaly and compact.
GRA SSA. Borax.
GRATI'OLA. (Diminutive of gratia, so named
from its supposed admirable qualities.) Hyssop.
1. The name of a genus of plants in the Linnean
system. Class, Diaméria: Order, Monagynia.
2. The pharmacopeial name of the hedge-hyssop.

See Gratiola officinalis.

See Gratola officinalis. The systematic name of the hedge-syssop. Digitalis minima; Gratia dei; Gratola centauriodes. This exotic plant, the Gratola centauriodes. This exotic plant, the Gratola; folius lanceolatis, steriats, floribus pedunculatis, of Linneus, is a native of the south of Europe; but is raised in our cardens. The leaves have a nauscous bitter taste, but no remarkable smell; they purge and comit briskly in the dose of buff a drechm of the day hole, or of a daylin, infused in wine or water. dry heab, or of a drachm infused in wine or water

This plant, in small doses, has been commonly employed as a cathartic and diurctic in hydropical diseases; and instances of its good effects in asettes and anisarca are recorded by many respectable practitioners. Gesner and Bergius found a scruple of the powder a sufficient dose, as in this quantity it frequently excited nausea or vomiting; others have given it to half a drachm, two scruples, a drachm, and even

An extract of the root of this plant is said to be more efficacious than the plant itself, and exhibited in more electrons than the piant isen, and extended in the dose of haif a drachin, or drachin, in dysenteries, produces the best effect. We are also told by Kostr-zewski that in the hospitals at Vienna, three maniacal patients were perfectly recovered by its use; and in the most confirmed cases of lues venerea, it effected a

the most confirmed cases of luce venerea, it effected a complete cure; it usually acted by increasing the urinary, cutaneous, or salivary discharges.

GRAVEDO. (From gravis, heavy.) A catarth, or cold, with a sense of heaviness in the head.

GRAVEL. See Calculus.

[GRAVEL. See Calculus.

[GRAVITY. A term used by physical writers to denote the cause by which all bodies move toward each other, unless prevented by some other force or obstacle.

Gravity, specific. The density of the matter of which any body is composed, compared to the destiny of another body, assumed as the standard. This standard is pure distilled water, at the temperature of 60° F. To determine the specific gravity of a solid, we weigh it, first in air, and then in water. In the latter case, it loses of its weight a quantity precisely equal to the weight of its own bulk of water; and hence, by comparing this weight, with its total weight, we find its specific gravity. The rule, therefore, is, Divide the total weight by the loss of weight in water, the quotient is the specific gravity. If it be a liquid or a gas, we weigh it in a glass or other vessel of known capacity; and dividing that weight by the weight of the same bulk of water, the quotient is, as before, the spe-GRAVITY, SPECIFIC. The density of the matter of same bulk of water, the quotient is, as before, the spe-

clific gravity.

["GREEN, Tromas. The family of Green has made itself remarkable, in the medical profession, by its humble and singular origin. The subject of this notice, the medical ancestor of the family, was born in Malden, and was one of the first settlers of Leicester. ter, county of Worcester, Massachusetts. He received his first medical impressions, and impulse, from a book, given him by a surgeon of a Buitish ship, who resided a few months at his father's, and took an inresided a few months at his father's, and took an in-terest in his vigorous and opening intellect. His outfit, for the wilderness, consisted of his gun, his axe, his book, his sack, and his cow. His first habitation was built by nature, its roof composed of a shelving rock. Here he passed the night in sound repose, after the labour of the day, in felling and clearing the forest. Soon after he began his settlement, he was attacked by a fever. Foreseeing the difficulties which must by a lever. Foresceing the discenties which mass attend his situation, without a friendly hand to admi-nister even the scanty necessaries of life, he had the precaution to the a young call to his cabin, formed under the rock. By this stratagem he was enabled to obtain sustenance from the cow, as often as she returned to give nourishment to ber young. In this man-ner he derived his support for some weeks. By the aid of his book, and the knowledge of simples, a proficiency in which he early acquired by an intercourse with the Indians, he was soon enabled to prescribe successfully for the simple maladies of his fellow-set-By practice, from the necessity of the case, as well as from choice, he acquired theory and skill, and soon rose to great reputation. Thus, from fortuitous circumstances, and an humble beginning, the name of

Green has actained its present eminence in the medical profession "—Thach. Med. Biog. A.]

["GREEN, DR. John, (senior,) son of the above mentioned, was born at Leicester, in the year 1736, By the aid of his father, he early became a physician, and settled at Worcester. He married a daughter of Bigadier Ruggles, of Hardwick, and became the father of a large family. Not satisfied, as 100 many are, with the limited means of knowledge which necessahis profession, from his father. In his garden were to be found the useful plant, the healing herb, and the grateful fru which either his humanity bestowed on the sick, or his hospitality on his riends. He died, November 29th, 1799, aged 63 years.—Thach. Med. Ring. A.1.

November 29th, 1799, aged 69 years.—Thack. Mess. Biog. A.]
["GREEN, Dr. John, (junior,) son of the preceding, was born A. D. 1703. Descended from ancestors who made the art of healing their study, Dr. Green was easily initiated in the school of physic; and, from his childhood, the natural bias of his mind led him to that profession, which, through life, was the sole object of his ardent pursuit. To be distinguished as a physician, was not his chief incentive. To assuage the sufferings of humanity, by his skill, was a higher motive of his benevolent mind. Every duty was performed with delicacy and tenderness. With these propensities, aided by a strong, inquisitive, and these propensities, aided by a strong, inquisitive, and discriminating mind, he attained to a pre-eminent rank among the physicians and surgeons of our country. To this sentiment of his worth, correctly derived from witnessing his practice on others, a more feeling tribute is added by those who have experienced his skill; for so mild was his deportment, so soothing were his manners, and so indefatigable was his attention, that he gained the unbounded confidence of his patients, and the unconnect connected of its patients, and the cure was in a good measure performed before medicine was administered. To those who were acquainted with Dr. Green, the idea, that "some mem are born physicians," was not absurd; for he not only possessed an innate mental fitness for the profession, but was according to the profession, but was according to the profession. sion, but was constitutionally formed to bear its fatigues and privations. Few men, of his age, have had such extensive practice, or endured a greater va had such extensive practice, or endured a greater variety of fatigue, or have been so often deprived of stated rest and refreshment. It is worthy of remark, that in all the variety of duty, incident to his calling, he was never known to yield to the well-intended proffer of that kind of momentary refreshment, so ready at command, and so often successfully pressed upon the weary, exhausted, and incuntious physician. "The frammess and equanimity of his mind, which were conspicuous in all the exigencies of life, forsook him not in death. With Christian resignation, he "set his house in order," knowing he "must due and not true." In perfect possession of his intellectual faculties, with a mind calm and collected, he spent the last ties, with a mind calm and collected, he spent the last

tire." In perfect possession of his intellectual faculties, with a mind callected, he spent the last moments of life performing its last duties, with the sublime feelings of a philosopher and Christian. And when, by an examination of his pulse, he found the cold hand of death pressing hard upon him, he bade a calm adieu to his attending physicians, whom he wished should be the sole witnesses of nature's last conflict. Placing himself in the most favorable necessity. Placing himself in the most favourable posture for an easy exit, he expressed a hope that his for-titude would save his afflicted family and friends from thude wone save his anneted rammy and trients from the distress of hearing a dying groan. His hope was accomplished! He died, August 11th, 1808, aged 45 years. At his request, his body was examined. The cause of death was found in the enlargement, and consequent flaccidity, of the aorta."—Thacher's Med.

Biog. A.]
GREEN EARTH. Mountain green. A mineral of a celandine green colour, found in Saxony, Verona, and Hungary.

and Hungary.

GREEN SICKNESS. See Chlorosis.

Green vitrol. Sulphate of iron.

GREENSTONE. A rock of the trap formation, consisting of a hornblend, and felspar, both in the state of grains or small crystals. See Diabase.

GREGORY, John, was born in 1725, his father being professor of medicine at King's College, Aberdeen: after studying under whom, be went to Edinburgh, Leyden, and Paris. At the age of 20, he was elected professor of philosophy at Aberdeen, and was made doctor of medicine. In the year 1736 he was chosen professor of medicine on the death of his brother James, who kad succeeded his father in that chair. ther James, who had succeeded his father in that chair. But about hine years after he went to Edinburgh; and was appointed professor of the practice of medicine there, Dr. Rutherford having resigned in his favour. The year following, on the death of Dr. White, he was nominated first physician to the king for Scotland. He with the finited means of knowledge which necessa-rily fell to his lot, he afforded his children the best edu-cation in his power. He was extensively employed, and distinguished himself for his tenderness and fide-lity. He inherited a taste and skill in botany, with

nal remarks, and was very favourably received. nal remarks, and was very lavourably received. Five years after his "Observations on the Duties and Offices of a Physician, &c.," given in his introductory leatures, exceedably his interesting the interest of the print them in a more correct form. The work has been greatly admired. His last publication,
"Elements of the Practice of Physic" was intended
as a syllabus to his lectures; but he did not live to

GRENATITE. Prismatoidal garnet.

GRESS'RA. (From gradior, to proceed.) The perincum which goes from the pudendum to the anus. GREW, Nemenial, was born at Coventry; where, after graduating at some foreign university, he settled after graduating at some foreign university, he settled in practice. He there formed the idea of studying the anatomy of plants. His first essay on this subject was communicated to the Royal Socrety in 1670, and met with great approbation: whence he was induced to settle in London, and two years after became a fellow of that society; of which he was also at one period secretary. In 1680 he was made an honorary fellow of the College of Physicians. He is said to have attained considerable practice, and died in 1711. His "Anatomy of Vegetable Roots and Trunks," is a large collection of original and useful facts; though his theories have been invalidated by subsequent discoveries. He had no correct ideas of the propulsion or direction of the say; but he was one of the first veries. He had no correct ideas of the propusion of direction of the say; but he was one of the first who adopted the doctrine of the sexes of plants; nor did even the principles of methodical arrangement entirely escape his notice. In 1681, he published a descriptive catalogue of the Museum of the Royal Society; to which were added some lectures on the comcately to white were added some rectures of the comparative anatomy of the stomach and intestines. Another publication was entitled "Cosmographia Sacra, or a Discourse of the Universe; as it is the Creature and Kingdom of God." His works were soon translated into French and Latin; but the latter very

GREYWACKE. A mountain formation, consisting of two similar rocks, which alternate with, and pass into each other, called greywacke, and greywacke.

GRIAS. (A name mentioned by Apuleius.) The name of a genus of plants. Class, Polyandria; Order,

Monogynia.

GRIAS CAULIFLORA. The systematic name of the tree, the fruit of which is the anchovy pear. The inhabitants of Jamaica esteem it as a pleasant and cool-

GRIE'LUM. A name formerly applied to parsley and

GRIPHO'MENOS. (From γριφος, a net; because it surrounds the body as with a net.) Applied to pains which surround the body at the loins.

GROMWELL. See Lithospermum.
GROSSULARE. A mineral of an asparagus-green

GROSSULARE. A mineral of an asparagus-green colour, of the garnet genus.

GROSSULA'RIA. (Diminutive of grossus, an unripe fig., 3D ramed because its feuit resembles an unripe fig.) The gooseberry, or gooseberry-bush. See Ribes.

GROTTO DEL CANE. (The Italian for the dogs' grotto.) A grotto near Naples, in which dogs are sufficient.

The carbonic acid gas rises about eighteen inches. A man therefore is not affected, but a dog foreibly held in, or that cannot rise above it, is soon kilted, unless taken out. He is recovered by plunging limin in an adioming lake. him in an adjoining lake.

Ground wy. See Glecoma hederacea. Ground liverwort. See Lichen caninus.

Ground nut. See Bunium bulbocastanum. See Teucrium chamæpitys.

Ground-pine. See Teutrium chomepritys.
GROUNDSEL. See Senecio oulgaris.
GRUINALES. (From grus, a crane.) The name of an order of plants in Linnaus's Fragments of a Natural Method, consisting of geranium, or crane's

bill genus principally.
GRU TUM. A hard, white tubercle of the skin, re-

sembling in size and appearance a milet-seed.

GRYLLUS. The name of an extensive genus of insects, including the grasshoppers, and the locust of

GRYLLUS PERCUIVORUS. The wart-cating grass-hopper. It has green wings, spotted with brown, and is caught by the common people in Sweden to destroy warts, which they do, by bitting off the excrescence and discharging a corrosive liquor on the wound.

GRYPHO'SIS. (From γρυποω, to incurvate.) A disease of the nails, which turn inwards, and irritate

the soft parts below GUALACUM. GUALACUM. (From the Spanish Guayacan, which is formed from the Indian Hoavacam.) 1. The

which is formed from the Indian Horzacama. 1. The name of a genus of plants in the Linnman system. Class, Decandria; Order, Monogynia.

2. The pharmacoperial name of the officinal guaracum. See Guaiacum afficinale.

GUAIACUM OFFICINALE. This tree, Guaiacum-folias biguis; obtusis of Linnaus, is a native of the West Indian islands. The wood, gum, bark, fruit, and even the flowers, have been found to possess medicinal qualities. The wood, which is called Guaiacum and eventue. The wood, which is called Guaiacum Americanum; Lignum vita; Lignum sanctum, Lognum binedictum; Palus sanctus, is brought principally from Jamatica, in large pieces of four or five hundred weight each, and from its hardness and beauty is used weight each, and from its hardness and beauty is selfor various articles of turnery-ware. It searcely discovers any smell, unless heated, or while raspine, in which circumstances it yields a light aromatic one: chewed, it impresses a slight aerimony, bling the palate and fauces. The gum, or rather resin, is obviously by wounding the bark in different parts of the body of the tree, or by what has been called jagging. It exudes copiously from the wounds, though gradually; and when a quantity is found accumulated upon the several wounded trees, hardened by exposure to the sun, it is gathered and packed up in small kegs for exportation: it is of a friable texture, of a deep green. the sun, it is gathered and packed up in small kegs for exportation: it is of a friable texture, of a deep greensh colour, and sometimes of a reddish hue; it has a pungent acrid taste, but little or no smell, unless heated. The bark contains less resmous matter than the wood, and is consequently a less powerful medicine, though in a recent state it is strongly cathartic. "The fruit," says a late author, "is purgative, and, for medicinal use, far excels the bark. A decoction of it has been known to cure the venereal disease, and even the yaws in its advanced stage, without the use of mercury." The fluorers, or blossoms, are laxative, and in Jamaica are commonly given to the children in the form of syrup. It is only the wood and resin of guaiacum which are now in general medicinal use in Europe; and as the efficacy of the former is supposed to be derived merely from the quantity of resinous matter which it contains, they may be considered in matter which it contains, they may be considered in-discriminately as the same medicine. Guaiacum was first introduced into the materia medica soon after the discovery of America; and previous to the use of mercury in the lues venerea, it was the principal reme-dy employed in the cure of that disease: its great success brought it into such repute, that it is said to have been sold for seven gold crowns a pound: but notwithstanding the very numerous testimonies in its favour, it often failed in curing the patient, and was at length entirely superseded by mercury; and though it be still occasionally employed in syphilis, it is rather with a view to correct other diseases in the habit, than for its effects as an anti-venereal. It is now more generally employed for its virtues in curing gouty and rheumatic pains, and some cutaneous diseases. Dr. Woodville pains, and some cutaneous diseases. Dr. Woodville and others frequently conjoined it with mercury and soap, and in some cases with bark or steel, and found it eminently useful as an alterative. In the pharmacopæia it is directed in the form of mixture and tinction that the control of the co copeals it is circuted in the form of mixture and increase ture: the latter is ordered to be prepared in two ways, viz. with rectified spirit, and the aromatic spirit of animonia. Of these latter compounds, the dose may be from two scruples to two drachims; the gum is generally given from six grains to twenty, or even more, for a dose, either in pills or in a fluid form, by means of muchage or the welk of an egg. The decorring lignoa dose, either in pins of in a fulle total, by means of muchage or the yelk of an egg. The decoctum lignorum (Pharm. Edinb.) of which guaiacum is the chief ingredient, is commonly taken in the quantity of a

As many writers of the sixteenth century contended As many writers of the state and examply contention that guaine un was a true specific for the venereal discase, and the celebrated Boerhaave maintained the same opinion, the following observations are inserted:
Mr. Pearson mentions, that when he was first intrusted with the care of the Lock Hospital, 1781, Mr. Bromettick Mr. Wallingsman, in the label of the care of the care of the lock of the label of the care of the lock of the label of the care of the lock of the label of the la field and Mr. Williams were in the habit of reposing great confidence in the efficacy of a decoction of guaia-cum wood. This was administered to such patients as had aheady employed the usual quantity of mer-cuty; but who complained of nocturnal pains, or had gummata, nodes, ozama, and other effects of the venereal virus, connected with secondary symptoms, as did not yield to a course of mercurial frictions. The diet high in reputation abroad, against difficulties of making consisted of raisins, and hard biscuit; from two to four pints of the decoction were taken every day; the four parts of the decorion were taken every day; me-hot bath was used twice a week; and a dose of anti-momal wine and landamin, or lover's powder, was commonly taken every evening. Constant confine-ment to bed was not deemed necessary; neither was exposure to the vapour of burning spirit, with a view of exenting perspiration, often practised; as only a moist state of the skin was desired. This treatment was sometimes of sugular advantage to those whose health had suptained quinty from the disease, long conhealth had sustained mjury from the disease, long con-finement, and mercury. The strength increased; bad ulcers healed; exfoliations were completed; and these anomalous symptoms which would have been exasperated by mercury, soon yielded to guaiacum.

Besides such cases, in which the good effects of

guaiacum made it be erroneously regarded as a specific for the lues venerea, the medicine was also formerly given, by some, on the first attack of the venereal dis The disorder being thus benefited, a radical cure was considered to be accomplished; and though frequent relapses followed, yet, as these partly yielded to the same remedy, its reputation was still kept up Many diseases also, which got well, were probably not venereal cases. Pearson seems to allow, that in not venerate cases. Pearson seems to anow, that in explinitic affections, it may indeed operate like a true antidote, suspending, for a time, the progress of certain venereal symptoms, and removing other appearances altogether; but he observes that experience has evinced, the unsubdued virus yet remains active in the

constitution.

Pearson has found guaiacum of little use in pains Pearson has found gualacum of little use in pains of the bones, except when it proved sudoritic; but that it was then inferior to animony or volaule alkali. When the constitution has been impaired by mercury and long confinement, and there is a thickened state of the leannents, or periosteum, or foul ulcers still remaining, Pearson says, these effects will often subside during the exhibition of the decoction; and it will often suspend, for a short time, the progress of certain secondary symptoms of the luce venera; for instance, often suspend, for a short time, the progress of certain secondary symptoms of the lues venera; for instance, theers of the tonsits, veneral cruptions, and even nodes. Pearson, however, never knew one instance in which goaiacum eradicated the virus; and he contends, that its being conjoined with mercury neither increases the virtue of this mineral, lessens its bad effects, nor dimmislises the necessity of giving a certain quantity of it. Pearson remarks that he has seen guanacum produce good effects in many patients, laiving cutaneous diseases, the ozena, and scrotulous affections of the membranes and ligaments.

GUILA'NDINA. (Named after Guilandus, a Prussian, who travelled in Palestine, Egypt, Africa, and Greece, and succeeded Faliopus in the botaincat chair at Padua. He died in 1589.) The name of a genus of plants. Class, Diceasieria, Proter, Hongygna.

GUILANDINA DONDUC. The systematic mane of the plant, the fruit of which is called Bondach indorum. Molucca or bezoar nut. It possesses warm, bitter, and

Molucca or bezoar nut. It possesses warm, bitter, and carminative virtues.

GUILANDINA MORINGA. This plant, Guilandina— inermis, foliis subpinnatis, foliolis inferioribus terna-tis of Linnæus, affords the ben-nut and the lignum

nephriticum.

nephriticum.

1. Ben nax; Glans unguentaria; Balanus nepresica; Coatis. The oily acorn, or ben-nut. A whitish nut, about the size of a small filberd, of a roundish triangular snape, including a kernel of the same figure, covered with a white skin. They were formerly employed to remove obstructions of the prima via. The oil afforded by simple pressure, is remarkable for its not growing rancid in keeping, or, at least, not until it has stood for a number of years; and on this account, it is used in extricating the aromatic principles of such oldriticious flowers as yield little or no essenof such adorticrous flowers as yield little or no essen-tial oil in distillation. The unatterability of this oil would render it the most valuable substance for ce-rates, or liminents, were it sufficiently common. It is actually employed for this purpose in many parts of

Nephritic wood. 2. Lignum nephriticum. 2. In gruin repartition. Repairing Wood. It is brought from America in large, compact, ponderous pieces, without knots, the outer part of a whitish, or pale yellowish colour, the inner of a dark brown or When rasped, it gives out a faint aromatic smell.

high in reputation abroad, against difficulties of making urine, nephritic complaints, and most disorders of the kidnevs and urinary passages. GUINEA PEPPER. See C

See Cansicum annuum.

Guinea worm. See Medinensis veno. GUINTERIUS, John, was born in 1487, at Ander-GUNTHATES, John, was both in 1927, at Americanach, in Germany. He was of obscure birth, and his real name was said to have been Winther. He showed very early a givent zeal for knowledge, and at the age of 12 went to Utrecht to study; but he had to struggle with great hardships, supported partly by his own inwith great hardships, supported partly by this own Industry, partly by the bounty of those who commiserated his situation. At length, having given striking proofs of his talents, he was appointed professor of Greek at Lesain. But his inclusion being to medicine, he went to Panis in 1525; where he was made doctor five years after. He was appointed physician to the king, and practised there during several years; giving also lectures on anatomy. His reputation had reached the north of Europe; and he received the most advantageous offers to repair to the court of Denmark. But in 1537 he was connelled by the religious disturbances. in 1537 he was compelled by the religious disturbances to retire into Germany. At Strasburgh he was received to retire into Germany. At Strasburgh he was received with honour by the magistrates, and had a chair assigned him by the faculty; he also practised very extensively and successfully; and at length letters of nobility were conferred upon him by the emperor. He lived, however, only twelve years to enjoy these honours, having dued in 1574. His works are numerous, consisting partly of translations of the best ancient physicians, but principally of commentaries and illustrations of them.

and illustrations of them.

GUM. I. Gummi. The mucilage of vegetables. It is usually transparent, more or less brittle when dry, though difficulty pulverable; of an insupal, or slightly saccharine taste; soluble in, or capable of combining with, water in all proportions, to which it gives a gluey adhesive consistence, in proportion as its quantity is greater. It is separable, or congulates by the action of weak acids; it is insoluble in alkohol, and in oil; and capable of the acid fermentation, when diluted with water. The destructive action of fire causes it to emit nuch carbonic acid, and converts it into coal without exhibiting any flame. Distulation affords water, acid, a small quantity of oil, a small quantity of ammonia, and much coal.

of ammonia, and much coal.

These are the leading properties of gums, rightly so called; but the inaccurate custom of former times applied the term gum to all concrete vegetable juices, so that in common we hear of gum copal, gum sandarach, and other gums, which are either pure resms, or mixtures of resins with the vegetable mucilage

The principal gams are, I. The common gums, obtained from the plum, the peach, the cherry-tree, &c. 2. Gum Arabic, which flows naturally from the acacia in Egypt, Arabia, and elsewhere. This forms a clear transparent muclage with water. 3. Gum Seneca, or Sunegal. It does not greatly differ from an Arabic. Senegal. It does not greatly differ from gum Arabic: the pieces are larger and clearer; and it seems to com-municate a higher degree of the adhesive quality to water. It is much used by calico-printers and others. The first sort of gums are frequently sold by this name, but may be known by their darker colour. 4. Gum adragant, or tragacanth. It is obtained from a small plant, a species of astragalus, growing in Syria, and

plant, a species of astragalus, growing in Syria, and other castern parts. It comes to us in small white contorted pieces, resembling worms. It is usually dearer than other gunns, and forms a thicker jelly with water. Willis has found, that the root of the common bluebell, Hyacinthus non scriptus, dried and powdered, affords a mucilage possessing all the qualities of that from gun Arabic. The roots of the vernal squill, white lily, and orchis, equally yield mucilage. Lord Durdonald has extracted a mucilage also from lichens.

Guns texted with nitric acid afford the sachetic.

Gums treated with nitric acid afford the saclactic,

malic, and oxalic acids.

II. Gingiva. The very vascular and elastic sub-stance that covers the alveolar arches of the upper and under jaws, and embraces the necks of the teeth.

Ser . Toai vera.

Gram arane. See Relicia vera.
Gram, clastic. See Caoatehouc.
GUM-BILE. See Paralis.
GU MMA. A strumous tumour on the periosteum
of a bone.

GUMMI. (Gummi, n. indeclin.) See Gum

GUMMI ACACIE. See Acacia vera

COMMI ACANTHINUM. See Acaera vera. GUMMI ARABICUM. See Acacia vera. GUMMI CARANNE. See Caronna.

Grant crasses. See Caronna.

Grant crasses, See Caronna.

Grant crasses, See Caronna.

the bark of cherry-trees. It is very similar to gum Arabic, for which it may be substituted.

GUMMI CHIBOU. A spurious kind of gum elemi, but

GUMMI COURBARIL. An epithet sometimes applied to the juice of the Hymenwa courbaril. See Anime. Gummi Euphorbis. See Euphorbis.

GUMMI GALDA. See Galda.

Gummi Garbas. See Vindi. Gummi Garbas. See Sialagmitis. Gummi Hedrræ. See Hadra heliz. Gummi Juniperinum. See Juniperus communis.

GUMMI KIKERUNEMALO. See Kikekunemalo.

GUMMI KIRERUNEMALO. SOE AM GUMMI KINO. See Kino. GUMMI LAGCA. See Lacca. GUMMI LAUCA. See Acacia vera. GUMMI LUTEA. See Botuny Bay. GUMMI MYRHA. See Myrtha.

GUMMI RUBRUM ASTRINGENS GAMBIENSE. See Kino. GUMMI SAGAPENUM. See Sagapenum. GUMMI SCORPIONIS. See Acadra vera.

GUMMI SCORPIONIS. See Acacia vera.
GUMMI SENEGA. See Acacia vera.
GUMMI SENEGALENER. See Mimosa Senegal.
GUMMI SENICA. See Acacia vera.
GUMMI THEBAICUM. See Acacia vera.
GUMMI THAGACANTHE. See Astragalus.
GUMMESIN. Gummi resina. Gum-resins are
the juices of plants that are mixed with resin, and an the juices of pinats that are mixed with resul, and an extractive matter, which has been taken for a gunny substance. They seldom flow naturally from plants, but are mostly extracted by incision in the form of white, yellow, or red fluids, which dry more or less quickly. Water, spirit of wine, wine, or vinegar, dissolve them only in part according to the proportion they contain of resin or extract. Gum-resins may also they contain of resin or extract. Gum-resins may also be formed by art, by digesting the parts of vegetables containing the gum-resin in diluted alkohol, and then evaporating the solution. For this reason most tinctures contain gum-resin. The principal gum-resins employed medicinally are aloes, ammonfacum, assafœtida, galbanum, cambogia, guaiacum, myrrha, olibanum, opoponax, sagapenum, sarcocolla, scammonium, and

GUNDELIA. (The name given by Tournefort in honour of his companion and friend, Andrew Gundelscheimer, its discoverer, in the mountains of Armenia.)

A genus of plants. Class, Syngenesia; Order, Polygamia segregata.

GUNDELIA TOURNIFORTH. The young shoots of this plant are eaten by the Indians but the roots are

GU'TTA. (Gutta, c. f.) 1. A drop. Drops are uncertain forms of administering medicines, and should never be trusted to. The shape of the bottle or of its mouth, from whence the drops fall, as well as or of its mouth, non-whence the trops and, as wen state to the consistence of the fluid, occasion a considerable difference in the quantity administered. See Minimum.

2. A name of apoplexy, from a supposition that its cause was a drop of blood falling from the brain upon

the heart.

the heart.

GUTTA GAMBA. See Stalagmitis.

GUTTA NIGRA. The black drop, occasionally called
the Lancashire, or the Cheshire drop. A secret prepreparation of opium said to be more active than the
common tincture, and supposed to be less injurious, as seldom followed by headache.

GUTTA OPACA. A name for the cataract.

GUTTA SERENA. (So called by the Arabians.) See Amaurosis.

GUTTE ROSACEE. Red spots upon the face and

GUTTURAL. Belonging to the throat.

GUTTURAL ARTERY. The superior thyroideal artery. The first branch of the external carotid.

GYMNA'STIC. (Gymnasticus; from yuquog, naked, performed by naked men in the public games.) This term is applied to a method of curing diseases by exercise, or that part of physic which treats of the rules that are to be observed in all sorts of exercises, for the preservation of health. This is said to have been invented by one Herodicus, born at Salymbra, a city of Thrace; or, as some say, at Leutini, in Sicily. He was first master of an academy where young gentlemen came to learn warlike and manly exercises; and observing them to be very healthful on that account, he made exercise become an art in reference to the recovering of men out of diseases, as well as precount, he made exercise become an art in reference to the recovering of men out of diseases, as well as preserving them from them, and called it Gymnastic, which he made a great part of his practice. But Hippocrattes, who was his scholar, blannes him sometimes for his excesses with this view. And Plato exclaims against him with some warmth, for enjoining his patients to walk from Athens to Megara, which is about 25 miles, and to come home on foot as they went, as soon, as ever they had but touched the walks of the as soon as ever they had but touched the walls of the

city.

GYMNOCARPI. The second division in Persoon's GYMNOCARE. The second avvision in Tribonal arrangement of mushrooms, such as bear seeds embedded in an appropriate, dilated, exposed membrane, denominated hymenium, like hebella, in which that part is smooth and even; boletus, in which it is porous; and the vast genus agaricus, in which it consists of

GYMNOSPEBMIA. (From γυμνος, naked, and σπερμα, a seed.) The name of an order of the class Didynamia, of the sexual system of plants, embracing such as have added to the didynamial character, four naked seeds.

Gynæ'cia. (From γυνη, a woman.) Th and also the lochia. GYNÆ'CIUM. (From γυνη, a woman.) (From youn, a woman.) The menses,

1. A seragio.
2. The pudendum muliebre.
3. A name for antimony.
GYNÆCOMANIA. (From yuvy, a woman, and yavia, madness.) That species of insanity that arises from love.

GYNECOMY'STAX. (From γυνη, a woman, and μυςταζ, a beard.) The hairs on the female pudendum. GYNECOMA'STON. (From γυνη, a woman, and μαζος, a breast.) An enormous increase of the breasts

GYNANDRIA. (From γυνη, a woman, and ανηρ, a man, or husband.) The name of a class in the sexual system of plants. It contains those hermaphrodite flowers, the stamina of which grow upon the pistil,

dite flowers, the stamma of which grow upon the pistil, so that the male and female organs are united, and do not stand separate as in other hermaphrodite flowers. GYPSATA. (From gypsum, a saline body consistingof sulphuric acid and lime.) Dr. Good denominates a species of purging diarrhea gypsata, in which the digestions are liquid, serous, and compounded of earth

of lime.

GYPSUM. A genus of minerals, composed of lime and sulphuric acid, containing, according to Jameson, two species: the prismatic and the axifrangible.

1. Prismatic gypsum, or anhydrite, has five sub-species: sparry anhydrite, scaly anhydrite, fibrous anhydrites sparry anhydrite.

drite, convoluted anhydrite, compact anhydrite. Anhydrite.

2. Axifrangible gypsum contains six sub-species: sparry gypsum, foliated, compact, fibrous, scaly foliated, and earthy gypsum.

See Gundelia tournefortii.

HÆMAGO'GA. (From ατμα, blood, and αγω, to bring off.) Medicines which promote the menstrual hæmorrhoidal discharges.

HÆMALOPIA. (From αιμα, blood, and σπ7ομαι, to see.) A disease of the eyes, in which all things appear of a red colour. A variety of the Pseudoblepsis

imaginaria.

IAE MALOPS. (From αμμα, blood, and ωψ, the face.) 1. A red or livid mark in the face or eye.

2. A blood-shot eye.

HÆMANTHUS. (From αμμα, blood, and ανθος, a flower, so called from its colour.) The blood-flower.

HÆMATE MESIS. (From αμμα, blood, and μετο, to vounit.) Vomitus cruentus. A vonniting of blood is readily in the distinguished from a discharge from the to vomit.) Vomitus cruentus. A vomiting of blood is readily to be distinguished from a discharge from the lungs, by its being usually preceded by sense of weight, pain, or anxiety in the region of the stomach; by its being unaccompanied by any cough; by the blood being discharged in a very considerable quantity; by its being of a dark colour, and somewhat grumous; and by its being mixed with the other contents of the

The disease may be occasioned by any thing re-ceived into the stomach, which stimulates it violently ceived into the stomach, which stimulates it violently or wounds it; or may proceed from blows, bruises, or any other cause capable of exciting inflammation in this organ, or of determining too great a flow of blood to it; but it arises more usually as a symptom of some other disease (such as a suppression of the menstrual, or hemorrhoidal flux, or obstructions in the liver, spleen, and other viscera) than as a primary affection. It is seldom so profuse as to destroy the patient suddenly, and the principal danger seems to arise, either from the great debility which repeated attacks of the complaint induce, or from the lodgment of blood in the intestines, which by becoming putrid might occasion some other

disagreeable disorder.

This bæmorrhage, heing usually rather of a passive character, does not admit of large evacuations. Where it arises, on the suppression of the menses, in young persons, and returns periodically, it may be useful to anticipate this by taking away a few ounces of blood; not neglecting proper means to help the function of the uterus. In moderate attacks, particularly where the bowels have been confined, the infusion of roses and sulphate of maguesia may be employed: if this should not check the bleeding, the sulphuric acid may be exnote the obscuring the supporte acid may be exhibited more largely, or some of the more powerful astringents and tonics, as alum, tincture of muriate of iron, decoction of bark, or superacetate of lead. Where pain attends, opium should be given freely, taking care that the bowels be not constipated; and a blister to the engastrium may be useful. Education assets. epigastrium may be useful. If depending on scirrhous tumours, these must be attacked by mercury, hemick, ec. In all cases the food should be light, and easy of digestion; but more nourishing as the patient is more

HÆMATICA. The name of a class of diseases in H.E.MATICA. The name of a class of diseases in Good's Rosology, of the sanguineous system. Its orders are, Pyretica, Phieretica, Exanthematica, Dysthetica. HEMATIN. The colouring matter of logwood, and according to Chevreuil, a distinct vegetable substance. See Hamatexylon. H.EMATITES. (From αιμα, blood: so named from its property of stopping blood, or from its colour.)

Lapis hamatites. An elegant iron ore called blood stone. Finely levigated, and freed from the grosser parts by frequent washings with water, it has been long recommended in hæmorrhages, fluxes, uterine obstructions, &c. in doses of from one scruple to three

HÆMATI'TINUS. (From αιμαζιζης, the bloodstone.) n epithet of a collyrium, in which was the bloodstone. HÆMATOCE'LE. (From αιμα, blood, and κηλη,

HABE'NA. A bridle. A bandage for keeping the lips of wounds together, made in the form of a bridle. which, appears to Pott to be semewhat erroneous, and to have produced a prognostic which is ill founded and h. According to the cannot surgeon, the disease, properly called hæmatoceic, is of four kinds; two of which have their seat within the tunica vaginais testis; one within the albuginea; and the fourth in the tunica communis or common cellular membrane, investing the spermatic vessels.

In the passing an instrument, in order to let out the water from a hydrocele of the vaginal coat, a vessel is sometimes wounded, which is of such size, as to tinge the fluid pretty deeply at the time of its running out: the orifice becoming close, when the water is all discharged, and a plaster being applied, the blood ceases to flow from thence, but insinuates itself partly into the cavity of the vaginal coat, and partly into the cells of the scrotum; making in the space of a few hours, a tumour nearly equal in size to the original hydrocele. This is one species.

It sometimes happens in tapping a hydrocele, that although the fluid discharged by that operation be perfectly clear and limpid, yet in a very short space of time (sometimes in a lew hours,) the scrotum becomes as large as it was before, and palpably as full of a fluid. If

a new puncture be now made, the discharge, instead of being limpid (as before,) is either pure blood or very bloody. This is another species; and, like the

preceding, confined to the tunica vaginalis. The whole vascular compages of the testicle is sometimes very much enlarged, and at the same time rendered so lax and loose, that the tumour produced thereby has, to the fingers of an examiner, very much the appearance of a swelling composed of a mere fluid. supposed to be somewhat thick, or viscid. some measure a deception; but not totally so: the greater part of the tumefaction is caused by the loosened texture of the testes; but there is very frequently a quantity of extravasated blood also. If this be supposed to be a hydrocele, and pierced, the discharge will be mere blood. This is a third kind of hæmatocele; and very different, in all its circumstances, from the two preceding: the fluid is shed from the vessels of the glandular part of the testicle, and contained within the tunica albuginea.

The fourth consists in a rupture of, and an effusion of blood, from a branch of the spermatic vein, in its passage from the groin to the testicles. In which case, the extravasation is made into the tunica communis, or

extravasation is made into the temporal collidar membrane, investing the spermatic vessels.

Each of these species, Pott says, he has seen so distinctly, and periority, that he has not the smallest doubt concerning their existence, and of their difference from each other.

HÆMATO CHYSIS. (From aima, blood, and xew,

to pour out.) A hemorrhage or flux of blood.

HÆMATO'DES. (From aμα, blood, and ατδος, appearance: so called from the red colour.) 1. An old name for the bloody, crane's-bill. See Geranium can-

2. A fungus, which has somewhat the appearance of blood. See Hamatama.

blood. See Hamatoma. HÆMATO'LOGY. (Hamatologia; from asua, blood, and hovos, a discourse.) The doctrine of the

HEMATOMA. (From αιμα, blood.) Fungus hamatodes. The bleeding fungus. Spongoid inflammation of Burns. This disease has been described also unset the names of soft wancer and modullary sarcoma. It assumes a variety of forms, and attacks most comm. It assumes a variety of forms, and attacks most parts of the body, but particularly the testicle, eye, hreast, and the extremities. It begins with a soft enlargement or tumour of the part, which is extremely elastic, and in some cases very painful; as it increases, itouen has the feel of an encysted tumour, and at length becomes irregular, bulging out here and there, and insinuates itself between the neighbouring parts, and forms a large mass. If under an aponeurotic expansion.

When it ulcerates it bleeds, shoots up a mass of a bloody
fungus, and then shows its decided character if unknown Most of the medicines which have been employed against cancerous diseases have been unprofitably exhibited against hamatoma; as alteratives, both

vegetable and mineral; tonies and narcotics. Extirpa-tion, when practicable, is the only cure.

Hæmatomphaloce le. (From appa, blood, ομφαλος, the navel, and κηλη, a tumour.) A tumour about the navel, from an extravasation of blood. A species of

Hεματορεde'sis. (From αιμα, blood, and ωεδαω, a ap.) The leaping of the blood from a wounded

HÆMATO'SIS. (From αιμα, blood.) A hæmor-rhage or flux of blood. HÆMATO XYLON. (From αιμα, blood, and ξυλου, wood: so called from the red colour of its wood.)

wood, so cale their the reaccious of us wood, a rice mane of agenus of plants in the Linnman system. Class, Decandria; Order, Monogynia.

HEMATOXYLON CAMPELHIANUM. The systematic name of the logwood tree. Acacia Zeylonica. The part ordered in the Pharmacopeia, is the wood, called the material linnman. Linnman commellance, Linnman and the pharmacopeia. Hamatoryli lignum; Lignum campechense; Lignum The material tegenum; Legaum campechense; Legaum campechanam; Ligaum campescanum; Ligaum campechanam; Ligaum campescanum; Ligaum campechense; Ligaum campechense; Ligaum campechense; Ligaum suppan. Logwood. It is of a solid texture and of a dark red colour. It is imported principally as a substance for dying, cut into junks and logs of about three feet in length; of these pieces the largest and thickest are preserved, as being of the deepest colour. Logwood has a sweetish sub-adstringent taste, colon. Logwood has a sweets in substringent taste, and no remarkable small; it gives a purplish red fine-ture both to watery and spiritnous infusions, and tinges the stools, and sometimes the urine, of the same colour. It is employed medicinally as an adstringent and corroborant. In diarrheast thas been found peculiarly efficacious, and has the recommendation of some of the first medical authorities; also in the latter stages of dysentery, when the obstructing causes are removed to obviate the extreme laxity of the intestines usually superinduced by the repeated dejections. In the form superinduced by the repeated dejections. In the form of a decoction the proportion is two ounces to 2th. of fluid, reduced by boiling to one. An extract is ordered in the phanuacoperias. The dose from ten to forty grains. The colouring principle of this root is called hemetin. On the watery extract of logwood, digest alkohol for a day, filter the solution, evaporate, add a little water, evaporate gently again, and then leave the liquid at rest. Hematin is deposited in small crystals, which, after washing with alkohol, are brilliant, and of a reddish-white colour. Their taste is bitter, acrid, and slightly astringent.

Hematin forms an orange-red solution with boiling Hematin forms an orange-red solution with boiling water, becoming yellow as it cools, but recovering, with increase of heat, its former hue. Excess of alkali converts it first to purple, then to violet, and, lastly, to brown: in which state the hematin seems to be decomposed. Metallic oxides untile with hematin, forming a blue-colou and compound. Getatin throws down reddish flocculi. Peroxide of tin, and acid, merely redden it.

HÆMATO XYLUM. See Hæmatoxylon.

HÆMATO THA. (From appa. blood, and oppor, prine.) The voiding of blood with urine. This disease is sometimes occasioned by falls blows hurises.

urine.) The voiding of blood with urine. This dis-case is sometimes occasional by fails, blows, bruises, or some violent exertion, such as hard riding and jumping; but it more usually arises, from a small stone lodged either in the kidney or ureter, which by its size or irregularity wounds the inner surface of the part it comes in contact with; in which case the blood discharged is most usually somewhat coagu-lated, and the urine deposites a sedment of a dark better additional recombiling the grounds of colling. brown colour, resembling the grounds of coffee.

A discharge of blood by urine, when proceeding

A discharge of thood by uring, when proceeding from the kidney or treter, is commonly attended with an acute pain in the back, and some difficulty of making water, the urine which comes away first, being muddy and high coloured, but towards the close of its flowing, becoming transparent and of a natural appearance. When the blood comes immediately from the blood comes immediately from

perfance. When the blood companied with a sense of heat and pain at the bottom of the belly.

The voiding of bloody urine is always attended with matter 408 some danger, particularly when mixed with parallel lungs; nor is it dangerous in a strong healthy person, thatter When it arises in the course of any malig-

nant disease, it shows a highly putrid state of the blood, and always indicates a tatal termination.

The appearances to be observed on dissection will accord with those usually met with in the disease which

has given rise to the complaint

When the disease has resulted from a mechanical injury in a plethoric habit, it may be proper to take blood, and pursue the general antiphlogistic plan, opening the bowels occasionally with castor oil, &c. When owing to calculi, which cannot be removed, we must be chiefly content with palliative measures, giving al-kales or acids according to the quality of the urine; likewise mucilaginous drinks and clysters; and opium, formentations, &c. to relieve pain; uva ursi also has been found useful under these circumstances; but more decidedly where the hamorrhage is purely passive; in which case also some of the terebinthate remedies may be cautiously tried; and means of strengthening the constitution must not be neglected.

Πεμο' DIA. (From αιμωδεω, to stupefy.) A painful stupor of the teeth, caused by acrid substances touch-

ing them.

HÆMOPTOE. (From aιμα, blood, and π̄̄̄̄νω, to spit μρ.) The spitting of blood. See Hæmoptysis.

HÆMOPTYSIS. (From aιμα, blood, and π̄̄̄̄νω, to spit.) Hæmoptoe. A spitting of blood. A genus of disease arranged by Cullen in the class Pyrezia, and order Hæmoprhagie. It is characterized by coughing up florid or frothy blood, preceded usually by heat or pain in the chest, imitation in the larynx, and a saltish taste in the mouth. There are five species of this dis-

1. Hamoptusis plethorica, from fulness of the vessels. 2. Hamoptysis violenta, from some external violence

3. Hamoptysis phthisica, from ulcers corroding the small vessels

4. Hamoptysis calculosa, from calculous matter in the lungs.

5. Hamoptysis vicaria, from the suppression of

some customary evacuation. It is readily to be distinguished from hæmatemesis, as in this last, the blood is usually thrown out in consi-

as in this issi, the mood is usually thrown out in considerable quantities; and is, moreover, of a darker colour, more grumous, and mixed with the other contents of the stomach; whereas blood proceeding from the lungs is usually in small quantity, of a florid colour, and mixed with a title frohy mucus only.

A spitting of blood arises most usually between the

ages of sixteen and twenty-five, and may be occasioned by any violent exertion either in running, jumping, wrestling, singing loud, or blowing wind-instruments; as likewise by wounds, plethora, weak vessels, hectic fever, coughs, irregular living, excessive drinking, or a suppression of some accustomed discharge, such as the menstrual or hemorrhoidal. It may likewise be occa-sioned by breathing air which is too much rarefied to be able properly to expand the lungs.

Persons in whom there is a faulty proportion, either in the vessels of the lungs, or in the capacity of the chest, being distinguished by a narrow thorax and prominent shoulders, or who are of a delicate make and sanguine temperament, seem much predisposed to this namourhage; but in these, the complaint is often brought on by the concurrence of the various occa-

brought on by the concurrence of the various occu-sional and exciting causes before mentioned. A spitting of blood is not, however, always to be considered as a primary disease. It is often only a symptom, and in some disorders, such as pleurisies, peripneumonies, and many fevers, often arises, and is the presage of a favourable termination.

Sometimes it is preceded, as has already been ob-served, by a sense of weight and oppression at the clast, a dry tickling count, and some slight difficulty of breathing. Sometimes it is asserted in with shiverings, coldness at the extremities, pains in the back and loins, flatulency, costiveness, and lassitude. The blood which is spit up is generally thin, and of a florid red colour; but sometimes it is thick, and of a florid red colour; but sometimes it is thick, and of a dark or blackish cast; nothing, however, can be inferred from this circumstance, but that the blood has lain a longer or shorter time in the breast, before it was discharged. An hamoptoe is not attended with danger, where no

An nanopole is includence with angles, where no symptoms of phthiss pulmonalis have preceded or accompanied the heurorrhage, or where it leaves behind no cough, dyspieze, or other affection of the lumps; nor is it dangerous in a strong healthy person,

of a weak lax fibre, and delicate habit, it may be diffi- | always a branch of the pudical artery, or that artery cult to remove it.

It seldom takes place to such a degree as to prove fatal at once; but when it does, the cflusion is from some large vessel. The danger, therefore, will be in proportion as the discharge of blood comes from a

e vessel, or a small one

When the disease proves fatal, in consequence of the rupture of some large vessels, there is found, on dissection, a considerable quantity of clotted blood in the lungs, and there is usually more or less of an in-flammatory appearance at the ruptured part. Where

Hammatory appearance at the rubutera part. Where the disease terminates in pulmonary consumption, the same morbid appearances are to be met with as described under that particular head.

In this hæmorrhage, which is mostly of the active kind, the antiphologistic regimen must be strictly obkind, the antiphlogistic regimen must be strictly observed; particularly avoiding heat, muscular exertion, and agitation of the mind; and restricting the patient to a light, cooling, vegetable diet. Acidulated drink will be useful to quench the thirst, without so much liquid being taken. Where the blood is discharged copiously, but no great quantity has been lost already, it will be proper to attempt to check it by bleeding freely, if the habit will allow: and sometimes, where there is pain in the chest, local evacuations and blisters may be useful. The bowels should be well cleared with some coolingsaine cathartic, which may be given in the infusion of roses. Digitalis is also a proper remedy, particularly where the pulse is very quick, from its sedative influence on the heart and arteries. Antimomats in nauscating doses have some quick, from its sedative influence on the heart and arteries. Antimomals in nauseating doses have sometimes an excellent effect, as well by checking the force of the circulation, as by promoting diaphoresis; calomel also might be added with advantage; and opium, or other narcotic, to relieve pain and quiet cough, which may perhaps keep up the bleeding. Emetics have, on some occasions, been successful; but they are not altogether free from danger. In protracted are not altogether free from danger. In protracted cases, internal astringents are given, as alum, kino, &c. but their effects are very precarious: the superacetate of lead, however, is perhaps the most powerful medicine, especially combined with opium, and should always be resorted to in alarming or obstinate cases, though as it is liable to occasion coile and paralysis, though as it is liable to occasion colic and paralysis, its use should not be indiscriminate; but it acts probably rather as a sedative than astringent. Sometimes the application of cold water to some sensible part of the body, producing a general refrigeration, will check the bleeding. When the discharge is stopped, great attention to regimen Is still required, to obviate its return, with occasional evacuations: the exercise of swinging, riding in an easy carriage, or on a gentle horse, or especially sailing, may keep up a salutary determination of the blood to other parts: an occasional blister may be applied, where there are marks of local disease, or an issue or seton perhaps answer better. Should hæmoptysis occasionally exhibit rather the passive character, evacuations must be sparingly the passive character, evacuations must be sparingly used, and tonic medicines will be proper, with a more nutritious diet.

H.EMORRHAGIA. (From aima, blood, and bny-vom, to break out.) A hæmorrhage, or flow of blood. H.EMORRHA'GLÆ. Hæmorrhages, or fluxes of HEMORICHA GLP. Hamorrhages, or fluxes of blood. The name of an order in the class Pyrexiæ of Cullen's Nosology is so called. It is characterized by pyrexia with a discharge of blood, without any external nijury; the blood on venæsection exhibiting the buffy coat. The order Hamorrhagiæ contains the following genera of diseases, viz. epistaxis, hamoptysis, (of which phtitisis is represented as a sequel,) hamorrhois and menorrhagia.

H.EMORRHOI DAL. (Hamorrhoidalis; the name of the vessels which are the seat of the hemorrhoids or piles.)

1. Of or belonging to the hamorrhoidal vessels.

2. The trivial name of some plants which were supposed to be efficacious against piles; as Carduus ha-

morrhoidales, &c.

Marnhoidales, &c.

Hemographoldale Arteries. Arteriæ hæmorrhoidales. The arteries of the rectum are so called: they are sometimes two, and at other times three in number.

1. The upper hæmorrhoidal artery, which is the great branch of the lower mesenteric continued into the pelvis 2. The middle hæmorrhoidal, which sometimes comes off from the hypogastric artery, and very othen from the pulcal artery. It is sometimes wanting.

3. The lower or external hæmorrhoidal is almost

which goes to the penis

HAMORRHOIDAL VEINS. Venæ Hæmorrhoidales. These are two. 1. The external, which evacuates it self into the vena iliaca interna.

2. The internal, which conveys its blood into the

HÆMO RRHOIS. (From aµa, blood, and peo, to flow.) Aimorrhais. The piles. A genus of disease in the class pyrezia, and order Hæmorrhagia of Cullen. They are certain excrescences or tumours arising about the verge of the anus, or the inferior part of the about the verge of the anus, or the interior part of the intestinain rectum; when they dis-sharge blood, particularly upon the patient's going to stool, the disease is known by the name of bleeding piles; but when there is no discharge, it is called blind piles. The rectum as well as the colon, is composed of several membranes connected to each other by an intervening cellular substance; and as the muscular fibres of this intestine stance; and as the muscular fibres of this intestine always tend, by their contraction, to lessen its cavity; the internal membrane, which is very lax, forms itself into several ruge, or folds. In this construction nature respects the use of the part, which occasionally gives passage to, or allows the retention of, the excrements, the hardness and bulk of which might produce considerable lacerations, if this intestine were not capable of dilatation. The arteries and veins subservient to this part are called hemorrhoidal, and the blood that returns from hence is carried to the meseraic veins. The intestinum rectum is particularly subject to the The intestinum rectum is particularly subject to the hemorrhoids, from its situation, structure, and use; for while the course of the blood is assisted in almost all the other veins of the body, by the distention of the adjacent muscles, and the pressure of the neigh-bouring parts, the blood in the hæmorrhoidal veins, which is to ascend against the natural tendency of its own weight, is not only destitute of these assistances, but is impeded in its passage: for, first, the large excrements which lodge in this Intestine dilate its sides, and the different resistances which they form there are so many impediments obstructing the return of the blood; not in the large veins, for they are placed along the external surface of the intestine, but in all the castillaries retained to the surface of the intestine, but in all the castillaries retained to the surface of the intestine, but in all the castillaries retained to the surface of the intestine, but in all the castillaries retained to the surface of the intestine, but in all the castillaries retained to the surface of the intestine, but in all the castillaries retained to the surface of the intestine, surface of the surface of pillaries which enter into its composition. Secondly, as often as these large excrements, protruded by others, approached near the anus, their successive pressure upon the internal coats of the intestine, which they dilate, drives back the blood into the veins, and for so dilate, drives back the blood into the veins, and for so long suspends its course; the necessary consequence of which is, a distention of the veins in proportion to the quantity of blood that fills them. Thirdly, in every effort we make, either in going to stool, or upon any other occasion, the contraction of the abdominal muscles, and the diaphragm pressing the contents of the abdomen downwards, and these pressing upon the parts contained in the pelvis, another obstruction is thereby opposed, to the return of the blood, not only in the large veins, but also in the capillaries, which, being of too weak a texture to resist the impulse of the blood that always tends to dilate them, may be reby the blood that always tends to dilate them, may hereby become varicose.

The ditatation of all these vessels is the primary cause of the hæmorrhoids; for the internal coat of the intestine, and the cellular membrane which connects that to the muscular coat, are enlarged in proportion to the distention of the vessels of which they are composed. This distention, not being equal in every part, produces separate tumours in the gut, or at the verge of the anus, which increases according as the venal blood is obstructed in them, or circulates there more slowly.

who a stock the term of the blood in the hemorrhoidal veins, may occasion this disease. Thus, persons that are generally costive, who are accustomed to sit long at stool, and strain hard; pregnant women, or such as have had difficult labours; and likewise persons who have an obstruction in their liver, are for the most part afflicted with the piles; yet every one has not the hemorrhoids, the different causes which are mentioned above being not common to all, or at least not having in all the same effects. When the hemorrhoids are once formed, they seldom disappear entirely, and we may judge of those within the rectum by those which, being at the verge of the arms, are plainly to be seen. A small pile, that has been painful for some days, may cease to be so, and dry up; but the skin does not afterward 409

tain its former firmness, being more lax and wrin-ted, like the empty skin of a grape. If this external dile swells and sinks again several times, we may per-cive, after each return, the remains of each pile, hough shrivelled and decayed, yet still left larger than sefore. The case is the same with those that are situated. refore. The case is the same with most must mare shuted within the rectum; they may happen indeed sever to return again, if the cause that produced them is removed; but it is probable that the excrements in passing out occasion a return of the swelling, to which the external ones are less liable: for the internal piles make a sort of knots or tumours in the intestine, which straightening the passage, the excrements in passing out, occasion irritations there that are more or less painful in proportion to the efforts which the person makes in going to stool; and it is thus these tumours secome gradually larger. The hemorrhoids are subject to many variations; they may become inflamed from the above irritations to which they are exposed, and this inflammation cannot always be removed by In some, the inflammation terminates in an ab degenerates into a fistula. These piles are very paintul till the abscess is formed. In others, the inflammation terminates by induration of the hemorrhoid, which remains in a manner scirrhous. These never lessen, but often grow larger. This scirrhus sometimes ulcerates, often grow larger. and continually discharges a sanies, which the patient perceives by stains on his shirt, and by its occasioning a very troublesome itching about the verge of the anus These kinds of hæmorrhoids sometimes turn cancer-Inese knus or hamorinoids, and those of dif-ferent sizes, which are covered with so fine a skin as frequently to admit blood to pass through. This fine skin is only the internal coat of the rectum, greatly attenuated by the varicose distention of its vessels. either from an exoriation produced by the hardness of the excrements, or from the rupture of the tumefied vessels, which break by their too great distention. In some of these, the patient voids blood almost every time he goes to stool; in others not so constantly. We sometimes meet with men who have a periodical bleeding by the piles, not unlike the menses in women; and as this evacuation, if moderate, does not weaken the constitution, we may infer that it supplies some other evacuation which nature either ceases to carry on, or does not furnish in due quantity; and hence also we may explain why the suppression of this discharge, to which nature had been accustomed, is frequently at-tended with dangerous diseases. The hamorrhoids are sometimes distended to that degree as to fill the rectum, so that if the excrements are at all hard they cannot pass. In this case the excrements force the hæ morrhoids out of the anus to procure a free passage, consequently the internal coat of the rectum, to which they are connected, yields to extension, and upon ex-amining these patients immediately after having been amming these partents immediately arter naving been at stool, a part of the internal coat of that gut is perceived. A difficulty will occur in the return of these, in proportion to their size, and as the verge of the anus is more or less contracted. If the bleeding piles come out in the same manner upon going to stool, it is then they void most blood, because the verge of the anus forms a kind of ligature above them. The treatment forms a king of ugature goove them. The treatment of this compaint will vary much, according to circumstances. When the loss of blood is considerable, we should endeavour to stop it by applying cold water, or ice; or some astringent, as a solution of alum, or sulphate of zinc: but a more certain way is making conphase of zinc. but a more certain way is making con-tinued pressure on the part. At the same time inter-nal astringents may be given; joined with opium, if much pain or irritation attend. Care must be taken, a ovever, to avoid constipation: and in all cases pa-tents find benefit from the steady use of some mild cathartic, procuring regular loose motions. Sulphur is mostly resorted to for this purpose; and especially in combination with supertartrate of potassa, tamarinds, &c. in the form of electuary, usually answers very well; likewise castor oil is an excellent remedy in these well; likewise castor oil is an excellent remedy in these cases. Should the parts be much inflamed, leeches may be applied near the anus, and cold saturnize lotions nsed; sometimes, however, fomenting with the decoction of poppy will give mure relief; where symptomatic fever attends, the antiphlogistic regimen must be exictly observed, and besides clearing the bowels, and any be given to promote diaphoresis. Where 410

the tumours are considerable and flaccid, without inthe tumours are consideration and naccid, without he flammation, powerful astringent or even stimulant applications will be proper, together with similar internal medicines; and the part should be supported by a compress kept on by a proper bandage. An ontiment of galls is often very useful, with opium, to relieve pain; and some of the liquor plumbi subacetatis may be farther added, if there be a tendency to inflam-In these cases of relaxed piles of some standmattor. In these cases of relaxed piles of some stand-ing, the copaiba frequently does much good, both ap-plied locally and taken internally, usually keeping the bowels regular; also the celebrated Ward's paste, a medicine of which the active ingredient is black pep-Sometimes where a large tumour has been formed by extravasated blood, subsequently become organized, permanent relief can only be obtained by extir-

HAMOSTA'SIA. (From aina, blood, and ichui, to

Stand.) A stagnation of blood.

HÆMOSTA TICA. (From aima, blood, and 5aw, to stop.) Medicines which stop hæmorrhages. See to stop.)

to stop.) Received to support in Leyden, in 1704, and became one of the distinguished pupils of the celebrated Boerhaave. After graduating at his native place, he settled at the Hague, where he practised with considerable reputation for nearly 20 years. Baron Van Swieten, being acquainted with the extent of his talents, invited him to Vienna, to assist in the plan of them, which the empress had consented to support in reform, which the empress had consented to support in the medical faculty of that capital. De Haen accordthe medical faculty of that capital. De Haen accordingly repaired thither in 1754, was made professor of the practice of medicine, and fully answered the expectation which had been formed of him. He undertook a system of clinical education, as the best method of forming good physicians: the result of this was the collection of a great number of valuable observations, collection of a great number of valuable observations, which were published in successive volumes of a work, entitled, "Ratio Medendi in Nosocomio Practi co," amounting ultimately to 16. He left also several other works, as On the Division of Fevers, &c., and died at the age of 72. He was generally an enemy to new opinions and innovations in practice, which led him into several controversies; particularly against variolous inoculation, and the use of poisonous plants in medicine: but he exhibited much learning and practical knowledge

Hactos Fe RMUM. (From aγιος, holy, and σπερμα, seed: so called from its reputed virtues.) Wormseed. Hacto'x γιμμ. (From aγιος, holy, and ξυλον, wood: so named because of its medical virtues.) Gusiacum.

HAIR. See Capillus.
[HAIR SALT. The Haar salz, (or hair salt,) of Werner, formerly supposed to be a variety of alum, is, according to Klaproth, a mixture of the sulphates of magnesia and iron.—Cleav. Min. A.]

HALA'TIUM. (From a)6, salt.) A clyster, composed

chiefly of salt.

Halberd-shaped leaf. See Leaf. [HALB-OPAL. This is the Semi-opal of Jameson, and Halbora-snaped tear. See Lear. [HAlb-opal of Jameson, and Cleaveland. The other synonymes are La demi-opal of Brochant, sider résnite of Brogniat; Quartz résinite commune of Haüy: all these being the same as the Halb-opal of Werner. "This variety is a little harder than the precious opal, and is easily broken. Its fracture is imperfectly conchoidal with large caviits fracture is imperced to the fracture in the sor nearly even, usually more or less glistening and a little resinous, but sometimes nearly dull. The edges of the conchoidal fracture, and those of the fragments, are usually very sharp. It is more or less fragments, are usually very sharp. It is more or less translucent, sometimes only in a slight degree at the edges, and some specimens are semitransparent." Cleav. Men. A.]

Halche'nia. (From alg. salt, and χεω, to pour out.) The art of fusing salts

HALELE'UM. (From aλς, salt, and ελαιον. oil.) medicine composed of salt and oil.

medicine composed of sait and oil.

IALICA CARTM. (From αλς the sea, and κακαδος, night-shade: eo called because it grows upon the banks of the sea.) See Physaits alkekengi.

HA'LIMIS. (From αλιμος, belonging to the sea.) The Atriplex halimus of Linnæus. or sea-purslain, said to be amispasmodic.

TTRUM. (From als, the sea, and νι 7ρον. Nitre, or rather rock salt. HALINI'TRUM.

niire.) Nitre, or rather rock sant.

HA'LITUS. (From halito, to breathe out.) A

HALLER, ALBERT, was born at Berne, where his 'Arctium lappn: the seeds of Daucus muricatus, and father was an advocate, in 1709. He displayed, at a Alasma conditioning the very early age, extraordinary marks of industry and talents. He was intended for the church, but having there is an excellent chalybeate water, not inferior to talents. He was intended for the charter, but not below the fourth of the following th by the reputation of Boerhaave, to whom he has expressed his obligations in the most affectionate terms; but he took his degree at the former place, when about but he took his degree at the former place, when about seventeen years of age. He soon after visited England and France; then returning to his native country, first acquired a taste for botany, which he pursued with great zeal, making frequent excursions to the neighbouring mountains. He also composed a "Poem on the Alps," and other pieces, which were received with much applause. Having settled in his native city, about 1730, he began to give lectures on anatomy, but with indifferent success; and some detached pieces on anatomy and botany having gained him considerable reputation abroad, he was invited by George II., in 1736, to become professor in the university, which he had recently founded at Gottingen. He accepted this advantageous offer, and, though his arrival cepted this advantageous offer, and, though his arrival was rendered melancholy by the loss of a beloved wife, from some accident which occurred in the journey, he commenced at once the duties of his office with great zeal; he encouraged the most industrious of his pupils to institute an experimental investigation on some part of the animal economy, affording them his assistance therein. He was likewise himself indefatigable in similar researches, during the seventeen years which he spent there, having in view a grand reform in physiology, which his writings ultimately effected, dissistance of the procedure of the pr siology, which his writings ultimately effected, dissipating the metaphysical and chemical jargon, whereby it was before obscured. He procured the establishment of a botanic garden, an anatomical theatre, a rethool for surgery and for midwifery, with a lying-in hospital, and other useful institutions at that university. He received also many honourable testimonies of his faine, being chosen a member of the Royal Societies of Stockholm and London, made physician and counsellor to George II., and the emperor conferred on him the title of Baron; which, however, he declined, as it would not have been esteemed in his native country. To this he returned in 1753, and during the To this he returned in 1753, and during the country. remainder of his life discharged various important public offices there. He ultimately received every testimony of the general estimation in which he was held; the learned societies of Europe, as well as several sovereigns, vying with each other in conferring honours upon him. His constitution was delicate, and impatience of pain, or interruption to his studies, led him to use violent remedies when ill; however, by temperance and activity, he reached an advanced age, having died towards the end of 1777. He was one of the most universally informed men in modern times. He spoke with equal facility the German, French, and Latin languages; and read all the other tongues of Eu-rope, except the Sclavonic; and there was scarcely any book of reputation, with which he was not ac-quainted. His own works were extremely numerous, quainted. His own works were extremely numerous, on anatomy, physiology, pathology, surgery, botany, &c., besides his poems and political and religious publications. The principal are, 1. His large work on the Botany of Switzerland, in 3 vols. folio, with many plates; 2. Commentaries on Boerhaave's Lectures, 7 vols. octavo; 3. Elements of Physiology, 8 vols. quarto, a work of the greatest merit; 4. His "Bibliotheca," or Chronological Histories of Authors, with brief Analyses; 2 vols. quarto on Botany, two on Surgery, two on Anatomy, and four on the Practice of Medicine, displaying an immense body of research. HALLUCINATIO. (From hallucinor, to err.)

An erroneous imagination.

Halmyro'des. (From αλμυρος, salted.) A term applied to the humours; it means acrimonious. It is also applied to fevers which communicate such an itching sensation as is perceived from handling salt

HA'LO. (From αλος, an area or circle.) The red circle surrounding the nipple, which becomes somewhat brown in old people, and is beset with many sebaceous glands.

HAMA LGAMA. See Amalgam.
HAMOSUS. Hooked. Applied to the bristly pubescence of seeds and plants; as the pericarpe of the

that of Tunbridge-wells in any respect, except being nearer to the metropolis.

HA'MULUS. (Diminutive of hamus, a hook.) A term in anatomy, applied to any hook-like process, as the hamulus of the pterygoid process of the sphenoid

HA'MUS. A hook. A species of pubescence of plants formed of bristles, bent at their point into a hook; as in Rumex tuberosus, Caucalis daucoides, and

Blook; as in Icomes tropersus, Caucais daucordes, and Galium aparine, &c.

HAND. Manus. The hand is composed of the carpus or wrist, metacarpus, and fingers. The arteries of the hand are the palmary arch, and the digital arteries. The veins are the digital, the cephalic of the thumb, and the salvatella. The nerves are the cutaneous, externus, and internus.

neous, externus, and internus.

HARDE Sta. See Lapis Hibernicus.

HARE-LIP. Lagocheilus; Lagostoma; Labium leporinum. A fissure or longitudinal division of one or both lips. Children are frequently born with this kind of malformation, particularly of the upper lip. Sometimes the portions of the lip which ought be united, have a considerable ance, hattwayn them: ip, other Sometimes the portions of the up which ought be united, have a considerable space between them; in other instances they are not much apart. The cleft is occasionally double, there being a little lobe, or small portion of the lip, situated between the two fissures. Every species of the deformity has the same appellation of hare-lip, in consequence of the imagined resemblance which the part has to the upper lip of a bare.

The fissure commonly affects only the lip itself. In many cases, however, it extends along the bones of the palate, even as far as the uvula. Sometimes these bones are totally wanting: sometimes they are only

divided by a fissure.

Such a malformation is always peculiarly afflicting. Such a manormation is always peculiarly anisons. In its least degree, it constantly occasions considerable deformity; and when it is more marked, it frequently hinders infants from sucking, and makes it indispensable to nourish them by other means. When the lower lip alone is affected, which is more rarely the case, the child can neither retain its saliva, nor learn to speak, except with the greatest impediment. But when the fissure pervades the palate, the patient

But when the fissure pervades the paiate, the patient not only never articulates perfectly, but cannot masticate nor swallow, except with great difficulty, on account of the food readily getting up into the nose. HARMO'NIA. (From  $ap\omega$ , to fit together.) Harmony. A species of synarthrosis, or immoveable connexion of bones, in which bones are connected together by means of rough margins, not dentiform: In this manner most of the bones of the face are connected together.

HARMOTOME. See Cross-stone

HARRIS, WALTER, was born at Gloucester about the year 1651. He took the degree of bachelor of physic at Oxford, but, having embraced the Roman Casic at Oxford, but, having embraced the Roman Catholic religion, he was made doctor at some French university. He settled in London in 1676, and two years after, to evade the order that all Catholics should out the metropolis, he publicly adopted the Protestant Faith. His practice rapidly augmented, and on the accession of William III. he was appointed his physician in ordinary. He died in 1725. His principal work, "De Morbis Acutis Infantum," is said to have been published at the suggestion of the celebrated Sydenham: It passad through several editions. He left also a Treatise on the Plague, and a collection of medical and surgical papers, which had been read before the College of Physicians.

dical and surgical papers, which had been read before the College of Physicians.

HARROGATE. The villages of High and Low Harrogate are situate in the centre of the county of York, adjoining the town of Knaresborough. The whole of Harrogate, in particular, has long enjoyed considerable reputation, by possessing two kinds of very valuable springs: and, some years ago, the chalybeate was the only one that was used internally while the sulphureous water was confined to external use. At present, however, the latter is employed largely as an internal medicine.

The sulphureous springs of Harrogate are four in number, of the same quality, though different in the

number, of the same quality, though different in the

degree of their powers. This water, when first taken | procuring her a reward from Parliament; yet he is appears perfectly clear and transparent, and sends forth a few air bubbles, but not in any quantity. It possesses a very strong sulphureous and field smell, precisely like that of a damp rusty gun barrel, or bilge-water. To the taste it is bitter, nauseous, and strongly saline, which is soon borne without any disgust. In a few hours of exposure this water loses its transparento the eye; its sulphureous smell abates, and at last the sulphur is deposited in the form of a thin film, on the bottom and sides of the vessel in which it is kept. The volatile productions of this water show carbonic

acid, sulphuretted hydrogen, and azotic gas.

The sensible effects which this water excites, are often a headache and groomess on being first drunk. followed by a purgative operation, which is speedy and mild, without any attendant gripes; and this is the only apparent effect the exhibition of this water dis-

The diseases in which this water is used are numerous, particularly of the alimentary canal, and irregularity of the binous secretions. Under this water the health, appetite, and spirits improve; and, from its opening effects, it cannot fail to be useful in the costive habit of hypochondriasis. But the highest recom-mendation of this water has been in cutaneous discases, and for this purpose it is universally employed, both as an internal medicine, and an external applica-tion: in this united form, it is of particular service in the most obstinate and complicated forms of cutaneous affections; nor is it less so in states and symptoms supposed connected with worms, especially with the round worm and ascarides, when taken in such a dose as to prove a brisk purgative; and in the latter case also, when used as a clyster, the ascarides being chiefly confined to the rectum, and, therefore, within the reach of this form of medicine. From the union of the sulphurcous and saline ingredients, the benefit of its use has been long established in hæmorrhoidal affections.

A course of Harrogate waters should be conducted so as to produce sensible effects on the bowels; half a pint taken in the morning, and repeated three or four times, will produce it, and its nauseating taste may be corrected by taking a dry biscuit, or a bit of coarse bread after it. The course must be continued, in obstinate cases, a period of some months, before a cure

HARTFELL. The name of a place near Moffat, in Scotland. It has a mineral water which contains iron dissolved by the sulphuric acid, and is much celebrated in scrofulous affections, and cutaneous diseases: It is used no less as an external application, than drank internally. The effects of this water, at first, are some degree of drowsiness, vertigo, and pain in the head, which soon go off, and this may be hastened by a slight purge. It produces generally a flow of urine, and an increase of appetite. It has acquired much reputation also in old and languid ulcers, where the texture of the diseased part is very lax, and the discharge HARTFELL. The name of a place near Moffat, in ture of the diseased part is very lax, and the discharge profuse and ill conditioned.

The dose of this water is more limited than that of

The dose of this water is more immed that that of most of the mineral springs which are used medicinally. It is of importance in all cases, and especially in deficate and irritable habits, to begin with a very small quantity, for an over-dose is apt to be very soon rejectquantity, for an over-cose is an to be very soon rejected by the stomach, or to occasion griping and disturbance in the intestinal canal; and it is never as a direct purgative that this water is intended to be employed. Few patients will bear more that an English pint in the course of the day; but this quantity may be long continued. It is often advisable to warm the water for delicate stomachs, and this may be done without occasioning any material change in its pro-

perties.

HARTLEY, DAVID, was born in 1705, son of a clergyman in Yorkshire. He studied at Cambridge, and was intended for the church, but scruples about subscribing to the 39 Articles ied him to change to the medical profession; for which his talents and benevolent disposition well qualified him. After practising in London, but finally went to Bath, where he died in in London, but finally went to Bath, where he died in 1757. He published some tracts concerning the stone, especially in commendation of Mrs. Stepheness medicine, and appears to have been chiefly instrumental in of bodies.

procuring here a resource from regulament; yet he he said to have died of the disease after taking about two hundred pounds of soap, the principal highestern in that nostrum. Some other papers were also written by him; but the principal work, upon which his fame by hin; but the principal work, upon which his fame securely rests, is a metaphysical freatise, entitled "Ob-servations on Man, his Frame, his Duty, and his Expectations." The doctrine of vibration, indeed, on which he explained sensation, is merely gratuitous; but his Disquisitions on the Power of Association, and other mental Phenomena, evince great subtlety and accuracy of research.
HARTSHORN. See Cornu.
Hartshorn sharings. See Cornu.
HART'S-TONGUE. See Asple

See Asplenium scholopen-

drium.

HART-WORT. See Laserpitium siler.

Hart-wort of Marseidles. See Seseli tortuosum.

HARVEY, WILLIAM, the illustrious discoverer of the circulation of the blood, was born at Folkstone, in Kent, in 1578. After studying four years at Cambridge, he went abroad at the age of 19, visited France and Germany, and then fixed himself at Padua, which was the most celebrated medical school in Europe, where he was created Doctor in 1602. On returning to Engineer. he was created Doctor in 1002. On returning to England we repeated ins graduation at Cambridge, and settled in London: he became a Fellow of the College of Physicians in 1603, and soon after physician to St. Bartholomew's hospital, In 1615 he was appointed Lecturer on Anatomy and Surgery to the College, which was probably the more immediate cause of the publiwas probably the more immediate cause of the publi-cation of his grand discovery. He appears to have withheld his opinions from the world, until reiterated experiment had confirmed them, and enabled him to prove the whole in detail, with every evidence of which the subject will admit. The promulgation of this important doctrine brought on him the most unjust this important dootrine brought on him the most impust opposition, some condemning it as an innovation, others pretending that it was known before; and he complained that his practice materially declined afterward: however, he had the satisfaction of living to see the truth fully established. He likewise received considerable marks of royal favour from James and Charles I., to whom he was appointed physician; and the latter particularly assisted his inquiries concerning generation, by the opportunity of dissecting numerous females of the deer kind in different stages of pregnan-During the civil war, when he retired to Oxford, his house in London was pillaged, and many valuable papers, the result of several years labour, destroyed. He published his first work on the circulation in 1628, at Frankfort, as the best means of circulating his opinions throughout Europe; after which he found it necessary to write two "Exercitations" in refutation of his concents. In 1651 he alterned his observed. of his opponents. In 1651 he allowed his other great work, "De Generatione Animalium," to be made public, leading to the inference of the universal prevalence of oval generation. In the year following he had the gratification of seeing his bust in marble, with a suitable inscription recording his discoveries, placed in suitable inscription recording his discoveries, placed in the hall of the College of Physicians, by a vote of that body, and he was soon after chosen President, but declined the office on account of his age and infirmities. In return he presented to the College an elegantly furnished convocation room, and a museum filted with choice books and surgical instruments. He also gave up his paternal estate of 55 pounds per annum for the institution of an annual feast, at which a Latin oration should be spoken in commemoration of the beneficators of the College, &c. He died in 1655. A subendial edition of his works was printed in 1766, by the College, majusto, to which a Latin life of the author was prefixed, written by Dr. Lamence.

HASTATUS. Spear, or halberd-shaped. Applied to a triangular leaf, hollowed out at the base and sides, but with spreading lobes; as in Rumez accelerla and

but with spreading lobes; as in Rumex acetocella and

Solanum dulcamara.

Hatcht-shaped. See Dolabriformis.
HATYNE. A blue-coloured mineral found imbedded in the basalt rock of Albaco and Frescate, which Jameson thinks is allied to the agure stone. So named after Haw, the celebrated French mineralogist.

HEAD. See Caput.
HEAD. Auditas. "The hearing is a function intending to make known to us the vibratory motion

Sound is to the hearing what light is to the sight. Sound is the result of an impression produced upon the ear by the vibratory motion impressed upon the atoms of the body by percussion, or any other cause. word signifies also the vibratory motion itself. the atoms of a body have been thus put in motion, they communicate it to the surrounding elastic bodies: these communicate it in the same manner, and so the vibratory motion is often continued to a great distance. In general, only elastic bodies are capable of producing and propagating sound; but for the most part solid bodies produce it, and the air is generally the medium which it reaches the ear

There are three things distinguished in sound, in-

There are three things of expression. The intensity, foreign and rimbre, or expression. The intensity of sound depends on the extent of the vibrations.

The tone depends on the number of vibrations which are produced in a given time, and, in this respect, sound is distinguished into acute and grave. The grave sound arises from a small number of vibrations of the grave sound arises from a small number of vibrations.

brations, the acute from a great number

The gravest sound which the air is capable of perceiving, is formed of thirty-two vibrations in a second. The most acute sound is formed of twelve thousand vibrations in a second. Between these two limits are contained all the distinguishable sounds; that is those sounds of which the ear can count the vibration. differs from distinguishable sound in so much as the ear cannot distinguish the number of vibrations of which it is composed.

A distinguishable sound, composed of double the number of vibrations of another sound, is said to be its octave. There are intermediate sounds, between these

octave. There are intermediate sounds, fetween these two, which are seven in number, and which constitute the diatonic scale, or namnt: they are distinguished by the names, ut, re, mi, fu, sol, la, si. When the sconorous body is put in motion by percussion, there is at first heard a sound very distinct, more or less incluse, more or less neute, &c., according as it may happen; this is the fundamental sound; but with a little attention other sounds can be perceived. are called harmonic sounds. This can be easily per-ceived in touching the strings of an instrument.

The timbre, or expression of sound, depends on the

nature of the sonorous body.

Sound is propagated through all elastic bodies. sound is propagated through all elastic bodies. Its rapidity is variable according to the body which propagates it. The rapidity of sound in the air is a thousand one hundred and thirty English feet. It is still more rapidly transmitted by water, stone, wood, &c. Sound loses its force in a direct proportion to the square of the distance; this happens at least in the air. It may also become more intense as it proceeds; as happens when it passes through very clastic bodies, such as metals wood condensed at &c. All sorts of sounds. as metals, wood, condensed air, &c. All sorts of sounds are propagated with the same rapidity, without being confounded one with another.

It is generally supposed that sound is propagated in fight lines, forming cones, analogous to those of light, with this essential difference, however, that, in sonorous cones, the atoms have only a motion of oscillation, while those of the cones of light have a real transitive

motion.

When sound meets a body trac prevent and it is reflected in the same manner as light, its angle of incidence. The When sound meets a body that prevents its passage, reflection being equal to the angle of incidence. form of the body which reflects sound, has similar if fluence upon it. The slowness with which sound propagated, produces certain phenomena, for which we can easily account. Such is the phenomenon of

ocho, of the mysterious chamber, &cc.

Apparatus of Heaving.—There are in the apparatus of hearing a number of organs, which appear to concur in that function by their physical properties; and behind them, a nerve for the purpose of receiving

and transmitting impressions.

The apparatus of hearing is composed of the outer, middle, and internal ear; and of the acoustic nerve.

The amicle collects the somerous radiations, and di-

rects them towards the meatus externus; in proportion as it is large, clastic, prominent from the head, and directed forward. Boc.heave supposed he had proved by catentiation, that all the sonorous radiations (or pulsations, which fall upon the external face of the pinna, are, ultimately, directed to the auditory passage. This assertion is evidently erroneous, at least for those pinness. in which the antiheliz is more projecting than the helix.

How could those rays arrive at the concha, which fall upon the posterior surface of the antihelix? The pinna is not indispensable to the hearing; for, both in men and in the animals, it may be removed without any inconvenience beyond a few days.

any inconvenience beyond a few days.

The Meatus auditorius transmists the sound in the same manner as any other conduit, partly by the airst contains, and partly by its parietes, until it arrives at the membrare of the tympanum. The hairs, and the cerumen with which it is provided at the entrance, are intended to prevent the introduction of sand, dust,

insects, &c.

The Membrane of the Tympanum receives the sound which has been transmitted by the meatus auditorius. In what circumstances is it stretched by the ditorius. In what circumstances is it stretched by the internal muscle of the malleus? Or when is it relaxed by the contraction of the anterior muscle of the malleus?—Ail our knowledge on this subject is merely conjectural. An opening made in this membrane does not much impair the faculty of hearing. As this membrane is dry and elastic, it ought to transmit the sound very well, both to the air contained in the tympanum, and to the chain of little bones. The chorda tympair cannot fail to participate in the vibrations of the memcannot fail to participate in the vibrations of the membrane, and transmit impressions to the brain. The contact of any toreign body upon the membrane is very painful, and a violent noise also gives great pain. The membrane of the tympanum may be torn, or even totally destroyed, without deranging the hearing in any sensible degree.

totally destroyed, without deranging the nearing in any sensible degree.

The Cavity of the Tympanum transmits the sounds from the external to the internal ear. The transmission of sound by the tympanum happens—lat, By the chain of bones which has a particular action upon the membrane of the fenestra ovalis. 2d, By the air which fills it, and which acts upon the whole petrous portion, but particularly upon the membranum of the fenestra ovalis. 3d, By its sides.

The Eustachan Tube renews the air in the tympanum; being destroyed, it is said to cause deafness. The notion of its being cryathe of carrying sound to the internal ear is erroneous; there is nothing to support this assertion: it permits the air to pass in cases when the tympanum is struck by violent sounds, and it permits the renewal of that which fills the tympanum, and the mastoid cells. The air in the tympanum being much rarefied, is very suitable for diminishing the intensity of the sounds it transmits.

The use of the mastoid cells is not well known; it is supposed that they help to augment the intensity of the sound that arises in the cavity. If they produce this effect it ought to be rather from the vibrations of

this effect it ought to be rather from the vibrations of the partitions which separate the cells than from the air which they contain. Sound may arrive in the tympanum by another way than the external meatus; the shocks received by the bones of the head are di-

rected towards the temples, and perceived by the ear. It is well known that the movement of a watch is heard distinctly when it is placed in contact with the

We know little of the functions of the internal ear; we can only imagine that the sonorous vibrations are we can only imagine that the someones violations are propagated in different modes, but principally by the membrane of the fenestra ovalis, by that of the fe-nestra rotunda, and by the internal partition of the tempanum; that the liquor of Cotunnius ought to suffer

vibrations which are transmitted to the acoustic nerve It may be conceived how necessary it is that this liquid should give way to those vibrations which are too in-tense, and which might injure this nerve. Possibly, in has case, it flows into the aqueducts of the cocklea and of the vestibule, which, in this respect, would

have a great deal of analogy with the Eustachian. The internal gypi of the cocklea ought to receive the vibrations principally by the membrane of the fenestra oralis; the vestibule, by the chain of bones; the semi-circular canals, by the sides of the tympanum, and perhaps by the mastoid cells, which frequently extend beyond the canals. But the aid which is given to the hearing by each separate part of the internal ear is totally miknown. totally unknown.

The osseo-membraneous partition, which separates

The ossessmental and the capture of the capture and the capture and the two parts, has given rise to an hypothesis which no one now admits.

The impressions are received and transmitted to the brain by the acoustic nerve; the brain perceives 413

ticularly appreciable sounds, combined, and succeeding each other in a certain manner, are a source of agreeable sensations. It is in such combinations, for the production of this effect, that music is employed. the production of this effect, that music is employed. On the contrary, certain combinations of sound produce a disagreeable impression; the ear is hurt by very acute sounds. Sounds which are very intense and very grave, hurt excessively the membrane of the tympanum. By the absence of the liquor of Cotunius, the hearing is destroyed. When a sound has been of long duration, we still think we hear it, though it may have been some time discontinued.

We receive two impressions, though we perceive only one. It has been said that we use only one ear at once, but this notion is erroneous.

When the sound comes more directly to the one ear, it is in reality distinguished with more facility by that

It is in reality distinguished with more facility by that one, than by the other: therefore in this case we employ only one ear; and when we listen with attention to a sound which we do not hear exactly, we place ourselves so that the rays may enter directly into the concha; but when it is necessary to determine the direction of the sound, that is, the point whence it proceeds, we are obliged to employ both ears, for it is only by comparing the intensity of the two impressions, that we are capable of deciding from whence the sound proceeds. Should we shut one ear perfectly close, and cause a slight noise to be made, in a dark place, at a short distance, it would be utterly impossible to determine its direction; in using both ears this could be determined. In these cases the eye is of it is in reality distinguished with more facility by that could be determined. In these cases the eye is of great use, for even in using both ears it is frequently impossible to tell in the dark from whence a sound comes. By the sound we may also estimate the distance of the body from which it proceeds: but in order to judge exactly in this respect we ought to be perfectly acquainted with the nature of the sound, for without this condition the estimation is always erroneous. The principle upon which we judge is, that an intense sound proceeds from a body which is near, while a feeble sound proceeds from a body at a distance: if it happen that an intense sound comes from a distant body while a feeble sound proceeds from a body while a feeble sound proceeds from a body which is near, we fall into acoustic errors. We are generally very subject to deception with regard to the point whence a sound comes: sight and reason are of great use in assisting our judgment.

The different degree of convergence, and divergence, of the sonorous rays, do not seem to have any influof the sonorous rays, do not seem to have any influence on the hearing, neither are they modified in their course, except for the purpose of making them enter into the ear in greater quantity: it is to produce this effect that speaking trumpets are used for those who do not hear well. Sometimes it is necessary to diminish the intensity of sounds: in this case a soft and searcely elastic body is placed in the external meature."

man the intensity of solutions. If this case a soft and searcely elastic body is placed in the external ineatus."

—Magendie's Physiology.

HEART. Cor. A hollow muscular viscus, situated in the cavity of the pericardium for the circulation of the blood. It is divided externally into a base, or its broad part; a superior and an inferior surface, and an anterior and posterior margin. Internally, it is divided into a right and left ventricle. The situation of the heart is oblique, not transverse; its base being placed on the right of the bodies of the vertebrae, and its apex obliquely to the sixth rib on the left side; so that the left ventricle is almost posterior, and the right anterior. Its inferior surface lies upon the diaphragm. There are two cavities adhering to the base of the heart, from their resemblance called arricles. of the heart, from their resemblance called auricles. The right auricle is a muscular sac, in which are four apertures, two of the venæ cavæ, an opening into the right ventricle, and the opening of the coronary vein. The left is a similar sac, in which there are five aper-tures, viz. those of the four pulmonary veins, and an opening into the left ventrice. The cavities in the heart are called ventricles: these are divided by a

them with more or less facility and exactness in different individuals. Many people have a false ear, which means that they do not distinguish sounds perfectly.

There is no explanation given of the action of the accustic nerve and of the brain in hearing.

In order to be heard, sounds must be within certain limits of intensity. Too strong a sound hurts us, while one too weak produces no sensation. We can perceive a great number of sounds at once. Sounds, particularly appreciable sounds, combined, and succeeding each other in a certain manner, are a source of agreeable sensations. It is in such combinations, for the production of this effect, that music is employed. perfices of the ventricles and suricles of the heart are invested with a strong and smooth membrane, which is extremely irritable. The vessels of the heart are divided into common and proper. The common are, 1. The aorta, which arises from the left ventricle. 2. The pulmonary artery, which originates from the right ventricle. 3. The four pulmonary veins, which terminate in the left suricle. 4. The two news cave, which evacuate themselves into the right suricle. The proper vessels are, 1. The coronary arteries, which arise from the aorta, and are distributed on the heart. 2. The coronary veins, which return the blood into the right suricle. The pirroes of the heart are branches of the eight and great intercostal pairs. The heart of the facts differs from that of the adult, in laving a perfices of the ventricles and auricles of the heart are the focus differs from that of the adult, in having a forquen orale, through which the blood passes from the right auricle to the left.

Heart shaped. See Cordatus.
HEART'S EASE. See Viola tricolor.

HEAT. See Caloric.
HEAT, ABSOLUTE. This term is applied to the whole quantity of caloric existing in a body in chemical

"An inert body which does not Heat, animal. "An inert body which does not change its position, being placed among other bodies, very soon assumes the same temperature, on account of the tendency of caloric to an equilibrium. The body of man is very different; surrounded by bodies hotter than itself, it preserves its inferior temperature ANIMAL. as long as life continues; being surrounded with bodies of a lower temperature, it maintains its temperature more elevated. There are, then, in the animal econo-my, two different and distinct properties, the one of pro-ducing heat, the other of producing cold. We will examine those two properties. Let us first see how heat is produced.

The respiration appears to be the principal, or at least the most evident source of animal heat. In fact, experience demonstrates that the heat of the blood increases nearly a degree in traversing the lungs; and as it is distributed to all parts of the body from the lungs, it carries the heat every where into the organs; for we have also seen that the heat of the veins is less

This developement of heat in the respiration appears, I his development of near in the respiration appears, as we have already said, to proceed from the formation of carbonic acid, whether it takes place directly in the lungs, or happens afterward in the arteries, or in the parenchyma of the organs. Some very good experiments of Lavoisier, and De Laplace, lead to this conclusion. ments of Lavoister, and De Laplace, lead to this con-clusion: they placed animals in a catarimeter, and compared the quantity of acid formed by the respira-tion, with the quantity of heat produced in a given time: except a very small proportion, the heat produced was that which would have been occa-sioned by the quantity of carbonic acid which was formed.

formed. It has also been proved by the experiments of Bro-die, Thillage, and Legallois, that if the respiration of an animal is incommoded, either by putting it in a fatiguing position, or in making it respire artificially, its temperature lowers, and the quantity of carbonic acid that it forms becomes less. In discases when the respiration is accelerated, the heat increases, except in particular circumstances. The respiration is then a focus in which caloric is developed.

In considering for an instant only this source of heat in the economy, we see that the caloric must be dis-tributed to the different parts of the body in an unequal manner; those farthest from the heart, those that re-ceive least blood, or which cool more rapidly, must generally be colder than those that are differently dis-

This difference partly exists. The extremities are

colder than the trunk; sometimes they present only 89° or 91° F., and often much less, while the cavity of the thorax is about 104° F.: but the extremities have a considerable surface relative to their mass; they are farther from the heart, and receive less blood than most of the organs of the trunk.

On account of the extent of their surface and distance from the heart, the feet and hands would probably have a temperature still lower than that which is peculiar to them, if these parts did not receive a greater proportional quantity of blood. The same disposition exists for all the exterior organs that have a very large surface, as the nose, the pavilion of the ear, &c.: their temperature is also higher than their surface and distance from the heart would seem to indicate

Notwithstanding the providence of nature, those parts that have large surfaces lose their caloric with greater facility; and they are not only habitually colder than the others, but their temperature often be comes very low: the temperature of the feet and hands in winter is often nearly as low as 32° F. It is on this account we expose them so willingly to the

heat of our fires.

Among other means that we instinctively employ to remedy or prevent coldness, are motion, walking, running, leaping, which accelerate the circulation; pressure, shocks upon the skin, which attract a great quantity of blood into the tissue of this membrane. ther equally effective means consists in diminishing the surface in contact with the bodies that deprive us of caloric. Thus we bend the different parts of the limbs upon each other, we apply them foreibly to the trunk when the exterior temperature is very low. Children and weak persons often take this position when in bed. In this respect it would be very proper that young children should not be confined too much in their swathing clothes to prevent them from thus bending themselves. Our clothes preserve the heat of our bodies; for the substance of which they are formed being bad conductors of caloric, they prevent that of the

being ban conductors of caloric, they prevent that of the body from passing off.

According to what has been said, the combination of the oxygen of the air with the carbon of the blood is sufficient for the explanation of most of the pheno-mena presented by the production of animal heat; but there are several which, if real, could not be explained by this means. Authors worthy of credit have remarked, that, in certain local diseases, the temperature of the diseased place rises several degrees above that of the blood, taken at the left auricle. If this is so, the continual renewal of the arterial blood is not sufficient

to account for this increase of heat.

This second source of heat must belong to the nutritive phenomena which take place in the diseased part.
There is nothing forced in this supposition; for most

of the chemical combinations produce elevations of temperature, and it cannot be doubted that both in the secretions and in the nutrition, combinations of this sort take place in the organs.

By means of these two sources of heat, life can be maintained though the external temperature is very maintained though the external temperature is very low, as that of winter in countries near the pole, which descends sometimes to -42° F. Generally such an excessive cold is not supported without great difficulty, and it often happens that the parts most easily cooled are mortified; many of the military suffered these accidents in the wats of Russia. Nevertheless, as we easily resist a temperature much lower than our own, it is evident that we are possessed of the faculty of proit is evident that we are possessed of the faculty of pro-

ducing heat to a great degree.

The faculty of producing cold, or, in more exact terms, of resisting foreign heat, which has a tendency to enter our organs, is more confined. In the torrid zone, it has happened that men have died suddenly,

when the temperature has approached 1929 F.
But this property is not less real, though limited. Banks, Blagden, and Fordyce, having exposed themselves to a heat of nearly 260°, they found that their odies had preserved nearly their own temperature. More recent experiments of Berger and Delaroche have More recent experiments of berger and Detartoric nave shown that by this cause the heat of the body may rise several degrees; for this to take place it is only necessary that the surrounding temperature should be a little elevated. Having both placed themselves in a stove of 139, their temperature rose nearly 6.5° E. Delaroche having remained sixteen minutes in a dry stove at 1760, his temperature rose 90 F.

Franklin, to whom the physical and moral sciences are indebted for many important discoveries, and a great many ingenious views, was the first who discovered the reason why the body thus resists such a strong heat. He showed that this effect was due to the evaporation of the cutaneous and pulmonary transpiration, and that in this respect the bodies of animals resemble the porous vases called alcarrazas. sels, which are used in hot countries, allow the water that they contain to sweat through them; their surface is always humid, and a rapid evaporation takes place, which cools the liquid they contain.

In order to prove this important result, Delaroche placed animals in a hot atmosphere that was so satu placed animals in a not atmosphere that was so saturated with humidity that no evaporation could take place. These animals could not support a heat but a little greater than their own without perishing, and they became heated, because they had no longer the means of cooling themselves. Thus, there is no doubt that the cutaneous and pulmonary evaporation that the cutaneous and pulmonary evaporation and countries to resist the second countries. acute that the cutaneous and pulmonary evaporation are the causes which enable man and animals to resist a strong heat. This explanation is also confirmed by the considerable loss of weight that the body suffers after having been exposed to a great heat.

According to these facts it is evident that the authors who have represented animal heat as fixed, have

tuors who have represented animan near as mee, have been very far from the truth. To judge exactly of it, it would be necessary to take into account the sur-rounding temperature and humidity; the degree of heat of different parts ought to be considered, and the temperature of one part ought not to be determined by

that of another.

We have few correct observations upon the temperature proper to the body of man; the latest are due to Edwards and Gentil. These authors observed that the most suitable place for judging of the heat of the body is the armpit. They noticed nearly \$\frac{1}{2}\$ degrees of difference between the heat of a young man and of difference between the heat of a young man and that of a young gir: the heat of her band was a little less than 9749, that of the young man was 98.49. The same person observed great differences of heat in the different temperaments. There are also diurnal variations; the temperature may change about two or three degrees from morning to evening—Ure's Chem. Dict. HEAT, FREE. If the heat which exists in any sub-

stance be from any cause forced in some degree to quit that substance, and to combine with those that surround it, then such heat is said to be free, or sensible,

round t, then such near is said to be nee, or sensine, until the equilibrium is restored.

HEAT, LATENT. When any body is in equilibrium with the bodies which surround it with respect to its heat, that quantity which it contains is not perceptible. by any external sign, or organ of sense, and is termed combined caloric, or latent heat.

Heat, sensible. See Heat, free.

Heavy carbonated hydrogen. See Carburetted hy-

drogen.

HEAVY SPAR. Baryte. A genus of minerals, divided by Professor Jameson into four species.

1. Rhomboidal baryte, or Witherite. This is a carbonate of barytes; and is found in Cumberland and Durham.

2. Prismatic baryte, or heavy spar, a sulphate; found also in Cumberland and Durham.

3. Diprismatic baryte, or strontianite. A cof barytes; found in Strontian, in Argyleshire.

4. Axifrangible baryte, or Celestine. A sulphate of strontites, with about two per cent. of sulphate of barytes: found near Edinburgh, in Inverness-shire, and Bristol

Heavy inflammable air. See Carburetted hydrogen

HEBERDEN, WILLIAM, was born in London in 1710, and graduated at Cambridge, where he afterward 1710, and graduated at Cambridge, where he afterward practised during ten years, and gave lectures on the Materia Medica. During this period he published a little Tract, entitled "Antitheriaca," condemning the complication of certain ancient Formule of Medicines. In 1748, he removed to London, having previously been elected a fellow of the College of Physicians; and he was shortly after admitted into the Royal Society. He soon rose to considerable reputation and practice in fits profession. At his suggestion "the Medical Transactions of the College of Physicians." first appeared in 1768; and four other volumes. cians," first appeared in 1768; and four other volumes have since been published at different periods. Dr. Heberden contributed some valuable papers to this

work, especially on the Augina Pectoris, a disease not before described; and on Chicken Pox, which he first accurately distinguished from Small Pox. Some other accurately distinguished from Small Pox. Some other papers of his appeared in the Philosophical Transactions. As he advanced in years he began to relax from the fatigue of practice: and in 1762 he drew up the result of his experience in a volume of "Commentaries," written in Latin, the great excellence of which is its style. He reserved it for publication, however, till after his death, which did not happen till 1891.

HECTIC. (Hecticus; from ctts, habit.) See Febris Plantics.

HEDERA. (From kareo, to stick, because it attaches itself to trees and old walla.) The name of a
genus of plants in the Linnean system. Class, Pentandria; Order, Monogynia. The ivy.
HEDERA ARBOREA. See Hedera Heliz.

HEDERA HELIX. Hedera arborea. The ivy. The leaves of this tree have little or no smell, but a very nauseous taste. Haller informs us, that they are re-commended in Germany against the atrophy of chil-dren. By the common people of this country they are dren. By the common people of this country they are sometimes applied to running sores, and to keep issues open. The berries were supposed by the ancients to have a purgative and emetic quality; and an extract was made from them by water, called by Quercetanus extractum purgans. Later writers have recommended them in small doses as alexipharmic and sudoritic; it is said, that in the plague at London, the powder of them was given in vinegar, or white wine, with good success. It is from the stalk of this tree that a resinous time palled Commit belower. juice, called Gummi hedera, exudes very plentifully in warm climates. It is imported from the East Indies, though it may be collected from trees in this country It is brought over in hard compact masses, externally of a reddish brown colour, internally of a bright brownish yellow, with reddish specks or veins. It has a strong, resinous, agreeable smell, and an adstringent taste. Though never used in the practice of the present day, it possesses corroborant, astringent, and antispasmodic

virtues.

HEDERA TERRESTRIS. See Glecoma.
HEDERACEÆ. (From hedera, the tvy.) The
mame of an order of plants in Linnaus's Fragments of a
Natural Method, consisting of the ivy and a few other enera which in their form and appearance resem-

Heige hyssop. See Gratiola officinalis. Holige mustard. See Erysimum officinale. Hedge mustard, stinking. See Erysimum Alliaria. He pra. 1. The anus.

2. Excrement.
3. A fracture

3. A fracture
Hedden Sames. Mint.
Heister, Laurence, was born at Frankfort on
the Maine in 1633. Afterstudying in different German
niversities, and serving sometime as an army-surgeon,
ie graduated at Leyden: and in 1709 was appointed
physician general to the Dutch Military Hospital. The
next year he became professor of anatomy and surgery
at Altorf: and having distinguished himself greatly by
his lectures and writings, he received in 1720 a more
advantageous appointment at Helmstadt, under the
Dute of Brunswick, as physician, Aulic counsellor,
and professor of medicine; in which he continued,
notwithstanding an invitation to Russia from the Czar
Peter, till the period of his death in 1758. He was author Peter, till the period of his death in 1758. He was author of several esteemed works, particularly a Compendium of Anatomy, which became very popular, being re-markable for its conciseness and clearness. "His In-stitutions of Surgery," also gained him great credit; being translated into Latin, and most of the modern languages of Europe. Another valuable practical work was entitled "Medical, Surgical, and Anatomical Cases and Observations." He had some taste for to cases and observations. The had some taste for botany also, which he taught at Helmstadt, and considerably enriched the garden there; but he unfortunately became an antagonist of the celebrated Linnaus. not properly appreciating the excellence of the system of that eminent naturalist.

HELCO'MA. Ulceration.
HELCONIA. (From chaos, an ulcer.) An ulcerin the external or internal superficies of the cornea, known by an excavation and oozing of purulent matter from the

Heley'drion. (From ελκος, an ulcer, and υδωρ, water.) Helcydrium. A moist ulcerous pustule.
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HELCY'STER. (From elkw, to draw.) An instruction ment for extracting the focus.

Hele'Nium. (From Helene, the island where it

HELENIUM. (From πheree, the island where is grew.) See Inula helenium.

HELIANTHUS. (From πhios, the sun; and ανθος, a flower. This name originated from the resemblance whech its broad golden disk and ray bear to the sun, and is rendered further appropriate by its having the and is rendered further appropriate by its naving the power of constantly presenting its flowers to that luminary.) The name of a genus of plants! Class, symgensia: Order, Polygamia frustranea. The sun-flower.

Helianthus annuvs. The systematic name of the Corona soits, and chimalatus. The seeds have been made into a nutritious bread. The whole plant when

young is boiled and eaten in some countries, as being

aphrodisiac

HELIANTHUS TUBEROSUS. Jerusalem artichoke. Although formerly in estimation for the table, this root is now neglected, it being apt to produce flatulency and dyspepsia.

ey and dyspepsia.

Helica'lis major.
See Helicis major.
Helica'lis minor.
Helica minor.
Helica minor
Helica minor tragus.

Helicis minor. A proper muscle of the ear, which contracts the fissure of the ear; it is situated below the helicis major, upon part of the helix. It arises from the inferior and anterior part of the belix, and is inserted into the crus of the helix, near the fissure in the cartilage opposite to the concha.
HELIOTROPE. A sub-sp

A sub-species of rhomboidal

quartz.

IIELICTROPIUM. (Ἡλιστροπιον τω μεγα, of Dioscorides; from ηλιος, the sun, and τροπη, a turning
or inclination: because, says that ancient writer, it turns its leaves round with the declining sun.) The
name of a genus of plants. Class, Pentandria; Order, Monogynia

Heliotro'pii succus. See Croton tinctorium. HE'LIX. (Ελιξ, from ειλω, to turn about.) The external circle or border of the outer ear, that curls in-

Helix Hortensis. The garden snail. HELLEBORA'STER. (From ελλεβορος, hellebore.)

See Helleborus fatidus.
HELLEBORE. See Helleborus.
Hellebore, black. See Helleborus niger.
Hellebore, white. See Veratrum album.

Hellebore, white. See Veratrum album.

HELLE'BORUS. (Ελλεθορος πορατοτη βορατλειν, because it destroys, if eaten.) The name of a genus of plants in the Linnæan system. Class Polyandria; Order, Polygynia. Hellebore.

Order, Polygynia. Hellebore.

ILELLEBORUS ALBUS. See Veratrum album.

ILELLEBORUS ALBUS. Stinking Hellebore, or hear'sfoot. Helleboraster. Helleborus—caule multifloro
folicos, folicis pedatis, of Linnews. The leaves of this
indigenous plant are recommended by many as possessing extraordinary anthelminic powers. The smell of
the recent plant is extremely fostid, and the taste is bitter and remarkably acrid, insomuch that, when chewed,
it excoriates the mouth and fauces. It commonly
operates as a cathartic, sometimes as an emetic, and
in large doses proves highly delegatings.

it excoriates the mouth and fauces. It commonly operates as a cathartic, sometimes as an ennetic, and in large doses proves highly deleterious.

Helledder as a cathartic, sometimes as an ennetic, and in large doses proves highly deleterious.

Helledder as a common as a

Class, Calinca; Order, Enterica, in Good's Nosology. Invermination, worms. It has three species, viz. Hel-

minthea alvi, podicis, erratica. HELMINTHI ASIS. (E) HELMINTHI ASIS. (Ελμενθεσσες; from ελμενς, which signifies any species of worm.) A disease in which worms, or the larvae of worms, are bred under the skin, or some external part of the body. It is endemial to Martinique, Westphalia, Transylvania, and

Source other places.
HELMINTHOCO'RTON. See Corallina corsicuna. HELMINTHOGO RTON. See Corallina corsicana. HELMONT, John Baptist Van, was born of a noble family at Brussels in 1577. He exhibited very early proofs of superior abilities, and soon became convinced how much hypothesis was ranked under the name of science and philosophy in books; he seems to have perceived the necessity of experiment and induction in the discovery of real knowledge; but did not reached the plan plane settlements. methodize his ideas sufficiently, to pursue that plan with its full advantage. After taking his degree at Louvain he travelled during ten years, and in this period acquired some practical knowledge of chemistry. On his return in 1609 he married a noble lady of large fortune, which enabled him to pursue his researches into the three kingdoms of nature with little interruption. He declined visiting patients, but gave gratuitous advice to those who went to consult him; and he boasts of having cured several thousands annually. He continued his investigations with astonishing diligence during thirty years, and made several discoveries in chemistry; among which were certain articles possessed of considerable activity on the human body. This continued his opposition to the Galenical school, the absurd hypotheses, and mert practice of which he attacked with great warmth and ability. Indeed he contributed greatly to overturn their influence but from a desire to explain every thing on chemical principles, he substituted doctrines equally gratuitous or unintelligible. He published various works from time to time, which brought him considerable reputa-tion, and he was repeatedly invited to Vienna; but he preferred continuing in his laboratory.

HELO'DES. (From ελος, a marsh.) A term applied to fevers generated from marsh miasma.

HELO'SIS. (From ειλω, to turn.) An eversion or

HEAUSIS. (From ελκω, to draw: so called because it sticks to whatever it touches.) Pellitory of the wall.

the wall.

HEMATIN. The colouring principle of logwood.

See Hamatoxylon campechianum.

HEMATURIA. See Hamaturia.

HEMERALOPIA. (From naspa, the day, and wy, the eye.) A defect in the sight, which consists in being able to see in the daytime, but not in the evening. The following is Scarpa's description of this curious disorder. Hemografiani, or mactural blindness, is not allowed. disorder. Hemeralopia, or nocturnal blindness, is pro-perly nothing but a kind of imperfect periodical amaurosis, most commonly sympathetic with the stomach. Its paroxysms come on towards the evening, and dis-appear in the morning. The disease is endemic in some countries, and epidemic, at certain seasons of the year, in others. At sunset, objects appear to persons affected with this complaint as it covered with an ashcoloured veil, which gradually changes into a dense cloud, which intervenes between the eyes and sur-rounding objects. Patients with hemeralopia, have the pupil, both in the day and nighttime, more dilated, the pupil, both in the day and hightime, more ofnated, and less moveable than it usually is in leathly eyes. The majority of them, however, have the pupil more or less moveable in the daytime, and always expanded and motionless at night. When brought into a rocm faintly lighted by a candle, where all the bystanders can see tolerably well, they cannot discorn at all, of in only find themselves able to distinguish light from darkness, and at moonlight their sight is still worse. At daybreak they recover their sight, which continues

perfect all the rest of the day till sunset.

["According to M. Dujardin, this term is derived from judges, the day, dawns, blind, and od, the eye; and in its right signification is therefore inferred to be dawn a conclude, or day biredness. In the same sense, Dr. Hillary and Dr. Hebenden, have employed the

"Hemeralopia then, which is of very rare occurrence, stands in opposition to the nyctalopia of the ancients, or night-blindness. Numerous modern writers, however, have used these terms in the contrary sense the day, and blindness in the night; and pyctalopia as expressing night-seeing, lowl-sight, as the French call it,) and blindness during the daytime."—Cooper's

Sur. Dic. A.]
HEMERALOPS. (From ημερα, the day, and ωψ, the eye.) One who can see but in the daytime.
HEMICERAU'NOS. (From ημεσυς, half, and κειρω, to cut: so called because it was cut half way down.)
A bandage for the back and breast.

A bandage for the back and breast.

HEMICRA'NIA. (From \(\text{rpucov}\), half, and \(\text{xpaveov}\), the head.) A pain that affects only one side of the head. It is generally nervous or hysterical, sometimes billious; and in both cases sometimes comes at a regular period, like an ague. When it is accompanied by a strong pulsation like that of a nail piercing the part,

a strong pulsation fire that of a nair piercing the part, it is denominated clavius. HEMIO PSIA. (From  $\eta\mu\nu\sigma\nu$ s, half, and  $\omega\psi$ , an eye.) A defect of vision, in which the person sees the half, but not the whole of an object. Hemipa Gia. (From  $\eta\mu\sigma\nu$ s, half, and  $\pi\alpha\gamma\nu$ s, fixed.) A fixed pain on one side of the head. See

HEMICHERAL AND A PART OF THE MICHAEL AND A

Hemlock, water. See Cicuta virosa

Hemorrhage from the lungs. See Hemoptysis. Hemorrhage from the nose. See Epistaxis. Hemorrhage from the stomach. See Hamatemesis.

Hemorrhage from the urinary organs. See Hema-

Hemorrhage from the uterus. See Menorrhagia. HEMP. See Cannabis. HEMP-AGRIMONY. See Eupatorium canniba-

Hemp, water. See Eupatorium. HENBANE. See Hyoscyamus. HE'PAR. (Hepar, atis. n. Нπар, the liver.) See

HEPAR SULPHURIS. Liver of sulphur. A sulphuret made either with potassa or soda. See Sulphuretum potassæ.

HEPATA'LGIA. (From ηπαρ, the liver, and αλγος,

pain.) Pain in the liver.

HEPATIC. (Hepaticus; from ηπαρ, the liver.)

Hepatic air. See Hydrogen sulphuretted.
HEPATIC ARTERY. Arteria hepatica. T
which nourishes the substance of the liver. The artery which nourishes the substance of the liver. It arises from the collac, where it almost touches the point of the lobulus Spigelfi. Its root is covered by the parcreus; it then turns a little forwards, and passes under the pylome to the control of the collaction. creas; it then turns a fittle forwards, and passes under the pylorus to the porta of the liver, and runs between the biliary ducts and the vena porta, where it divides into two large branches, one of which enters the right, and the other the left lobe of the liver. In this place it is enclosed atong with all the other vessels in the capsule of Glisson.

HERATIC DUCT. Ductus hepaticus. The trunk of the biliary pores. It runs from the sinus of the liver towards the duodenum, and is joined by the cystic duct, to form the ductus communis choledochus. See Biliary duct.

HEPATIC VEINS. See Vein, and Vena porta.
HEPATICA. (From map, the liver: so called because it was thought to be useful in diseases of the

liver.) See Marchantia polymorpha.

Ilepatica nobilis. See Anemone hepatica.

Ilepatica terrestris. See Marchantia poly-

HEPATIRRILE'A. (From μπαρ, the liver, and ρεω, to flow.) 1. A purging with bilious evacuations.
2. A diarrhæa, in which portions of flesh, like liver,

are voided HEPATITE. Fortid, straight, lamellar, heavy spar. A variety of lamellar baryles, containing a small quantuty of sulphur, in consequence of which, when it is heated or rubbed, it emits a fortid sulphurcous

odour.

HEPATT FIE. (From map, menuer.) Inflamma-tio hepatis. An inflammation of the liver. A genus of culien, who defines it "lebrie affection, attended with tension and pain of the right hypochondrium, often pungent, like that of a pleurisy, but more fre-quently dull, or obtuse, a pain at the clavicle and at the top of the shoulder of the right side; much uncasiness in lying down on the left side; difficulty of breathing;

Besides the causes producing other inflammations. bestues the application of cold, external injuries from contusions, blows, &c. this disease may be occasioned by certain passions of the mind, by violent exercise, by intense summer heats, by long-continued intermittent and remittent fevers, and by various solid concre-tions in the substance of the liver. In warm climates this viscus is more apt to be affected with inflammation than perhaps any other part of the body, probably from the increased secretion of bile which takes place when the blood is thrown on the internal parts, by an exposure to cold; or from the bile becoming acrid, and thereby exciting an irritation in the part. Hepatitis has generally been considered of two kinds;

one the acute, the other chronic

The acute species of hepatitis comes on with a pain in the right hypochondrium, extending up to the clawhen the ram hypotholograms, extending up to the classing upon the part, and is accompanied with a cough, oppression of breathing, and difficulty of lying on the left side; together with nausea and sickness, and often with a vomiting of bilions matter. The urine is of a deep saffron colour, and small in quantity; there is loss of appetite, great thirst, and costiveness, with a strong, hard, and frequent pulse; and when the discase has continued for some days, the skin and eyes become tinged of a deep yellow. When the inflammation is in the cellular structure or substance of the liver, it is called by some hepatitis parenchymatosa, and when the gall-bladder which is attached to this organ, is the seat of the inflammation, it has been called hepatitis cystica.

The chronic species is usually accompanied with a moibid complexion, loss of appetite and flesh, costiveness, indigestion, flatulency, pains in the stomach, a ness, inagestion, naturency, pans in the storness, a yellow ting of the skin and eyes, clay-coloured stools, high-coloured urine, depositing a red sediment and ropy mucus; an obtuse pain in the region of the liver, extending to the shoulder, and not unfrequently with a

considerable degree of asthma.

These symptoms are, however, often so mild and insignificant as to pass almost unnoticed; as large abscesses have been found in the liver upon dissection, which in the person's lifetime had created little or no inconvenience, and which we may presume to have been occasioned by some previous inflammation. Hepatitis, like other inflammations, may end in re-

solution, suppuration, gangrene, or scirrhus, but its termination in gangrene is a rare occurrence.

The disease is seldom attended with fatal consequences of an immediate nature, and is often carried off by hemorrhage from the nose, or hemorrhoidal vessels, and likewise by sweating, by a diarrhua, or by an evacuation of urine, depositing a copious sediment. In a few instances, it has been observed to cease on the appearance of erysipelas, in some external

When suppuration takes place, as it generally does, before this forms an adhesion with some neighbouring part, the pus is usually discharged by the different outlets with which this part is connected, as by congling, vomiting, purging, or by an abscess breaking outwardly; but, in some instances, the pus has been discharged that the cavity of the abdomen, where no such charged into the cavity of the abdomen, where no such

adhesion had been formed.

On dissection, the liver is often found much enlarged, and hard to the touch; its colour is more of a deep purple, than what is natural, and its membranes are more or less affected by inflammation. Dissections likewise show that adhesions to the neighbouring parts often take place, and large abscesses, containing a considerable quantity of pus, are often found in its substance.

The treatment of this disease must be distinguished, as it is of the acute, or of the chronic form. In acute hepatitis, where the symptoms run high, and the constitution will admit, we should, in the beginning, bleed 418

**HEPATITIS.** (From  $\eta\pi a \rho$ , the liver.) Inflammator freely from the arm; which it will seldom be necessary to repeat, if carried to the proper extent at firstfreely from the arm; which it will seldom be necessary to repeat, it carried to the proper extent at first; in milder cases, or where there is less power in the system, the local abstraction of blood, by cupping or leeching, may be sufficient. We should next give calonel alone, or combined with opinin, and followed up by infusion of sema with neutral salls, planp, or other cathartic, to evacuate bile, and thoroughly clear out the intestines. When, by these means, the inflammation is materially abated, we should endeavour to promote disubjoresis by suitable medicines assisted by more materiary activity we should endeavour to pro-mote diaphoresis by suitable medicines, assisted by the warm bath; a blister may be applied; and the antiphlogistic regimen is to be duly enforced. But the discharge of bile, by occasional doses of calomel, must not be neglected; and where the alvine evacuations are deficient in that secretion, it will be proper to push this, or other mercurial preparation, till the mouth is in some measure affected. In India this is the remedy chiefly relied upon, and exhibited often in much larger doses than appear advisable in more temperate climates. Should the disease proceed to suppuration, means must be used to support the strength; a nutri-tious diet, with a moderate quantity of wine, and de-coction of bark, or other tonic medicine: fomentations or poultrees will also be proper to promote the discharge externally; but when any fluctuation is perceptible, it is better, to make an examinar last it shauld host in is better to make an opening, lest it should burst in-wardly. In the chronic form of the disease, mercury is the remedy chiefly to be relied upon; but due caution must be observed in its use, especially in scrofulous subjects. It appears more effectual in restoring the healthy action of the liver, when taken internally: but if the mildest forms, though guarded by opium, or rather sedative, cannot so be borne, the omtment may be rubbed in. In the meantime, calumba, or other tonic, with antacids, and mild aperients, as rhubarb, to regulate the state of the prime vie, will be proper. Where the system will not admit the adequate use of mercury, the nitric acid is the most promising substi-tute. An occasional blister may be required to relieve unusual pain; or where this is very limited and continued, an issue, of seton may answer better. strength must be supported by a light nutritious diet; and gentle exercise with warm clothing, to maintain the perspiration steadily, is important, in the convalescent state: more especially a sea voyage in persons long resident in India has often appeared the only means of restoring perfect health.

HEPATITIS PARENCHYMATOSA. ne substance of the liver. Inflammation of

HEPATITIS PERITONÆALIS. Inflammation in the peritonaum covering the liver. HEPATOCE'LE. (From ηπαρ, the liver, and κηλη,

a tumour.) A hernia, in which a portion of the liver protrudes through the abdominal parietes.

ΗΕΡΑΤΌ RICH. The same as Eupatorium.
ΗΕΡΗΕ΄ STIAS. (From Ηφαιζος, Vulcan, or fire.)
A drying plaster of burnt tiles.

HEPI'ALUS. (From ηπιος, gentle.) A mild quoti-

HEPTA NDRIA. (From επτα, seven, and ανηρ, a man, or husband.) The name of a class in the sexual system of plants, consisting of such hermaphrodite flowers as have seven stamens.

Heptapha'rmacum. (From  $\varepsilon\pi/a$ , seven, and  $\phi a \rho \mu a$ , medicine.) A medicine composed of seven in gredients, the principal of which were cerusse, lithange,

HEPTAPHY'LLUM. (From επ/a, seven, and φελλον, a leaf: so named because it consists of seven leaves.) See Tormentilla erecta.

HEPTAPLE URUM. (From επ]a, seven, and πλευρα, a rib: so named from its having seven ribs upon the leaf.) The herb plantain. See Plantago major. HERA CLEA. 1. Water hoarhound.
2. The common wild marjoram received a trivial

name from its growing in abundance in Heraclea. See

HERA CLEUM. (From Heraclea, the city near which it grows; or from Hoakhy, Heracles, being the plant saved to him.) The name of a genus of plants in the Linngan system. Class, Pentandria; Order,

HERACLEUM GUMMIFERUM. This species is supposed by Wildenow to afford the gum ammoniacum. This species is sup-Sec Ammania

HERACLEUM SPONDYLIUM. Branca ursina Germa-

nica: Spondylium. Cow-parsnip. All-heal. Heratleum jotedies pinnatifidies, lævibus, floribus uniformibus of Linnæus. The plant which is directed by the name of *Branca ursina* in foreign pharmacopæias. In Siberia it grows extremely high, and appears to have virtues in the cure of dysentery which the plants of

this country do not possess.

"The Heracleum Lanatum is one of our largest native umbellate plants, growing frequently to the height of a man, with a stalk more than an inch in thickness. Its taste is strong and aerid. The bruised root or leaves, externally applied, excite rubefaction. Internally used, this article has been recommended in epilepsy. It appears to me to possess a virose character, and should be used with caution, especially when gathered from a watery or damp situation.' Mat. Med. A.] HERB-BENNET

HERB-BENNET. See Grum urbanum.
HERB-OF-GRACE. See Gratiola.
HERB-MASTICH. See Thymus mastichina. Herb trinity. See Anomone hepatica.

HERBA. An herb. A plant is properly so called which bears its flower and fruit once only, and then with its root wholly perishes. There are two kinds: annuals, which perish the same year; and biennials, which have their leaves the first year, and their flowers and fruit the second, and then die away

By the term herba, Linnaus denominates that portion of every vegetable which arises from the root,

and is terminated by the fructification.

nd is terminated by the fructineation.
HERBA BRITANNICA. See Rumer hydrolapathum.
HERBA MILITARIS. See Achillwa mullefolium.
HERBA SACRA. See Verbena trifoliata.
HERBA TRINIFATIS. See Alemone kepatica.
HERBACEUS. Herbaceous. Plants are so con-

sidered which have succulent stems or stalks, and die down to the root every year.

HERBARIUM. A collection of dried or preserved

plants; called also Hortus siccus.

See Laserpitium HERCULES'S ALL-HEAL.

chironium.

HERCULES BOVII. Gold and mercury dissolved in a distillation of copperas, nitre, and sea-salt. HERE/DITARY. (From heres, an hier.) A disease, or predisposition to a disease, which is transferred from

parents to their children.

HERMA PHRODITE. (Hermaphroditus; from Ερμης, Mercury, and Αφροδί 7η, Venus, i. e. partaking of both sexes.) 1. The true hermaphrodite of the anof both sexes.) 1. The true hermaphrodite of the ancients was, the man with male organs of generation creus was, the man with man organ or generation, and the female stature of body, that is, narrow chest and large pelvis; or the woman with female organs of generation, and the male stature of body, that is, broad chest and narrow pelvis. The term is now, however, used to express any lasus natures wherein the parts of generation appear to be a mixture of both

2. In botany, an hermaphrodite flower is one which contains both the male and female organs, for the production of the fruit, within the same calyx and

petals.

HERME'TIC. (From Έρμης, Mercury.) In the language of the ancient chemists, Hermes was the father of chemistry, and the hermetic seal was the closing the end of a glass vessel while in a state of

closing the end of a glass vessel while in a state of fusion, according to the usage of chemists.

HERMODA(TYLUS. See Hermodatellus.

HERMODA CTYLUS. (Eguodat)vlas. Etymologists have always derived this word from Epuns, Mercury, and čak/plos, a finger. It is, however, probably named from Hermans, a river in Asia, upon whose banks it grows, and dax/plos, a date, which it is like.) Anima articularum. The root of a species of colchicum, not yet ascertained, but supposed to be the Colchicum illgricum of Linnens, of the shape of a heart, flattened on one side, with a furrow on the other, of a white colour, compact and solid, yet egasy to cut of a white colour, compact and solid, yet easy to cut This root, which has a viscous, sweetish, or powder. farmaceous taste, and no remarkable smell, is import-ed from Turkey. Its use is totally laid aside in the practice of the present day. Formerly the roots were practice of the present day. Formerly the roots were esteemed as catharties, which power is wanting in those that reach this country.

THE RNIA. (From Epros, a branch; from its protruding out of its place.) A rupture. Surgeons understand, by the term hernia, a tumour formed by the protrusion of some of the viscera of the abdomen out

of that cavity into a kind of sac, composed of the portion of peritoneum, which is pushed before them. However, there are certainly some cases which will not be comprehended in this definition; either because the parts are not protruded at all, or have no hernial The places in which these swellings most frequently make their appearance, are the groin, the navel, the labia pudendi, and the upper and forepart of the thigh; they do also occur at every point of the anterior part of the abdomen; and there are several less com-mon instances, in which hernial tumours present themselves at the foramen ovale, in the perinaum, in the vagina, at the ischiatic notch, &c. The parts which, vagina, at the isemant notice, see. The parts which, by being thrust forth from the cavity, in which they ought naturally to remain, mostly produce hernie, are either a portion of the omentum, or a part of the intestinal canal, or both together. But the stomach, the liver, the spleen, uterus, ovaries, bladder, &c. have been known to form the contents of some hernial tu-mours. From these two circumstances of situations and contents, are derived all the different appellations by which herniæ are distinguished. If a portion of by which hermie are distinguished. If a portion of intestine only forms the contents of the tumour, it is called enterocele; if a piece of omentum only, epiplocele; and if both intestine and omentum contribute to the formation of a tumour, it is called entero-epiplo-cele. When the contents of a hernia are protruded at cele. When the contents of a hernia are protruded at the abdominal ring, but only pass as low as the groin, or labium pudendi, the case receives the name of bubonocele, or inguinal hernia; when the parts descend into the scrottm, it is called an oschoocele or scrotal hernia. The crural, or femoral hernia, is the name given to that which takes place below Foupart's ligament. When the bowels protrude at the navel, the case is named an exomphalos, or umbitical hernial and ventral is the epithet given to the swelling, when it occurs at any other promiscuous part of the front of the abdomen. The congenital rupture is a very parti-cular case, in which the protruded viscera are not covered with a common hernial sac of peritoneum, but are lodged in the cavity of the tunica vaginalis, in contact with the testicle; and, as must be obvious, it is not named, like hernia in general, from its situation, or contents, but from the circumstances of its existing from the time of birth.

from the time of birth.

When the hernial contents lie quietly in the sac, and admit of being readily put back into the abdomen, it is termed a reducible hernia: and when they suffer no constriction, yet cannot be put back, owing tier no constriction, yet cannot be put back, owing to adhesions, or their large size in relation to the aperture, through which they have to pass, the hernia is termed irreducible. An incarcerated, or strangulated hernia, signifies one which not only cannot be reduced, but suffers constriction: so that, if a piece of intestine be protruded, the pressure to which it is subjected stops the passage of its contents onward towards the anus, makes the bowel inflame, and brings on a train of most alarming and often fatal consequences.

The general symptoms of a hernia, which is reductive.

The general symptoms of a hernia, which is reduci-The general symptoms of a herma, which is reduct-ble and free from strangulation, are—an indolent un-mour at some point of the parietes of the abdominal most frequently descending out of the abdominal ring, or from just below Poupar's ligament, or else out of the navel; but occasionally from various other situa-tions. The swelling mostly originates suddenly, ex-cept in the circumstances above related; and it is sub-ject to a change of size, being smaller when the patient files down upon his back, and larger when he stands lies down upon his back, and larger when he stands up, or draws in his breath. The tumour frequently diminishes when pressed, and grows large again when the pressure is removed. Its size and tension often increase after a meal, or when the patient is flatulent. Patients with hernia, are apt to be troubled with colic, constipation, and vomiting in consequence of the unnatural situation of the bowels. Very often, however, the functions of the viscera seem to suffer little or no

interruption.

If the case be an enterocele, and the portion of the intestine be small, the tumour is small in proportion; but though small, yet, if the gut be distended with wind, inflamed, or have any degree of stricture made on it, it will be tense, resist the impression of the finger, and give pain upon being handled. On the contrary, and give pain upon being handled. On the contrary, if there be no stricture, and the intestine suffers no degree of inflammation, let the prolapsed piece be of what length it may, and the tumour of whatever size, yet the tension will be little, and no pain will attend

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feel as if it was blown into; and, in general, it will be found very easily returnable. A guggling noise is often made when the bowel is ascending.

If the hernia be an epiplocele, or one of the omental kind, the tumour has a more flabby and a more unequal feel; it is in general perfectly indolent, is more compressible, and (if in the scrotum) is more oblong and less round than the swelling occasioned in the same situation by an intestinal hernia; and, if the quantity be large, and the patient an adult, it is, in one measure, distinguishable by its greater weight. If the case be an entero-opiplocele, that is, one consisting of both intestine and omentum, the character-

istic marks will be less clear than in either of the simple cases; but the discase may easily be distinguished from every other one, by any body in the habit of

making the examination.

HERNIA CEREBRI. Fungus cerebri. This name is given to a tumour which every now and then rises from the brain, through an ulcerated opening in the dura mater, and protrudes through a perforation the cranium, made by the previous application of the

trephine

HERNIA CONGENITA. (So called because it is, as it were, born with the person.) This species of hernia consists in the adhesion of a protruded portion of intestine or omentum to the testicle, after its descent into the scrotum. This adhesion takes place while the testicle is yet in the abdomen. Upon its leaving the abdomen, it draws the adhering intestine, or omentum, along with it into the scrotum, where it forms the

hernia congenita.

From the term congenital, we might suppose that this hernia always existed at the time of birth. The protrusion, however, seldom occurs till after this pe riod, on the operation of the usual exciting causes of hernia in general. The congenital hernia does not usually happen till some months after bigth; in some instances not till a late period. Hey relates a case, in which a hernia congenta was first formed in a young man, aged sixteen, whose right testis had, a little while before the attack of the disease, descended into the scrotum. It seems probable that, in cases of hernia congenita, which actually take place when the testicle descends into the scrotum before birth, the event may commonly be referred, as observed above, to the testi-cle having contracted an adhesion to a piece of intes-tine, or of the omentum, in its passage to the ring. Wrisberg found one testicle which had not passed the ring, adhering, by means of a few slender filaments, to the omentum, just above this aperture, in an infant that died a few days after birth.

Excepting the impossibility of feeling the testicle in hernia congenita, as we can in most cases of bubonocele, (which criterion Mr. Samuel Cooper, in his Sur-gical Dictionary, observes Mr. Pott should have mentioned,) the following account is very excellent. "The appearance of a hernia, in very early infancy, will always make it probable that it is of this kind; but in an adult, there is no reason for supposing his rupture to be of this sort, but his having been afflicted with it from his infancy; there is no external mark, or cha-racter, whereby it can be certainly distinguished from the one contained in a common hemial sac; neither would it be of any material use in practice, if there

HERNIA CRURALIS. Femoral hernia. The parts composing this kind of hernia are always protruded under Poupart's ligament, and the swelling is situated towards the inner part of the bend of the thigh. The rupture descends on the side of the femoral artery and vein, between these vessels and the os pubis. Fe-males are particularly subject to this kind of rupture in consequence of the great breadth of their pelvis, while in them the inguinal hernia is rare. It has been computed, that nineteen out of twenty married women, afflicted with hernia, have this kind; but that not one out of a hundred unmarried females, or out of the same number of men, have this form of the disease. The situation of the tumour makes it liable to be mistaken for an enlarged inguinal gland; and many fatal events are recorded to have happened from the sur-geon's ignorance of the existence of the disease. A gland can only become enlarged by the gradual effects of inflammation; the swelling of a crural herma comes

the handling of it; upon the patient's coughing, it will | strangulated, occasions the train of symptoms described in the account of the hernia incarcerata, which symptoms an enlarged gland could never occasion. circumstances seem to be sufficiently discriminative: though the feel of the two kinds of swelling is often not in itself enough to make the surgeon decided in his opinion. A femoral hernia may be nistaken for a bubonocele, when the expanded part of the swelling lies over Poupart's ligament. As the taxis and opera-tion for the first case ought to be done differently from tion for the first case ought to be done differently from those for the latter, the error may lead to very had consequences. The femoral hernia, however, may always be discriminated, by the neck of the tumour having Poupart's ligament above it. In the bubonocele, the augle of the pubes is behind and below this part of the sac: but in the femoral hernia, it is on the same long-next loved, different flexible for the sac:

Until very lately, the stricture, in cases of femoral hernia, was always supposed to be produced by the lower border of the external oblique muscle, or as it is termed, Poupart's ligament. A total change of surgical opinion on this subject has, however, latterly taken place, in consequence of the accurate observations first place, in consequence of the accurate observations first made in 1768, by Gimbernat, surgeon to the king of Spain. In the crural hernia, (says he,) the aperture through which the parts issue is not formed by two bands, (as in the inguinal hernia,) but it is a foramen, almost round, proceeding from the internal margin of the crural arch, (Poupart's ligament,) near its insertion into the branch of the os pubis, between the bone and the fliac vein, so that, in this hernia, the branch of the os pubis is situated more internally than the intestine, and a little behind; the vein externally, and behind; and the internal border of the arch hefore. Now it is this border which always forms the strangulation this border which always forms the strangulation.

HERNIA FLATULENTA. A swelling of the side, caused by air that has escaped through the pleura: an obsolete term.

HERNIA GUTTURIS. Bronchocele, or tumour of the bronchial gland.

HERNIA HUMORALIS. See Orchitis.

HERNIA INCARCERATA. Incarcerated hernia. Strangulated hernia, or a hernia with stricture. The symp-The symptoms are a swelling in the groin, &c. resisting the impression of the fingers. If the hernia be of the intestinal kind, it is generally painful to the touch, and the pain is increased by coughing, sneezing, or standing upright. These are the very first symptoms, and, if they are not relieved, are soon followed by others; viz. a sickness at the stomach, a frequent retching, or inclination to vomit, a stoppage of all discharge per anum, attended with frequent hard pulse, and some degree of fever. These are the first symptoms; and if they are not appeased by the return of the intestine, that is, if the attempts made for this purpose do not succeed, the sickness becomes more troublesome, the vointing more frequent, the pain more intense, the tension of the belly greater, the fever higher, and a general restlessness comes on, which is very terrible general restlessness comes on, which is very terrible to bear. When this is the state of the patient, no time is to be lost; a very little delay is now of the utmost consequence; and if the one single remedy, which the disease is now capable of, be not administered immediately, it will generally baffle every other attempt. This remedy is the operation whereby the parts engaged in the stricture may be set free. If this be not now needing the design of the stricture may be set free. this be not now performed, the vomiting is soon exchanged for a convulsive hiccup, and a frequent gulping up of bilious matter: the tension of the belly, the restlessness and fever, having been considerably in creased for a few hours, the patient suddenly becomes perfectly easy, the belly subsides, the paties, from having been hard, full, and frequent, becomes low, languid, and generally interrupted; and the skin, espereally that of the limbs, cold and moist; the eyes have now a languor and glassiness, a lack lustre not easy to be described: the tumour of the part disappears, and the skin covering it sometimes changes its natural colour for a livid hue; but whether it keeps or loses its colour, it has an emphysematous feel, a crepitus to the touch, which will easily be conceived by all who have attended to it, but is not easy to convey an idea of by words. This crepitus is the too sure indicator of by Wards. I his despine is the role side that of gangeronis mischief within. In this state, the gut either goes up spontaneously or is returned with the smallest degree of pressure; a discharge is made on in a momentary and sudden manner; and, when by stool, and the patient is generally much pleased at

the ease he finds; but this pleasure is of short duration, for the hiccup and the cold sweats continuing and increasing, with the addition of spasmodic rigours

and subtultus tendinum, the tragedy soon finishes.

HERNIA INGUINALIS. Bubonoccle. Inguinal hernia. Herria inguinalises. Bubonocele. Inguinal neumar. The herria in guinalise is so called because it appears in both sexes at the groin. It is one of the divisions of hernia, and includes all those hernie in which the parts displaced pass out of the abdomen through the ring, that is, the arch formed by the aponeurosis of the musculus obliquus externus in the groin, for the passage of the spermatic vessels in men, and the round ligament in women. The parts displaced that form the hernia, the part into which they fall, the manner of the hernia being produced, and the time it has continued, occasion great differences in this disorder. There are three different parts that may produce a There are three different parts that may produce a hernia in the groin, viz., one or nuore of the intestines, the epiploon, and the bladder. That which is formed by one or more of the intestines, was called, by the ancients, enterocele. The intestine which most frequently produces the hernia, is the ilium: because, being placed in the iliac region, it is nearer the groin than the rest: but notwithstanding the situation of the other intestines, which seems not to allow of their coming near the groin we often find the isjumm and coming near the groin, we often find the jejunum, and frequently also a portion of the colon and carcum, included in the hernia. It must be remembered, that the enuced in the herma. It must be remembered, that the mesentery and mesocoolon are membranous substances, capable of extension, which, by little and little, are sometimes so far stretched by the weight of the intestines, as to escape with the ilium, in this species of hernia. The herma made by the epiploon, is called "piploade, as that caused by the epiploon and any of the intestines together, is called othern epiploade." The hernia of the bladder is called crytocele. the bladder is uncommon, and has seldom been known to happen but in conjunction with some of the other viscera. When the parts, having passed through the abdominal rings, descend no lower than the groin, it is called an incomplete hernia; when they fall into the scrotum in men, or into the labia pudendi in women, it is then termed complete.

The marks of discrimination between some other

diseases and inguinal hernia are these

The disorders in which a mistake may possibly be made, are the circocele, bubo, bydrocele, and hernia humoralis, or inflamed testicle.

For an account of the manner of distinguishing cir-

cocele from a bubonocele, see Circocele.

The circumscribed incompressible hardness, the situ-

The circumscribed micrompressible nartunes, the studion of the tumour, and its being free from all connexion with the spermatic process, will sufficiently point out its being a bubo, at least while it is in a recent state; and when it is in any degree supputated, he must have a very small share of the tactus enables who cannot feel the difference between matter, and

either a piece of intestine or omentum.

The perfect equality of the whole tumour, and free-dom and smallness of the spermatic process above it, om and smallness of the spermatic process above it, the power of feeling the spermatic vessels, and the vas deferens in that process; its being void of pain upon being handled, the fluctuation of the water, the gra-dual formation of the swelling, its having begun below and proceeded upwards, its not being affected by any posture or action of the patient, nor increased by his coughing or sneezing, together with the absolute im-possibility of feeling the testicle at the bottom of the scrotum, will always, to an intelligent person, prove the disease to be hydrocele.

Pott, however, allows that there are some exceptions in which the testicle cannot be felt at the bottom of the scrotum, in cases of hernia. In recent bubonoceles, while the hernial sac is thin, has not been long, or very much distended, and the scrotum still preserves a regularity of figure, the testicle may almost always be easily felt at the inferior and posterior part of the tumour. But in old ruptures, which have been long, down, in which the quantity of contents is large, the sac considerably thickened, and the scrotum of an irregular figure, the testicle frequently cannot be felt; neither is it in general easily felt in the congenital hernia, for obvious reasons.

In the hernia humoralis, the pain in the testicle, its enlargement, the hardened state of the epididymus, and the exemption of the spermatic cord from all unnatural fulness, are such marks as cannot easily be

mistaken; not to mention the generally preceding go-norrhœa. But if any doubt still remains of the true nature of the disease, the progress of it from above downwards, its different state and size in different postures, particularly lying and standing, together with its descent and ascent, will, if duly attended to, put it out of all doubt that the tumour is a true kernia.

When an inguinal hernia does not descend through the abdominal ring, but only into the canal for the spermatic cord, it is covered by the aponeurosis of the external oblique muscle, and the swelling is small and

undefined.

Now and then, the testicle does not descend into the scrotum till a late period. The first appearance of this body at the ring, in order to get into its natural situation, might be mistaken for that of a hernia, were the surgeon not to pay attention to the absence of the testicle from the scrotum, and the peculiar sensation

occasioned by pressing the swelling.

Hernia intestinalis. A rupture caused by the protrusion of a portion of the intestine. See Hernia

inguinalis.

HERNIA ISCHIATICA. A rupture at the ischiatic notch. This is very rare. A case, however, which was strangulated, and undiscovered till after death, is related in Sir A. Cooper's second part of his work on hernia. The disease happened in a young man aged 27. On opening the abdomen, the lilum was found to have descended on the right side of the rectum into the pelvis; and a fold of it was protuded into a small sac, which passed out of the pelvis at the ischiatic The intestine was adherent to the sac at two points; the strangulated part, and about three inches on each side, were very black. The intestines towards the stomach, were very much distended with air, and here and there had a livid spot on them. A dark spot nere and there had a liver spot on them. A dark spot was even found on the stomach itself, just above the pylorus. The colon was exceedingly contracted, as far as its signood flequire. A small orifice was found in the side of the pelvis, in front of, but a little above the sciatic nerve, and on the forepart of the pyriformis muscle. The sac lay under the glutrus maximus muscle, and its orifice was before the internal iliac

artery, below the obturator artery, but above the vein.
HERNIA LACHRYMALIS. When the tears passthrough
the puncta lachrymalia, but stagnate in the succulus lachrymalis, the tumour is styled hernia lachrymalis with little propriety or precision. It is with equal impropriety called, by Anel, a dropsy of the tackrymal sac. If the inner angle of the eye is pressed, and an aqueous humour flows out, the disease is the fistula

lachrumalis.

HERNIA MESENTERICA. Mesenteric hernia. If one of the layers of the mesentery be torn by a blow, while the other remains in its natural state, the intestines may insinuate themselves into the aperture and form may insinuate themselves into the aperture and form a kind of hernia. The same consequences may result from a natural deficiency in one of these layers. Sir A. Cooper relates a case, in which all the small intestines, except the duodenum, were thus circumstanced. The symptoms during life were unknown.

Hernia Mesocolica. Mesocolic hernia. So named by Sir A. Cooper, when the bowels glide between the layers of the mesocolon. Every surgeon should be aware that the intestines may be strangulated from the

aware that the intestines may be strangulated from the aware that the intestines may be strangulated from the following causes: 1. Apertures in the omentum, mesentery, or mesocolon, through which the intestine protrudes. 2. Adhesions, leaving an aperture, in which a piece of intestine becomes confined. 3. Membranous bands at the mouth of hernial sacs, which becoming elongated by the frequent protrusion and return of the viscera, surround the intestine, so as to strangulate them within the abdomen when returned from

HERNIA OMENTALIS. Epiplocele. A rupture of the omentum; or a protrusion of the omentum through A rupture of the omestum; or a produsion of the omenum unfolgen apertures in the integuments of the belly. Sometimes, according to Sharpe, so large a quantity of the omen-tum hath fallen into the scrottum, that its weight, draw-ing the stomach and bowels downwards, hath excited vomiting, inflammation, and symptoms similar to those of the incarcerated hernia.

those of the incarcerated nerma. Herma Fernmants Permeally. Perineal herma. In men, the parts protrude between the bladder and rectum; in parts protruges the rectum and vagina. The herma does not project so as to form an external tumour; and, in men, its existence can only be distinguished by ex-

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HERNIA PHRENICA. Phrenic hernia. HERNIA PHRENICA. Phrenic hernia. The abdomi-nal viscera are occasionally protruded through the diaphragm, either through some of the natural aper-tures in this nuscle, or deficiencies, or wounds, and lacerations in it. The second kind of case is the most frequent. Morgagni furnishes an instance of the first. Two cases related by Dr. Macauley, and two others published by Sir A. Cooper, are instances of the second sort. And another case has been lately recorded by the latter gentleman, affording an example of the third kind. Hildams, Pare, Petit, Schenck, &c. also mention cases of phrenic hernia.

HERNIA PUDENDALIS. Pudendal hernia. This is the name assigned by Sir A. Cooper, to that which descends between the vagina and ranns is chii, and forms an oblong tumour in the labium, traceable within the pelvis, as far as the os uteri. Sir A. C. thinks this case has sometimes been mistaken for a hernia of the

foramen ovale.

HERNIA SCROTALIS. Hernia Oscheolis. Oscheocle. Paracelsus calls it Crepatura. When the omentum, the intestine, or both, descend into the scrotum, it has these appellations; when the omentum only, it is called these appellations; when the omentum only, it is called epiploscheocele. It is styled a perfect rupure in contradistinction to a bubonocele, which is the same disorder; but the descent is not so great. The hernia Berotalis is distinguished into the true and false; in the former, the omentum or intestine, or both, fall into the Berotum; in the latter, we inflammation, or a fluid, causes a tumour in this part, as in hernia humoralis, or hydrocele. Sometimes sebaceous matter is collected in the secretary and this herria, called extended. in the scrotum; and this hernia is called steatocele.

HERNIA THYROIDEALIS. Hernia foraminis ovalis. Thyroideal hernia. In the anterior and upper part of the obturator ligament there is an opening, through which the obturator artery, vein, and nerve proceed, and through which occasionally a piece of omentum or intestine is protruded, covered with a part of the peritonacum, which constitutes the hermial sac.

HERMIA UMBILICALIS. Epiploomphalion; Ompha-locele; Exomphalos; Omphalos; and when owing to flatulency, Pneumatomphalos. The exomphalos, or umbilical rupture, is so called from its situation, and has, like other herniæ, for its general contents, a por has, like other hernias, for its general contents, a por-tion of intestine, or omentum, or both. In old umbi-lical ruptures, the quantity of omentum is sometimes very great. Mr. Ranby says, that he found two ells and a half of intestine in one of these, with about a third part of the stomach, all adhering together. Gay and Nourse found the liver in the sac of an umbilical hernia; and Bohnius says that he did also. But whatever are the contents, they are originally contained in the sac,

formed by the protrusion of the peritoneum.

In recent and small ruptures, this sac is very visible; but in old and large ones, it is broken through at the knot of the navel, by the pressure and weight of the contents, and is not always to be distinguished; which is the reason why it has by some been doubted whether

is the reason why it has by some been doubted whether this kind of rupture has a hernial sac or not. Infants are very subject to this disease, in a small degree, from the separation of the funicules; but in general they either get rid of it as they gather strength, or are easily cured by wearing a proper bandage. It is of still more consequence to get this disorder cured in females, than in males; that its return, when they are become adult and presmant, may be prevented as much as possible; for at this thue it often happens, from the too great distention of the belly, or from unguarded motion when the parts are upoli the stretch.

Dr. Hamilton has met with about two cases annually for the space of seventeen years, of urabilical hernia, which strictly deserve the name of congenical umbilical inernia. The funis ends in a sort of bag, containing some of the viscera, which pass out of the abdonuen

some of the viscera, which pass out of the abdomen through an aperture in the situation of the navel. The swelling is not covered with skin, so that the contents of the hernia can be seen through the then distended covering of the cord. The disease is owing to a preternatural deficiency in the abdominal muscles, and the hope of cure must be regulated by the size of the malformation and quantity of viscera protruded.

HERNIA UTERI. Hysterocele. Instances have occurred of the uterus being thrust through the rings of the muscles; but this is scarcely to be discovered, unless in a pregnant state, when the strugglings of a child casions, when the matter has probably been more acrid,

amining in the rectum. In women, it may be detected both from this part and the vagina.

In that state, however, it could searcely ever occur. It is the cereus

HERNIA VAGINALIS. Elytrocele, Vaginal hernia, A HERNAYAGINALIS. Editroctic. Vaginal nebula. As tumour occurs within the os externini of the vagina. It is elastic, but not painful. When compressed, it readily recedes, but is reproduced by coughing, or even without this, when the pursuare is removed. The inconveniences produced are an inability to undergo much conveniences produced are an inability to discrete freezers or exertion; for every effort of this sort brings on a sense of bearing down. The vaginal bernia protudes in the space left between the uterus and rectum. This space is bounded below by the peritoneum, which membrane is forced downwards, towards the peringon; but being unable to protrude further in that direction, is pushed towards the back part of the vagina. These cases probably are always intestinal. Some herme protrude at the anterior part of the vagina.

HERNIA VARICOSA. See Creecele. HERNIA VENTOSA. See Pneumatocele.

The ventral Hypogastrocele. HERNIA VENTRALIS. hernia may appear at almost any point of the anterior part of the belly, but is most frequently found between the recti muscles. The portion of intestine, &c. &c. is always contained in a sac made by the protrusion of the Sir A. Cooper imputes its causes to the peritonaum. pertoneum. Sir A. Cooper imputes us causes to the didatation of the natural foramina, for the transmission of vessels, to congenital deficiencies, lacerations, and wounds of the abdominal muscles, or their tendons In small ventral hernia, a second fascia is found be neath the superficial one: but in large ones the latter is the only one covering the sac.

HERNIA VENTRICULA. Gustrocele. A ventral rup-ture caused by the stomach protruding through some part of the abdominal parietes. It rarely occurs, but it

does it generally at or near the navel.

HERNIA VESICALIS. Hernia cystica; Cystocele. The urinary bladder is liable to be thrust forth, from us The urmary brancer's hance to be trusts norm, room proper situation, either through the openings in the oblique muscle, like the inguinal heruia, or under Popart's ligament, in the same manner as the femoral. This is not a very frequent species of hermia, but does happen, and has as plain and determined a character correction.

HERNIA'RIA. (From hernia, a rupture: so called from its supposed efficacy in curing ruptures.) The name of a genus of plants in the Linnacan system.

name of a genus of plants in the Linnaum system. Class, Pentandria; Order, Diggnia. Rupture-wort. Hernia glanka. The systematic name of the rupture-wort. Herniaria. This plant, though formerly exteemed as efficacions in the cure of bernias, appears to be destitute, not only of such virtues, but of any other. It has no smed nor taste.

HERNIO TOMY. (Herniotomia; from hernia, and

HERNIO TOMY. (Hernotomia; from herma, and τεμνα, to cut.) The operation to remove the strangulated part in cases of incarcerated herniæ.

HERPES. From έρπω, to everep: because it creeps and spreads about the skin.) Tetter. A genus of disease in the class Locales, and order Dialyses of Culten, distributions. distinguished by an assemblage of numerous little creeping ulcers, in clusters, itching very much, and difficult to heal, but terminating in furfuraceous scales. Bell, in his Treatise on Ulcers, arranges the herpes among the cutameous ulcers, and says, that all the varieties of importance may be comprehended in the

four following species

1. Herpes farmosus, or what may be termed the dry tetter, is the most simple of all the species. It appears indiscriminately in different parts of the body, but most commonly on the face, neck, arms and wrists, in pretty broad spots and small pimples. These are generally very itchy, though not otherwise troublesome; and, after continuing a certain time, they at last fall off in the form of a white powder, similar to fine bran, leav-ing the skin below perfectly sound; and again return-ing in the form of a red efflorescence, they fall off, and are renewed as before.

2. Herps pustulesus. This species appears in the form of pustules which originally are separate and distinct, but which afterward un tegether in clusters. At first, they seemed to contain nothing but a thin wa-This species appears in the tery serum, which afterward turns yellow, and, exuding over the whole surface of the part affected, it at last dries into a thick crust, or scab; when this falls off, the skin below frequently appears entire, with only a slightdegree of reduess on its surface; but on some or

upon the scab falling off, the skin is found slightly ex- | and in 1762 he became associated with Dr. Hunter in

upon the scale rating oil, the skin is found signify ex-coriated. Eruptionsof this kind rappear most frequently on the face, behind the cars, and on other parts of the head; and they occur most commonly in children. 3. Herpes multares. The miliary tetter. This breaks out indiscriminately over the whole body; but more frequently about the loins, breast, perinaum, scrotum, and inguina, than in other parts. It generally appears in clusiers, though sometimes in distinct rings, or circles, of very minute pimples, the resemblance of which to the millet-seed has given rise to the denomination of the species. The pimples are at first, though small, perfectly separate, and contain nothing but a clear lymph, which, in the course of this disease, is excreted upon the surface, and there forms into small distinct scales; these, at last, fall off, and leave a considerable degree of inflammation below, and still continues to exide fresh matter, which likewise forms into cakes, and so falls off as before. The itching, in this species of complaint, is always very troublesome; and the or companit, is aways very nonnesone; and the matter discharged from the pimples is so tough and viscid, that every thing applied to the part adheres, so as to occasion much trouble and uneasiness on its being removed.

4. Herpes exedens, the eating and corroding tetter (so called from its destroying or corroding the parts which it attacks,) appears commonly, at first, in the form of several small painful ulcerations, all collected into larger spots, of different sizes and of various figures, with always more or less of an erysipelatous inflamma-These ulcers discharge large quantities of a thin. sharp, serous matter, which sometimes forms into small crusts, that in a short time fall off; but most frequently the discharge is so thin and acrid as to spread along the neighbouring parts, where it soon produces the same kind of sores. Though these ulcers do not, in general. proceed farther than the cutis vera, yet sometimes the discharge is so very penetrating and corrosive as to destroy the skin, cellular substance, and, on some occasions, even the muscles themselves. It is this species that should be termed the depascent, or phagedenic uleer, from the great destruction of parts which it frequently occasions. See Phagedana.

Heres ambulativa. A species of erysipelas which moves from one part to another.

Heres depastens. The same as herpes exedens.

See Herpes HERPES ESTHIOMENOS. Herpes destroying the skin by ulceration.

HERPES FARINOSUS. See Herpes.

HERPES FERUS. An erysipelas. HERPES INDICA. A fiery, itchy herpes, peculiar to

HERPES MILIARIS. See Herpes. HERPES PERISCELIS. The shingles. See Erysipe-HERPES PERSONAL SEE Herpes.
HERVES PUSTULOSUS. See Herpes.
PREMO. The ring-worm.

HERPES SERPIGO. The ring-worm. HERPES SICCUS. The dry, mealy tetter.

Shingles encircling the body. HERPES ZOSTER.

Relating to Herpes. HERPETIC.

(From έσπεω, to creep.) HE RPETON. A creeping

HESPERIDEÆ. (From Hesperides, whose or-chards, according to the poets, produced golden ap-ples.) Golden or precious fruit. The name of an order of plants in Linnaus's Fragments of a Natural Method, consisting of plants which have rigid ever-green leaves; odorous and polyandrous flowers; as the myrtle, clove, &c.

["The Heuchera Cortusa of Michaux, is a native

plant, growing in woods, from New-England to Carolina. The root is one of the strongest vegetable astrugents. As such, it has been employed in various complaints, to which astringents are adapted, and favourable reports are made of its operation. Hitherto

favourable reports are made of its operation. Hitherto it has been more known as an external application than as an internal remedy."—Rig. Mat. Med. A.]
HEWSON, WILLIAM, was born at Hexham, in 1739. After servings an apprenticeship to his father, he came to London at the age of twenty, and resided with Mr. John Hunter, attending also the lectures of Dr. Hunter. His assiduity and skill were so conspicuous, that he was appointed to superintend the dissecting room, when the former went abroad with the army in 1760. He then studied a year at Edinburgh,

and to 1762 he became associated with Dr. Huther in delivering the anatomical fectures, and he was afterward allowed an apartment in Windmill-street. Here he pursued his anatomical investigations, and his experimental inquiries into the properties of the blood, of which he published an account in 1771. He also communicated to the Royal Society several papers concerning the lymphatic system in birds and fishes, for which he received the Copleyan medal, and was soon after elected a fellow of thus, body. He began a soon after elected a fellow of that body. He began a course of lectures alone in 1772, having quitted Dr. Hunter two years before, and soon became very popular. In 1774, he published his work on the Lymphatic System. But not long after, his life was terminated by a fever, occasioned by a wound received in dissecting a morbid body, in the thirty-fifth year of his

HEXAGY'NIA. (From & six, and youn, a woman or wife.) The name of an order of plants in the sexual system, which, besides the classic character, have

six females or pisilis.

HEXANDIRIA. (From E. six, and 22790, a man, or husband.) The name of a class of plants in the sexual system, consisting of plants with hermaphrodite flowers that are furnished with six stamens of an equal

HEXAPHA'RMACUM. (From έξ, six, and φαρμακον, a medicine.) Any medicine in the composition of

which are six ingredients

HIBE'RNICUS LAPIS. See Lapis hibernicus.

HIBI SCUS. (From fgs, a stork, who is said to 'chew it, and inject it as a clyster.) The name of a genus of plants in the Linnaan system. Class, Monadelphia; Order, Polyandria.

The systematic name of HIBISCUS ABELMOSCHUS. the plant, the seeds of which are called musk-seed;
Abelmoschus; Granum moschi; Moschus Arabum; Abelmoschus; Granum moschi; Moschus Arabum; Agyntia moschata; Bamia moschata; Aleca; Aleca Indica; Aleca Ægyptiaca villosa; Abrette; Abelmosch; Abelmusk. The plant is indigenous in Egypt, and in many parts of both the Indies. These seeds have the flavour of musk. The best comes from Martinico. By the Arabians, they are esteemed cordial, and are mixed with their coffee, to which they impart their fragrance. In this country they are used by the professor. perfumers

HICCUP. Singultus. A spasmodic affection of the diaphragm, generally arising from irritation produced by acidity in the stomach, error of diet, &c. HIDRO'A. (From τδρως, sweat.) A pustular disease, produced by sweating in hot weather. HIDRO'CRISIS. (From τδρως, sweat, and κρινω, to judge.) A judgment formed from the sweat of the nation.

HIDRO'NOSOS. (From ιδρως, sweat, and νοσος,

The sweating sickness.
Y'RE'TUS. (From ιδοως, sweat, and

HIDROPY'RETUS.

ροεζος, a fever.) HIDRO'TICA. Sweating fever. (From ιδρως, sweat.) Medicines

which cause perspiration

which cause perspiration.

HIDROTOPOLETICA. (From ιδρως, sweat, and ποιεω, to make.) Sudorities.

HI'ERA. (From ιερος, holy; and from ιεραξ, a hawk.) Holy. Also applied to some plants which hawks are said to be fond of.

HIERA PICRA. (From ιερος, holy, and πικρος, bitter. Holy bitter.) Pulvis alceticus, formerly called hiera logadii, made in the form of an electuary with lioney. It is now kept in the form of dry powder, prepared by mixing Socotorine aloes, one pound, with three ounces of white canucila. of white canella.

HILERABO TANE. (From ιερος, holy, and βο ζανη, an herb: so called from its supposed virtues.) See Ver-

bena trifoliata.

HIERACANTHA. (From 120aX, a hawk, and avbos, a flower: so named because it seizes passengers as a hawk does its prey.) A sort of thistle.

HIERACAUM. (From 120aX, a hawk: so called because hawks feed upon it, or because it was said that hawks applied the juice of it to cleanse their eyes.) The name of a genus of plants in the Linnean system. Class, Syngenesia; Order, Polygamia equals. Hawks-weed. Hawk-weed.

Hawk-weed.

Hieractem Pilosella. The systematic name of the mouse-ear, Auricula muris; Pilosella; Myosotis; Hieraculum. This common plant contains a bitter lactescent juice, which has a slight degree of astrin-

Highgate resin. See Fossil copal.

HighMore, Nathaniel, was born at Fording-bridge, in Hampshire, in 1618. After graduating at Oxford, he settled at Sherborne, where he obtained considerable reputation in practice, and died in 1681. He pursued the study of anatomy with zeal, though He pursued the study of austomy with zeat, though with limited opportunities of dissection; and his name has been attached to a part, though not originally discovered by him, namely, the Autrum Maxillare, which had been before mentioned by Casserius. His principal work is "Corporis humani Disquisitio auatomica," printed at the Hague in 1651, with figures, chiefly from Vesalius. He also published two disservings as Huetogia and Hypochondrisists; and a histations on Hysteria and Hypochondriasis; and a history of Generation.

Highmore's antrum. See Antrum of Highmore. Higue'ro. The calabash-tree, the fruit of which is

HIGUS RO. The catabasis-tree, the fruitor which is said to be febrifuge.

HILDA NUS. See Fabricius, William.

HILUM. The scar, or point by which the seed is attached to its seed-vessel or receptacle, and through attached to its seed-vessel or receptacle, and through which alone life and nourishment are conveyed for the perfecting of its internal parts. Consequently all those parts must be intimately connected with the inner surface of this scar, and they are all found to meet there, and to divide or divaricate from that point, more or less immediately. In describing the form or various external portions of any seed, the kilum is always to be considered as the base. When the seed is quite ripe, the communication through this channel is interrupted it separates from the parent plant without injury, a scar being formed on each. Yet the hilum is so lar capable of resuming its former nature, that the moisture of the earth is imbibed through it, previous to germination .- Smith.

HIMANTO'SIS. (From that, a thong of leather.) A relaxation of the uvula, when it hangs down like a

HI MAS. A relaxation of the uvula

HIN. Hindisch. Hing. Assatertida. HIP. The ripe fruit of the dog-rose.

HIP. The ripe fruit of the dog-rose. They are chiefly used as a sweetmeat, or in a preserved state.

See Confectio ross counting.

HIPPOCAMPUS. (1πποκαμπος, the name of a sea insect which has a head like that of the horse, and tail like the καμπη, or cruca.)

1. The sea-horse.

2. Some parts are so called from their supposed resupplance. See Corphyrum.

Semblance. See Cerebrum.

HIPPOCA'STANUM. (From ιππος, a horse, and κας ανον, a chesnut: so called from its size.) See Æs-

culus hippocastanum.

HIPPOCRATES, usually called the father of physic, was born in the island of Cos, about 460 years before Christ. He is reckoned the 18th lineal descendant for Executarity, the sreekoned me left inneal descendant from Æsculapius, the profession of medicine flaving been hereditarily followed in that family, under whose direction the Coan school attained its high degree of eminence, and by the mother's side he is said to have descended from Hercules. Born with these advantages of the strengthed by the form of his tages, and stimulated by the fame of his ancestors, he devoted himself zealously to the cultivation of the healing art. Not content with the empirical practice, which was derived from his predecessors, he tice, which was derived from his predecessors, he studied under Herodicus, who had invented the gymnastic medicine, as well as some other philosophers. But he appears to have judged carefully for himself, and to have adopted only those principles, which seemed founded in sound reason. He was thus enabled to throw light on the deductions of experience, and clear away the false theories with which medicine had been loaded by those who had no practical knowledge of diseases, and bring it into the true path of observation, under the guidance of reason. Hence the physicians of the rational or degnatic sect always acknowledged him as their leader. The events of his life are involved in much obscurity and fable. But he appears to have travelled much, residing at different places for

gency. The roots are more powerful than the leaves. They are very seldom used in this country.

Hiera'culum. See Hieracum.

HIERA'NOSOS. (From 12590s, holy, and 12070s, a disease: so called because it was supposed to be that disorder which our Saviour cured in those who were said to be possessed of devils.) The epilepsy.

HIERA'TICUM. (From 1259, holy.) A poultie for the stomach, so named from its supposed divine virguity of the stomach, so named from its supposed divine virguity of the stomach, so named from its supposed divine virguity of the stomach, so named from its supposed divine virguity of the stomach, so named from its supposed divine virguity of the stomach, so named from its supposed mediately of the stomach, so named from its supposed divine virguity of the stomach, so named from its supposed divine virguity of the stomach, so named from its supposed divine virguity of the stomach, so named from its supposed divine virguity of the stomach, so named from its supposed divine virguity of the stomach, so named from its supposed divine virguity of the stomach, so named from its supposed divine virguity of the stomach, so named from its supposed divine virguity of the stomach, so named from its supposed to be that the various profession, and a daughter, married to his the various profession and brace, who tellowed the various virguity of the various virguity of the virguity of the various virguity of the various virguity of the various virguity virguity of the various virguity virguity of the virguity of the various virguity virguity of the various virguity virguity virguity of the virguity of th descended to modern the schools of medi-respected as oracles, not only in the schools of medi-cine, but even in the courts of law. He has shared with Plato the title of divine: statues and temples wint Plato of the of divine; statues and emplos have been elected to his memory, and his altars co-vered with incense, like those of Æsculapius himself. Indeed, the qualifications and duties required in a physcient, were never more fully exemplified than in his conduct, and more elequently described than by his pen. He is said to have admitted no one to his in structions without the solemnity of an oath, in which the chief obligations are, the most religious atten-tion to the advantages of the sick, the strictest chasnon to the advantages of the sick, the strictest chas-tity, and inviolable secrecy concerning matters which ought not to be divulged. Besides these charac-teristics, he displayed great simplicity, candour, and henevolence, with unwearied zeal, in investigating the progress and nature of disease, and in administering to their cure. The books attributed to him amount to progress and nature of disease, and in summand their cure. The books attributed to him amount to 73; of which, however, many are considered spurious, and others have been much corrupted. The most esteemed, and generally admitted genuine, are the essay "On Air, Water, and Situation," the first and third books of "Epidemics," that on "Prognostics," the "Aphorisms," the treatise "On the Diet in acute Discases," and that "On Wounds of the Head." He wrote in the Ionic dialect, in a pure but remarkably concise style. He was necessarily deficient in the knowledge of anatomy, as the dissection of human bodies was not then allowed; whence his Physiology also is, in many respects, erroneous: but he, in a great bodies was not then allowed; whence in 8 rhystology also is, in many respects, erroneous: but he, in a great measure, compensated this by unceasing observation of diseases, whereby he attained so much skill in pathology and therapentics, that he has been regarded as the founder of medical science: and his opinions still influence the healing art in a considerable degree. He diligently investigated the several causes of cases, but especially their symptoms, which enabled him readily to distinguish them from each other; and very few of those noticed by him are now unknown, mostly retaining even the same names. But he is mostly retaining even the same names. But he is more remarkably distinguished by his Prognostics, which have been comparatively little improved since which have been comparatively little improved since, founded upon various appearances in the state of the patient, but especially upon the excretions. His at tention seems to have been directed chiefly to these in consequence of a particular theory. He supposed that there are four humours in the body, blood, phlegm, yellow and black bile, having different degrees of heat or coldness, moisture or dryness, and that to certain changes in the quantity or quality of these all discusses might be referred; and farther, that these, all diseases might be referred; and farther, that in acute disorders a concoction of the morbid humours in acute disorders a concection of the morbid humours took place, followed by a critical discharge, which he believed to happen, especially on certain days. But he seems to have paid little, if any, attention to the state of the pulse. He advanced another opinion, which has since very generally prevailed, that there is a principle, or power in the system, which he called Nature, tending to the preservation of health, and the removal of disease. He, therefore, advised practitioners carefully to observe and promote the efforts of nature, at the same time correcting morbid states by their opposites, and endeavouring to bring back the fluids into their proper channels. The chief part of his treatment at first was a great restriction of the diet; in very acute diseases merely allowing the mouth to be his treatment at first was a great restriction of the diet; in very acute diseases increty allowing the mount to be moistened occasionally for three or four days, and only a more plentiful dilution during a footnight, provided the strength would bear it; afterward a more substantial diet was directed, but hardly any medicines, except gentle emetics, and iaxatives, or clysters. Where these means failed, very active purgatives were employed, as helichore, claterium, &c., or sometimes the sudorfile regimen, or gatic and other dimeries. He sudoritic regimen, or gartic and other directies. He seems cautious in the use of narcotics, but occasionally had recourse to some of the preparations of lead, copper, silver, and iron. He bled freely in cases of extreme pain or inflammation, sometimes opening two veins at

once, so as to produce fainting; and also took blood | often by cupping, but preferably from a remote part, with a view of producing a revulsion. Where medicines fan, he recommends the kmie, or even fire, as a cines run, ne recomments the kinte, of twin her a last resource, and he advises trepanning, in cases of violent headache. But he wishes the more difficult operations of surgery to be performed only by particular persons, who might thereby acquire more expertness.

HIPPOCRATIC. Relating to Hippocrates. See

Facies hippocratica.

Racies πυροστατία:

Hippola/Pathum. (From 1ππος, a horse, and λαπαθον, the lapathum.) A species of lapathum; so named from its size. See Raunez patientia.

Hippoma/Rathueum. (From 1ππος, a horse, and μαραθρον, femnel: so named from its size.) See Peuce-

danum silaus.

Hipposeli'num. (From inπος, a horse, and σελινον, purslane; so named because it resembles a large kind

purslane.) See Smyrnaum olusatrum.
HIPPU'RIS. (From ίππος, a horse, and ουρα, a tail.) Some herbs are thus named because they resemble

a horse's tail.

2. The name of a genus of plants in the Linnaan system. Class, Monandria; Order, Monagynia. Mare's

HIPPURUS VULGARIS. The systematic name of the horse's or mare's tail. Equisction; Cauda equina. It possesses astringent qualities, and is irrequently used by the common people astea in diarrheas and hemorphical common people astea in diarrheaster. rhages. The same virtues are also attributed to the Equisetum arconse, fluciatile, limosum, and other species, which are directed indiscriminately by the rhages. rm Equisetum

(From  $\{\pi\pi\sigma\varsigma$ , a horse; because the eyes of those who labour under this affliction are continually twinkling and trembling, as is usual with those who ride on horseback.) A repeated dilatation and alternate constriction of the pupil, arising from spasm, or

convulsion of the iris.

HIR. (From xeip, the hand.) The palm of the hand.

(From hir, the palm of the hand; because it is usually found empty.) The intestinum jejunum.
HIRCUS. Tragus. The goat.

HIRCUS BEZOARTICUS. (Quasi hirtus; from his shaggy hair.) The goat which affords the oriental

hezoar.

Hr aquis. (From ερκος, a hedge; because it is hedged in by the eyelash.) The angle of the eye.

HRSUTES. A trivial name in Good's Nosology for a species of disease in which hair grows in extraneous parts, or superfluously in parts where it naturally grows. Trichusts hieraties.

HRSUTUS. Hairy: applied to leaves, petals, seeds, &c. of plants; as the petals of the Menyanthes trifoliata and Asclepias crispa: the seeds of the Scandisches evaluations.

dix trichosperma.

HIRTUS. (A contraction of hirsutus.) Hairy: applied to stems of plants, as that of the Cirastium ol-

HIRU'DO. (Quasi haurudo; from haurio, to draw out: so named from its greediness to suck blood.) See Leech.

HIRUDO MEDICINALIS. See Leech.
HIRUDO MEDICINALIS. See Leech.
HIRUDO MEDICINALIS. See Leech.
For mirundo, the swallow so called from the resemblance of its pods to a swallow.) Swallowwort, or asclepias. See Lysimachia numularia and Asclepias vincetoxicum.

Hinu'nno. (Ab hærendo; from its sticking its nest to the eaves of houses.)

The swallow. 2. The cavity in the bend of the arm.

HISPI DULA. (From hispidus, rough: so named from the rough, woolly surface of its stalks.) See Gnaphalium. HISPIDUS.

Graphatum.

HISPIDUS. Bristly: applied to stems, seeds, &c. of plants. The Borago officinalis is a good example of the Caulus hispidus: the seeds of the Dancus carota, and Galum horeals.

HOARHOUND. See Marruhium.

HODGES, NATIANIEL, son of the Dean of Hereford, was born at Kensington, and graduated at Oxford in 1659. He then settled in London, and continued there during the plague, when most other physicians deserted their post. He was twice taken ill, but by timely reme dues recovered. He attenuard published an authentic account of the disease, which appears to have do

stroyed 68,596 persons in the year 1665. regretted, that a person who had performed such an important and dangerous service to his fellow-citizens,

important and daugerous service to his fellow-citizens, should have died in prison, confined for derl, in 1684. HOFFMANN, FREDERIC, was born at Halle, in Saxony, 1660. Having lost his parents from an epidemic disease, he went to study medicine at Jena, where he graduated in 1681. The year following he published an excellent tract, "De Cinnabar Antimonii," which gained him great applause, and numerous pupils to attend a course of chemical lectures, which he delivered there. He then practized his weerous pupils to attend a course of chemical lectures, which he delivered there. He then practised his profession for two years at Minden with very good success; and after travelling to Holland and England, where he received many marks of distinction, he was appointed, on his return in 1685, physician to the garrison, and subsequently to Frederic William, Elector of Brandenburgh, and the whole principality of Minden. He was, however, induced to settle, in 1688, as public physician at Halberstadt; where he published a treatise, "De Insufficiencia Acidi et Viscidi." A university being founded at Halle, by Frederic III., afterward first King of Prussia, Hollman was appointed, in 1693, primary Frofessor of Medicine, and composed the Statutes of that institution, and recommended Stahl as his colleague. He was most active composed the Statutes of that institution, and recom-mended Stabl as his colleague. He was most active in his professional duties; and by the eloquence and learning displayed in his lectures and publications, he extended his own reputation, and that of the new uni-versity. He was admitted into the scientific societies at Berlin, Petersburgh, and London; and had the honour of attending many of the German courts as physician. Haller asserts that he acquired great wealth by the sale of various chemical nostrums. He weathing the same of various chemical nostfilms. It examined many of the unineral waters in Germany, particularly those of Seidlitz, which he first introduced to public notice in 1717. The year after he commenced the publication of his "Medicina Rationalis Systematica," which was received with great applause by the faculty in various parts of Europe, and is said to have comined him nearly twenty wears. He also by he raciny in various parts of Panope, and is sain to have occupied him nearly twenty years. He also published two volumes of "Consultations," and three books of select chemical observations. In 1797, he books of select chemical observations. In 1737, he was created Count Palatine, by the Prince of Swartzenburgh, whom he carried through a dangerous discase. About seven years after, he attended Frederic William, King of Prussia, and is said by dignified remonstrance to have secured himself against the brutal ruedness shown by that monarch to those about him; he was ultimately distinguished with great honours, and invited strongly to settle at Berlin, but declined it on account of his advanced age. He continued to perform his duties at Halle till 1742, in which year he died. Hoffman was a very voluminus, witer year he died. Hoffman was a very voluminous writer. His works have been collected in six folio volumes, printed at Geneva. They contain a great mass of valuable practical matter, partly original, but detailed in a prolix manner, and intermixed with much hypo-He has the merit, however, of first turning the attention of practitioners to the morbid affections of the nervous system, instead of framing mere mechani-cal or chemical theories: but he did not carry the doc-trine to its fullest extent, and retained some of the errors of the humoral pathology. He pursued the study of chemistry and pharmacy with considerable ardour; but his practice was cautious, particularly in advanced age, trusting much to recent the simples. Advanced age, trusting much to vegetable simples.
[Hoffman's anodyne Liquor. Formerly so called:

now known by the name of compound spirit of Sul-phuric ether. A.]

Hog's fennel. See Peucedanum.

[Hog tooth spar. A variety of calcareous spar. A.] Ho'loimos. (From ελκω, to draw.) It sometimes means a tumour of the liver

HO'LCUS. 1. The name of a genus of plants in the Linnaan system. Class, Polygamia; Order, Mo-

nweia.
2. The Indian millet-seed, which is said to be nutri

Guinea corn

HOLERACEUS. See Obracous.
[HOLYOKE, Dr. Edward. This beloved and venerated man was born at Marblehead, Mass. in 1728. The house in which he was born is still standing. He was graduated at Harvard University in 1746, and settled in this place in 1749, where he has ever since, for a period of 80 years, resided, useful, beloved,

and honoured. He was married, the first time in 1755, and a second time in 1759. He had by the second marriage 12 children, of whom only two survive. His only child by his first wife died in infancy. He has lived in his mansion-house, in Essex-street, for the last 66 years, and at one period of his practice, he has stated that there was not a dwelling-house in Salem which he had not visited professionally. For a long period he nearly engrossed the medical practice of the place, and is known to have made a hundred professional visits in a day. This was in May or June of 1783, at which time the measles prevailed epidemically. He passed his long life in almost uninterrupted health, without any of those accidents and dangers which his skill was exerted to remedy and remove in others, and his old age has been almost without infirothers, and his old age has been almost without infirmity, and literally without decreptude. Who that saw him does not recollect his firm and elastic step and his cheerful looks on the day of his hundredth anni versary? To much crecise and great temperance be was disposed to attribute his health and advanced age. And when to these causes we add those of pious opinions. virtuous practices, and a calm, cheerful, and contented virtuous practices, and a catha, cheerful, and contented spirit, we shall have disclosed much of the secret of his corporeal advantages. Of his temperance we are induced to make one remark, that it was not a system of rules in diet and regimen, but a temperance of moderate desires. He empoyed all the bounties of Providence with remarkable appetency, but his well-regulated mind advays saved him from excessive indugence. Of his exercise some idea may be formed by a computation which he made a short time before his decease, that he had walked in the course of his practice, a distance which would reach three times round the globe. He died in 1889. A.]

Hollow leaf. See Concavus.

Holly, knee. See Ruscus. Holly, sea. See Eryngium.

Holmi'seus. (Dim. of ολμος, a mortar.)

A small mortar.
 The cavity of the large teeth, because they pound

the food as in a mortar.

HOLMITE. A new mineral composed of lime, carbonic acid, alumina, silica, oxide of iron, and

HOLOPILY'CTIDES. (From ολος, whole, and φλυκζις, a pustule.) Little pimples all over the body. Holo'stes. See Holosteus.

Noto Steps. See Holosteus. Noto'steps. (From olos, whole, and of cov, a hone.)

Glue-bone. See Osteocolla

HOLOTO'NICUS. (From ολος, whole, and τεινω, to stretch.) A term formerly applied to diseases accom-

stretch.) A term formerly applied to diseases accompanied with universal convulsion, or rigour.

HOLY THISTLE. See Centaurea benedicta.
HOLYWELL. There is a mineral water at this place arranged under the class of simple coid waters, remarkable for its purity. It possesses similar virtues to that of Malvern. See Malvern water.
HOMA. An amsarcous swelling.
Homberg's shosphorus. Ignited muriate of line.
Homberg's sait. See Baracre acid:
HOMOGENEOUS. (Homogeneus; from opos, like, and yang, a kind.) Unitorm, of a like kind or species, of the same quality. A term used in contradistmetion to heterogeneous, when the parts of the body are of

to heterogeneous, when the parts of the body are of different qualities.

different qualities.

HOMOPLATA. (From \(\text{prom }\text{upos}\), the shoulder, and \(\text{rho}\) kollade. See \(\text{Scapula}\).

HONEY. See \(\text{Mel}\).

Honey colour, distinctly crystallized, and occurs on bituminous wood and earth coal, and is usually accompanied with sulphur at Artern, in Thuringia.

HONEY. SUCKLE. See \(\text{Lonicera periclymenum.}\)

Hooplose \(\text{Homulus lupalus.}\)

HOPLOSER'SMA. (From \(\text{orm }\text{orm }\text{orm }\text{orm }\), a weapon, and \(\text{2000 tops }\text{3000 tops }\), as weapon, and \(\text{2000 tops }\text{3000 tops }\text{3000 tops }\), a sheep \(\text{orm }\text{tops }\text{various }\text{various }\text{various }\text{various }\text{various }\text{various }\), a weapon, and \(\text{2000 tops }\text{3000 tops }\text{various }\tex

HORDE'OLUM. (Diminutive of kordeum, barley.)
A little tumour on the cyclids, resembling a barleycorn. A styc. Scarpa remarks, the styc is strictly
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only a little bile, which projects from the edge of the only a little blic, which projects from the edge of the cyclids, mostly near the great angle of the eye. This hate tumour, like the furmentus, is of a dark red colour, much inflamed, and a great deal more painful than might be expected, considering its small size. The latter circumstance is partly owing to the vehemence of the inflammation producing the styr, and partly to the exquisite sensibility and tension of the skin, which covers the edge of the evelids. On this account, the hordeolum very often excites fever and restlessness in delicate, irritable constitutions; it suppurates slowly and imperfectly; and, when suppurated, has no ten-

The stye, like other furunculous inflammations, forms an exception to the general rule, that the best mode in which indammatory swellings can end, is resolution; for whenever a furunculous inflammation extends so deeply as to destroy any of the cellular substance, the little tumour can never be resolved, or only imperfectly so. I are event, intered, would rather be huilful, since there would still remain behind a greater or smaller portion of dead cellular membrane; which, somer or later, might bring on a renewal of the stye in the same place as before, or else become converted into a hard indokent body, deforming the edge of the cyclid. HO RDECM. (Ab horrore arrstæ; from the unpleassantness of its beard to the touch.) 1. The name

of agenus of plants in the Linnavan system. Class, Triandria; Order, Digynia. Barley. 2. The pharmacopeial name of the common barley See Hordium valgare.

See Hordeum valgare.

Hordeum distretion. This plantafords the barley in common use. See Hordeum vulgare.

Hordeum distretion. This plantafords the barley in common use. See Hordeum vulgare.

Hordeum vulgare. The systematic name of the common barley. The seed called barley, is obtained from several species of hordeum, but principally from the systematic name of the common of Second barley, and the the vulgare, or common or Scotch barley, and the distiction, or hordeum gallicum vel mundatum, or French barley, of Linnaus. It is extremely nutritious French barley, or Limizes. It generally naturous and meritaginous, and meritaginous, and members of the chest, especially where there is cough or irritation about the fauces. A decoction of barley with gum, is considered a useful diluent and demulcent in gum, is considered a useful ofluent and demulcent in dysury and strangury; the gum mixing with the urine, sheaths the urinary canal from the actimony of the urine. Among the ancients, decoctions of barley,  $\kappa_B d\theta_B$ , were the principal modicine, as well as aliment, in acute diseases. Burley is freed from its shells in nills, and in this state catical Scotch and French barley. In Holland, they rub barley into small round grains somewhat like pearls, which is therefore called nearl arley, or hordeum perlutum. HORIZONTALIS. Horizontal: applied to leaves,

roots, &c. which spread in the greatest possible degree; as the leaves of Gentiana campestris, and roots of the

as the leaves of Grenium campesters, and roots of the Lasterphane prutenieum.

HORMINUM. (From ορμαω, to incite: named from its supposed qualities of provoking venery.) See

HORN. An animal substance chiefly membraneous, composed of congulated albumen, with a little gelatin, and about a half per cent. of phosphate of line. The horns of the buck and hart are of a different nature, being intermediate between bone and horn.

See Cornu.

Horn silver. A chloride of silver.

HORNBLENDE. A sub-species of straight-edged augite. There are three varieties of it:

1. Common harmblende, which is of a greenish black colour: is an essential ingredient of the mountain rocks, syenite and green-stone, and occurs frequently in granite, gneiss, &c. It is found abundantly in the British isless, and on the Continent.

2. Harmblende, slage, of a golunt intermediate by

2. Hornblende slate, of a colour intermediate between green and black. It occurs in beds of gueiss in many parts of Scotland, England, and the Conti-

B. Basaltic hornblende, of a velvet black colour. It 6. Basaltic hornblends, of a velvet black colour. It is found imbedded in basalt, along with olivine and augite, at Arthur's Seat, near Edinburgh, and in basaltic rocks of England, Ireland, and the Continent. HORNSTONE. Professor Jameson's minth subspecies of rhomboidal quartz.

HORNIFILATIO. Horripilation. (From horror,

and pilus, a hair.) A shuddering or a sense of creeping in different parts of the body. A symptom of the approach of fever.

approach of rever.

Horse-chesaut. See Esculus happocastanum.

Horse-radish. See Cochlearea armovaeia.

HORSE TAIL. See Happurus valgaris.

HORSETUS, Graegory, was born at Torgau, in 1578. After studying in different parts of Germany and Switzerland, he graduated at Bael in 1606, and was soon after appointed to a medical professorship at Wittenburg. But two years after he received a simi-Withham B. But two years after the reverse is son-lar appointment at Gressen, and was made chief phy-sician of Hesse; where he attained considerable reput-tation in fits profession. In 1722 he went to Utin, on an invitation from the magistracy as public physician and president of the college; where his learning, skill and humanity, procured him general esteem. He died in 1636. His works were collected by his sons in three folio volumes.

HORTUS. (From orior, to rise, as being the place where vegetables grow up.) 1. A garden.
2. The genitals of a woman, which is the repository

of the human semen.

of the human senger.

Horrus steeps. A collection of dried plants
HOUNDS TONGUE. See Cynoglussum.
HOUSE-LEEK. See Sempereivent tectorum.
HUBER, John James, was born at Basle in 1707,
and graduated there at the age of 26, after studying

under the celebrated Haller and other able teachers Two years after he was appointed physician to the Court of Baden Dourlach. He materially assisted Haller in his work on the Botany of Switzerland, and was consequently invited by him in 1738 to be dissector at Gottingen.

He speedily rose to considerable reputation there, and received different public appointments. He had likewise the honour of being elected into the most celebrated of the learned societies in Europe. He died in 1778. The chief objects of his research were the spinal marrow, and the nerves originating from it: also inquired into the supposed influence of the imagination of the mother on the foctus, and into the cause

f miscarriages.
[HULL, Dr. Amos G. This gentleman is a living [HULL, Dr. Amos G. This gentleman is a living practitioner of physic and surgery in the city of New-York. He has paid particular attention to the cure of Reducible Hernia, and has succeeded beyond all other surgeons in the cure of this frequent complaint. Practitioners have most usually directed their patients to apply a truss. Dr. Hull, however, in attending more particularly and personally to the adaptation of trusses to different kinds of Reducible Hernia, found that they were all made units errogeous principles. He has acwere all made upon erroneous principles. He has ac-cordingly invented a truss differing from all preceding trusses, and it has the general approbation of practi trusses, and it has the general approbation of practitioners in this country, for its simplicity and superior
utility. He has improved upon those he first made,
and he now calls it his improved large and proof
Truss, for an account of which see article, Truss. A.]
HULME, NATHANIEL, was born at Balifax, in Yorisstructure, 1732, and bred to the profession of a surgeonapothecary. After serving some time in the navy, he
graduated at Edinburgh in 1765. He then settled in

London, and was soon after appointed physician to the General Dispensary, the first institution of that kind established in the metropolis. About the year 1775 be was elected physician to the Charter house. In 1807 he died, in consequence of a severe bruse by a fall. He was author of several dissertations on scurvy, puerperal fever, &c. He also made a series of experiments on the light spontaneously emitted from various bodies, published in the Philosophical Transactions and the published in the Philosophical Transactions and the published in the Philosophical Transactions. ous nones, published in the l'infosophéd Transactions; and he was one of the editors of the London Practice of Physic.

HUMEUTA NTIA. (From humereto, to make moist.) Medicines which are supposed capable of softening by making the solids of the body moist.

HUMERAL. Humeralis. Belonging to the hume-

rus or arm.

HUMERAL ARTERY. Arteria humeralis. artery. The axillary artery, having passed the tenion of the great pectoral muscle, changes its name to the brachial or humeral artery, which name it retains in its course down the arm to the head, where it divides into the radial and ulnar arteries. In this course it gives off several muscular branches, three of which only deserve attention: 1. The arteria profunda supe-

rior, which goes round the back of the arm to the exterior muscle, and is often named the upper muscular artery. 2. Another like it, called arteria profunda in-fector, or the lower muscular artery. 3. Rumus anas-tomoticus major, which anastomoses round the elbow with the branches of the ulnar artery,

HUMERUS. (From  $\omega_{\mu\nu\rho}$ , the shoulder.)

1. The arm, as composed of hard and soft parts, from the shoulder to the forearm.

from the spontifer to the torearm.

2. The shoulder.

3. The bone of the arm, or os kumeri, os brachti. A long cylindrical bone, situated between the scapula and forearm. Its upper extremity is formed somewhat laterally and internally, into a large, round, and smooth head, which is admitted into the glemond cavity of the scapula. Around the basis of this head is observed a circular fossa, deepest anteriorly and externally, which forms what is called the neck of the bone, and from the edge of which arises the capsular ligament, which is further strengthened by a strong membraneous ex-pansion, extending to the upper edge of the glenoid cavity, and to the coracoid process of the scapula; and likewise by the tendinous expansions of the muscles, inserted into the head of the humerus. This capsular ligament is sometimes torn in Auxation, and becomes an obstacle to the easy reduction of the bone. The articulating surface of the head is covered by a car tilage, which is thick in its middle part, and thin towards its edges; by which means it is more convex in the recent subject than in the skeleton. This upper extremity, besides the round smooth head, affords two other smaller protuberances. One of these, which is the largest of the two, is of an irregular oblong shape, and is placed at the back of the head of the bone, from which it is separated by a kind of groove, that makes a part of the neck. This tuberosity is divided, at its a part of the neck. First another is a type of the upper part, into three serifaces; the first of these, which is the smallest and uppermost, serves for the insertion of the supraspinatus muscle; the second or middle most, for the insertion of the infraspinatus; and the third, which is the lowest and hindmost, for the inser-tion of the teres minor. The other smaller tuberosity is situated anteriorly, between the larger one and the head of the humerus, and serves for the insertion of the subscapularis muscle. Between these two tube-rosities there is a deep groove for lodging the tendinous band of the rosities there is a deep groove for longing the fendinous head of the biceps brachii; the capsular figament of the joint affording here a prolongation, thinner than the capsule itself, which covers and accompanies this muscle to its fleshy portion, where it gradually disap-pears in the adjacent cellular membrane. Immediately below its neck, the os humeri begins to assume a cylindrical shape, so that here the body of the bone may be said to commence. At its upper part is observed a commency of the property of the property of the length of the length of the bone in an oblique direction. The cities of this grouve are continuations of the greater and smaller tuberosities, and serve for the attachment of the pectoralis, latissimus dorsi, and teres major muscles. The grouve itself is lined with a glistening subcles. The grove user is mice want a stance like cartilage, but which seems to be nothing stance like cartilage, but which seems to be nothing stance than the remains of tendinous fibres. A little lower down, towards the external and anterior side of the middle of the bone, it is seen rising into a rough ridge for the insertion of the deltoid muscle. On each side of this ridge the bone is smooth and flat, for the lodgment of the brachialis internus muscle; and behind the middle part of the outermost side of the ridge is a channel, for the transmission of vessels into the substance of the bone. A little lower down, and near the inner side of the ridge, there is sometimes seen such mother channel, which is intended for the same purpose. The os huneri, at its lower extremity, becomes gradually broader and flatter, so as to have this end nearly of a triangular shape. The bone thus expanded, affords two surfaces, of which the anterior one is the breadest, and somewhat convex; and the posterior one narrower and smoother. The bone terminates in four large processes, the two outermost of which are called condules, though not designed for the attendation of the bone. These condyles, which are haded at some distance from each side. hind the middle part of the outermost side of the ridge placed at some distance from each other, on each side of the bone, are rough and irregular protuberances, formed for the insertion of muscles and ligaments, and differ from each other in size and shape.

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condyle, when the arm is in the most natural position, is characterized by a peculiar sensation in the region is found to be placed somewhat forwarder than the other. The internal condyle is longer, and more protuberant, than the external. From each of these processes a ridge is continued upwards, at the side of the bone. In the interval between the two condyles are placed the two articulating processes, contiguous to each other, and covered with cartilage. One of these, which is the samilest; is formed into a small, obuse, smooth head, on which the radius plays. This little head is placed near the external condyle, as a part of companied by yawnings, and a particular noise, produced by the gases contained in the stomach, which the radius plays. The other, and larger process, is composed of two lateral protu-brances and a middle cavity, all of which are smooth head is placed hear the external control, as a partie, which it has been sometimes described. The other, and larger process, is composed of two lateral protuberances and a middle cavity, all of which are smooth because in the cavity of the and covered with cartilage. From the manner in and covered with cartiage. From the manner in which the ulna moves upon this process, it has gotten the name of trocklea, or pulley. The sides of this pulley are unequal; that which is towards the little head, is the highest of the two; the other, which is contiguous to the external condyle, is more slanting, being strength of the control of the con one to the external compact, is hore santing owing situated obliquely from within outwards, so that when the forearm is fully extended, it does not form a straight line with the os huneri, and, for the same reason, when we bend the elbow, the hand comes not to the shoulder, we be a the expected to do, but to the forepart of the breast. There is a cavity at the root of these processes, on each of the two surfaces of the bone. The cavity on the anterior surface is divided by a ridge into two, the external of which receives the end of the radius, and the internal one lodges the coronoid process of the ulna in the flexions of the forearm. The cavity on the posterior surface, at the basis of the pulcavity on the posterior surface, at the basis of the pul-ley, is much larger, and lodges the oleranon when the arm is extended. The internal structure of the os-humen is similar to that of other long bones. In new-corn infants, both the ends of the home are cartilagi-nous, and the large head, with the two tubercles above, and the condyles, with the two articulating processes below, become epiphyses before they are entirely united to the rest of the home. HUMLIS. (From hum, on the ground; so named because it turns the averders made and is expressive

because it turns the eye downwards, and is expressive

of humility.) See Rectus injection oculi:
HUMFTE. A mineral of a reddish brown colour
found near Naples, and named by Count Bournon in
honour of Sir Abraham Hume, a distinguished culti-

vator of mineralogy.

HI'MOR. (Ab huno, from the ground; because moisture springs from the earth.) Humour, a general name for any fluid of the body except the blood.

HUMOR VITREUS. The vitreous humour of the eye,

which takes its name from the resemblance to melted glass, is less dense than the crystalline but more than the aqueous humour; it is very considerable in the human eye, and seems to be formed by the small arteries that are distributed in cells of the hyalord membrane; it is heavier than common water, slightly albuminous and saline.

HUMOUR. See Humor.
Humour, aqueous. See Aqueous humour.
Humour, vitreous. See Humor vitreus.
Humours of the Eye. See Eye.
HUMULIN. The narcotic principle of the fruit of

HUMULIN. The narcotic principle of the fruit of the hop. See Humulus.

HUMULUS. (From humus, the ground: so named because, without factitions support, it creeps along the ground.) The name of a genus of plants in the Linnean system. Class, Diacia; Order, Pentandria.

The hop-

The hop.

HUNDLUS LUPULUS. The systematic name of the hop-plant. Lupulus; Convolvulus perennis. The hop is the floral leaf or bractes of this plant: it is dried and used in various kinds of strong beer. Hops have a bitter taste, less ungrateful than most of the other strong bitters, accompanied with some degree of warmth and aromatic flavour, and are highly intoxicating. The hop-flower also exhales a considerable quantity of its narcotic power in drying; hence those who sleep in the hop-houses are with difficulty roused from their slumber. A pillow stuffed with these flowwho sleep in the hop-houses are with difficulty roused from their slumber. A pillow stuffed with these flowers is said to have laid our late monarch to sleep when other remedies had failed. The young sprouts, called hop-tops, if plucked when only a foot above the ground, and boiled, are eaten, like asparagus, and are a whole-nome delicacy. The active or narcotic principle of the

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it increases, and may become a severe pain: the same takes place with the sensation of weakness and general fatigue, which is felt, and which may increase, so as to render the motions difficult, or even im-

Authors distinguish in hunger, local phenomena, and

general phenomena

This distinction is good in itself, and may be useful for study: but have not mere gratuitous suppositions been described as local or general phenomena of hunger, the existence of which was rendered probable by this theory? This point of physiology is one of those in which the want of direct experiment is the most strongly felt.—The pressure and contraction of the stomach are considered among the local phenomena of hunger: 'the sides of that viscus,' it is said, 'become thicker; it changes its form and situation, and draws the duodenum a little towards it; its cavity contracts of the property of the prope for study; but have not mere gratuitous suppositions araws the auddenum a little towards 11, 18 cavily contains salive mixed with air, mucosilies, bile, which has reguigitated in consequence of the dragging of the duodenum; the quantity of these humours increases in the stomach in proportion as hunger is of longer continuation. The cystic bile does not flow into the duodenum; it collects in the gall bladder, and it becomes abundant and black according to the continuance of abstinence. A change takes place in the order of the circulation of the digestive organs; the stomach receives less blood, perhaps on account of the flexion of these vessels, which is then greater; perhaps by the compression of the nerves, in consequence of this confinement, the influence of which upon the cir-culation will then be diminished. On the other hand, culation will then be diminished. On the other hand, the liver, the spleen, the epiploon, receive more, and perform the office of directreda: the liver and the spleen, because they are less supported when the stomach is empty, and then present a more easy access to the blood; and the epiploon, because the vessels are then less flexuous; '&c. The most of these data are mere conjectures, and nearly devoid of proof. After liventy-four, forty-eight, and even sixty hours of complete abstinence, Dr. Magendie says he never saw the contraction and pressure of the stomach of which some authors speak; this organ has always presented to him very considerable dimensions, particularly in its splenic extremity; it was only after the fourth and fifth day that it appeared to return upon itself, to diminish much in size, and slightly in position; even these effects are not strongly marked unless fasting has been very strictly observed. been very strictly observed.

Bichat thinks that the pressure sustained by the empty stomach is equal to that which it supports when empty stormach is equal to that which it supports when distended by aliments, since, says he, the sides of the abdomen are compressed in proportion as the volume of the stomach diminishes. The contrary of this may be easily proved by putting one or two fingers into the abdominal cavity, after having made an incision in its sides; it will then be easily seen that the pressure susstates: it will then be easily seen that the pressure sustained by the viscera, is, in a certain degree, in direct proportion to the distention of the stomach; if the stomach is full, the finger will be stronger pressed, and the viscera will press outward to escape through the opening; if it is empty, the pressure will be very trifling, and the viscera will have little tendency to pass out from the abdominal cavity. It must be in derstood that in this experiment the pressure exerted by the abdominal muscle, when they are relaxed, ought not to be confounded with that which they exert when not to be combunded with that which they exert when contracted with force. Also, when the stomach is empty, all the reservoirs contained in the abdomen are more easily distended by the matters which remain some time in them. Perhaps this is the principal reason why bile then accumulates in the gall-bladder. With regard to the presence of bile in the compact that some presence exercise is the contract. hep, is called humulin.

HUNGER. Fames. The want of solid aliments stomach, that some persons regard as the cause of

huffger, imless in certain sickly cases bile does not enter it, though it continues to flow into the small in-

The quantity of mucus that the cavity of the stomach presents is so much greater in proportion to the prolongation of abstinence.

prolongation, or abstrained.

Relatively to the quantity of blood which goes to the stomach when empty, in proportion to the volume of its vessels, and the mode of circulation which then exists, the general opinion is that it receives less of this fluid than when it is full of aliments; but, far from being in this respect in opposition with the other abdominal organs, this disposition appears to be common to all the organs contained in the abdomen

To the general phenomena of hunger is ascribed a weakness and diminution of the action of all the organs; the circulation and the respiration become slow, the heat of the body lowers, the secretions diminishing the secretions diminished the secretion of t nish, the whole of the functions are exerted with more difficulty. The absorption alone is said to become more active, but nothing is strictly demonstrated in

this respect.

Hunger, appetite itself, which is only its first degree, ought to be distinguished from that feeling which induces us to prefer one sort of food to another, from that which causes us, during a repast, to choose one dish

rather than another, &cc

These feelings are very different from real hunger, which expresses the true wants of the economy; they in a great measure depend on civilization, on habits, and certain ideas relative to the properties of aliments. Some of them are in unison with the season, the climate, and then they are equally legitimate as hunger itself; such is that which inclines us to a vegetable regimen in hot countries, or during the heats of Bummer

Certain circumstances render hunger more intense. certain circumstances render nunger more intense, and cause it to return at nearer intervals; such as a cold and dry air, winter, spring, cold baths, dry frictions upon the skin, exercise on horseback, walking, bodily fatigue, and generally all the causes that put the action of the organs in play, and accelerate the nutritive process with which hunger is essentially connected. Some substances, being introduced into the stomach, excite a feeling like hunger, but which ought not to be confounded with it.

There are causes which diminish the intensity of There are causes which diminish the intensity of hunger, and which prolong the periods at which it habitually manifests itself; among this number are the inhabiting of hot countries, and humid places, rest of the body and mind, depressing passions, and indeed all the circumstances that interrupt the action of the organs, and diminish the activity of nutrition. There are also substances which, being brought into the digestive canals, prevent hunger, or cause it to cease, as opium, hot drinks, &c.

With respect to the cause of hunger, it has been, by turns, attributed to the providence of the vital principle, to the frictions of the sides of the stomach against

ple, to the frictions of the sides of the stomach against each other, to the dragging of the liver upon the diaphragm, to the action of bile upon the stomach, to the acrimony and acidity of the gastric juice, to fatigue of the contracted fibres of the stomach, to compression of

the nerves of this viscus, &c. &c

Hunger arises, like all other internal sensations, from Hunger arises, like all other internal sensations, from the action of the nervous-system; it has no other seat than this system itself, and no other causes than the general laws of organization. What very well proves the truth of this assertion is, that it sometimes continues though the stomach is filled with food; that it cannot be produced though the stomach has been some time empty; lastly, that it is so subject to habit as to cease spontaneously after the habitual hour of repeat is over. This is true not only of the feeling repast is over. This is true not only of the feeling which takes place in the region of the stomach, but also of the general weakness that accompanies it, and which, consequently, cannot be considered as real, at

least in the first instant in which it is manifested."
HUNTER, WILLIAM, was born in 1718, at Kilbride
in Scotland. He was educated for the church at Glasgow; but feeling scraples against subscription, and having become acquainted with the celebrated Cullen, he determined to pursue the inedical profession. After living three years with that able teacher, who then practised as a surgeon-apothecary at Hamilton, he went to Edinburgh in November, 1740; and in the following summer came to London with a recommenda-

tion to Dr. James Douglas, who engaged him to assist in his dissections, and superintend the education of his son. He was also enabled by that physician's libehis son. He was also enabled by that physician since raility to attend St. George's Hospital, and other teach-ers; but death deprived him of so valuable a friend within a year. However, he remained in the family, and prosecuted his studies with great zeal. In 1743, he communicated to the Royal Society a paper on the structure and diseases of articulating cartilages, which structure and useases of articulating cardiages, which was much admired. He now formed the design of teaching anatomy; and, after encountering some difficulties, commenced by giving a course on the operations of surgery to a society of navy surgeons in lieu of Mr. Samuel Sharpe. At first he feit considerable solicitude in speaking in public; but gradually this wore off, and he evinced a remarkable facility in expression, thought without the solicitude of the speaking in public; but gradually this wore off, and he evinced a remarkable facility in expression, thought without and the speaking the sp pressing himself with perspicuity and elegance. He gave so much satisfaction, that he was requested to exgave so finen satematically the began accordingly in 1746. His success was considerable, but having somewhat embarrassed himself at first by assisting his somewhat chinarrased ministed at mixthy assisting ins friends, he was obliged to adopt proper caution in lending money; which, with his talents, industry, and economy, enabled him to acquire an ample fortune. In 1748, he accompanied his pupil, young Douglas, on a tour, and having seen the admirable injections of Albinus at Leyden, he was inspired with a strong emulation to excel in that branch. On his return, h relinquished the profession of surgery, and devoted himself to midwifery, to which his person and man-ners well adapted him; and having been appointed to the Middlesex and British lying-in hospitals, as well as the Middlesex and British lying-in hospitals, as well as favoured by other circumstances, he made a rapid ad-vance in practice. In 1750 he obtained a dector's degree from Glasgow, and was afterward often con-suited as a physician, in cases which required peculiar sulfed as a physician, in cases which required peculiar anatomical skill. Six years after, he was admitted a licentiate of the College in London; and also a member of the society, by which the "Medical Observations and Inquiries" were published. He enriched that work with many valuable communications; particularly an account of the disease, since called Aneurismal Varix, a case of emphysema, with practical remarks, wherein he showed the fat to be deposited in distinct vesticles; and some observations on the retroversion of the uterus: and, on the death of Dr. Fotherwill, he was chosen president of that society. In 1762: gill, he was chosen president of that society. In 1762 he published his "Medical Commentaries," in which he laid claim, with much asperity, to several anatomical discoveries, especially relative to the absorbent system, in opposition to the second Monro, of Edinburgh. He was extremely tenacious of his rights in this respect, and would not allow them to be infringed, even by his own brother. It must be very difficult, and of little importance, to decide such controversies; especially as the principal points concerning the absorbent system had been stated as early as 1726, in a work printed at Paris by M. Noguez. About the same work printed at Paris by M. Noguéz. About the same period, the queen being pregnant, Dr. Hunter was consulted; and, two years after, he was appointed her physician extraordinary. In 1767 he was chosen a Fellow of the Royal Society, to which he communicated some papers; and, in the year following, he was appointed, by the king, Professor of Anatomy to the Royal Academy on its first institution. the Royal Academy, on its first institution; he was also elected into the Society of Antiquaries, and some respectable foreign associations. In 1775 he published a splendid work, which had occupied him for 24 years previously, "The Anatomy of the Gravid Uterus," illustrated by plates, admirable for their accuracy, as well as elegance; among other improvements, the membrana decidua reflexa, discovered by himself, was membrana decidua reflexa, discovered by himself, was here first delineated. He drew up a detailed description of the figures; which was published after his death by his nephew, Dr. Baillie. Another posthumous publication, deservedly much admired, was the "Two Introductory Lectures" to his anatomical course. As his wealth increased, he formed the noble design of establishing an anatomical school; and proposed to government, on the grant of a piece of ground, to build a proper edifice and endow a perpetual professorship; but this not being acceded to, he set along to bind a project chine and control of the set about fessorship: but this not being acceded to, he set about the establishment in Great Windmill street, where he collected a most valuable museum of anatomical preparations, subjects of natural history, scarce books, coms, &c. to which an easy access was always given. He continued to lecture and practise till near the pe-

root of his nearth, in 1755. He bequeathed the use of his museum, for thirty years, to Dr. Braille, after which it was to belong to the University of Glasgow. HUNTER, Johns, was born ten years after his bro-ther William. His early education was much ne-glected, and his temper injured, through his mother's glected, and his temper injured, finning his modulers, includence. At a proper age he was put under a relation, a carpenter and calainet maker, who failed in his business. Hearing, at this period, of his brother's success, he applied to become his assistant, and accordingly came to London in the autumn of 1748. He made such proficency in dissection, that he was capatally and the such proficency in dissection, that he was capatally contributed to the contribute of the contribu season. During the summer he attended the surgical practice at different hospitals; and, in 1756, he was appointed house-surgeon at St. George's. He had appointed nonsostingon at St. Georges. The man been admitted by his brother to a partnership in the lectures the year before. After labouring about ten years with unexampled ardour in the study of human anatomy, he turned his attention to that of other animals, with a view to elucidate physiology. His health was so much impaired by these pursuits, that, in 1760, he went abroad as surgeon on the staff, and thus account of the property of the staff of the property of the staff of the he went abroad as surgeon on the staff, and thus acquired a knowledge of gane-shot wounds. On his return, after three years, he settled in London as a surgeon, and gave instructions in dissection and the performance of operations; and he continued, with great zeat, his researches into comparative anatomy and natural history. Several papers were communicated by him to the Royal Society, of which he was elected a member in 1767. About this time, by his brother's intenset, he was appointed one of the surgeons at St. George's Hospital; and his professional reputation was rapidly increasing. In 1771 he published the first part of his work on the teeth, displaying great accuracy of research: and, two years after, he began a course of lectures on the principles of surgery. He fell short of his brother in methodical arrangement, and facility of his brother in methodical arrangement, and facility of expressing his ideas, and indeed adopted a peculiar language, perhaps in part from the deficiency of his education; but he certainly brought forward many ingenious speculations in physiology and pathology, and suggested some important practical improvements, particularly the operation for poplitical aneurism. In 1776 he was appointed surgeon-extraordinary to the king; and soon after received marks of distinction from several foreign societies. His emoluments increasing, he took a large house in Leicester-square, creasing he took a large house in Leicester-square, and built a spacious massum, which he continued to store with subjects in comparative anatomy, at a very great expense. The post of Deputy-Surgeon General to the Army was conferred upon him in 1786; and, in the same year, his great work on the veneral disease appeared, which will ever remain a monument of his extraordinary segacity and talent for observation. He also published, at this period, "Observations on the Armial Teonomy," chiefly composed of papers already printed in the Philosophical Transactions. In 1790 he was appointed Inspector-General of Hospitals, and Surgeon-General to the Army; when he pitals, and Surgeon-General to the Army; when he resigned his lectures to Mr. Home, whose sister he had married. He had been for two years before labouring married. He had been for two years before labouring under symptoms of organic disease about the heart, which were aggravated by any sudden exertion or agitation of his mind; these increased progressively, and, in October 1793, while at the hospital, being vexed by some untoward circumstance, he suddenly expired. He left a valuable treatise on the blood, inflammation, and gun shot wounds, which was published soon after, with a life prefixed, by his brother in-law. His museum was directed to be offered to the purchase of covernment, it was brught in the 15,000, and many contractions are supported by the covernment. government: it was bought for 15,000l. and presented to the College of Surgeons, on condition of their opento the codege of Surgeons, on conduitor of their open-ing it to public inspection, and giving a set of lectures annually, explanatory of its contents. The prepara-tions are arranged so as to exhibit all the gradations of nature, from the simplest state of animated existence up to man, according to the different functions. It comprehends also a large series of entire animals, skeletons of almost every genus, and other subjects of na-

HURTSICKLE. (So called because it is trouble some to cut down, and sometimes notches the sickle.)

See Centaurea chanus. HUSK. See Gluma.

HUXHAM, JOHN, was born about the end of the 17th century, and practised as a physician, with consider-

good of his death, in 1783. He bequeathed the use of | able reputation, at Plymouth, where he died in 1768 able reputation, at Plymouth, where he died in 1768. His writings display great learning and talent for observation. He kept a register of the weather and prevailing discusses for nearly fluity years, which was published in Latin, in three volumes. He was cartly elected into the Royal Society, and communicated several papers on pathology and morbid anatomy. But his tame rests chiefly upon his "Essay on Fevers," which went through several editions: a dissertation which Well though several enrols, a dissertation being afterward added on the malignant sore throat. HYACINTH. 1. A sub-species of pyramidal zircon. It comes from Ceylon, and is much esteemed as a gem.

A remass from Ceylon, and is much esteemed as a gem.

2. See Hymenthus.

IIYACINTHUS. (Said by the poets to be named from the friend of Apollo, who was turned into this flower.) The name of a genus of plants. Class, Hexandria; Otder, Monogynia.

Hyacisthus Muscari. Muscari. The systematic name of the musk-grape flower, which, according to Ray, possesse emetic and diuretic qualities.

Hyacisthus and squarers. Hare helis. The systematic plants of the musk-grape flower, which, according to Ray, possesse emetic and diuretic qualities.

Ray, possesse emetic and duretic qualities.

HYACHTHES NON SCRIPTUS. Hare-bells. The systematic name of the blue-bells, so common in our hedges in spring. The roots are bulbous; the flowers agreeably seemted. Galen considered the root as a remedy in jaundice. It is ranked among the astringents, but of very interior power.

HYALITE. A transparent siliceous stone, which is often cut into ring-stones, found near Frankfort on the Majue.

HYALO'IDES. (Membrana hyalvides; from ψαλος, glass, and ειδος, likeness.) Membrona arachnoidea. Capsule of the vitreous humour. The transparent membrane enclosing the vitreous humour of the eye, HYBERNACULUM. This is defined by Linneus to be a part of the plant which protects the embryo herb from external injuries.

An organic body which sprouts from the surface of different parts of a plant, enclosing the rudiments of the different parts of a pane, consider of evolving a new in-new shoot, and which is capable of evolving a new individual perfectly similar to the parent. This is a modification of the definition of Gertner.—Thompson.

Hybrida A glibbosity of the spine.

HYBRID. (Hybrida, from υβρις, an injury; because its nature is tainted.) A monstrous production of two different species of animals or plants. In the former it is called mongrel, or mule. Neither the animal nor the score, of the hybrid plants in the score of the hybrid plants. seeds of hybrid plants propagate their species.

seeds of hybrid plants propagate their species.

IIYDARCHIRUS. (From bloop, water, and apport, a joint) Hydarthron. Hydarthros. Spina ventosa of the Arabim writes, Rhazes and Avicenna. White swelling. The white-swelling, in this country, is a peculiarly common and exceedingly terrible disease.

The period of veltom wallier was a property of the pro peculiarly common and exceedingly terrine.

The varieties of white-swelling are very numerous, and might usefully receive particular appellations. matic writers have generally been content with a dis thetion into two kinds, viz. rheumatic and scrofulous. The last species of the disease they also distinguish into such tumours as primarily affect the bones, and then the ligaments and soft parts; and into other cases, in which the ligaments and soft parts become diseased

in which the ligaments and soft parts become diseased before there is any morbid affection of the hones. These divisions, Mr. Samuel Cooper, in his Treatise on the Diseases of the Joints, proves to be not sufficiently computehensive; and the propriety of using the term rhewmatic he thinks to be very questionable. The kneep ankle, wrist, and elbow, are the joints most subject to white-swellings. As the name of the disease invalies the skin is not a tall affording color.

most subject to white-swellings. As the name of the disease implies, the skin is not at all altered in colour. In some instances, the swelling yields, in a certain degree, to pressure; but it never pits, and is almost always sufficiently firm to make an uninformed examiner believe that the bones contribute to the tumour, The pain is sometimes vehement from the very first in other instances, there is bardly the least pain in the beginning of the disease. In the majority of scrotu-lons white-swelings, let the pain be trivial or violent it is particularly situated in one part of the joint, viz either the centre of the articulation, or the head of the tibia, supposing the knee affected. Sometimes the pain continues without interruption; sometimes there are intermissions; and in other instances the pain recurs at regular times, so as to have been called by some writers, periodical. Almost all authors describe the patient as suffering more uneasiness in the diseased part, when he is warm, and particularly when he is in this condition in bed

At the commencement of the disease in the majority

of instances, the swelling is very inconsiderable, or there is even no visible enlargement whatever. In the httle depressions, naturally situated on each side of the patella, a fulness first shows itself, and gradually

spreads all over the affected joint.

The patient, unable to bear the weight of his body on the disordered joint, in consequence of the great in-crease of pain thus created, gets into the habit of only touching the ground with his toos: and the knee being generally kept—a little bent in this manner, soon loses the capacity of becoming extended again. When white-welling is redistrated as the contract of th the capacity of becoming extended again. When white-swellings havelasted a white, the knee is almost always found in a permanent state of flexion. In scrofulous cases of this kind, pain constantly precedes any appearance of swelling; but the interval between the two symptoms differs very much in different subjects. The morbid joint, in the course of time, acquires a vast magnitude. Still the integuments retain their natural colour, and remain unaffected. The enlargement of the articulation, however, always seems greater than it really is, in consequence of the emaciation of the limb both above and bejow the disease.

tion of the limb both above and below the disease

An appearance of blue distended veins, and a shining smoothness, are the only alterations to be noticed in the skin covering the enlarged joint. The shining smoothness seems attributable to the distention, which smoothness seems attributation to the distention, when obliterates the natural furrows and wrinkles of the cutis. When the joint is thus swollen, the integuments cannot be pinched up into a fold, as they could in the state of health, and even in the beginning of the disease. As the distemper of the articulation advances, col-

lections of matter form about the part, and at length The ulcerated openings sometimes heal up; but such abscesses are generally followed by other collections, which pursue the same course. In some cases, these abscesses form a few months after the first affection of the joint; on other occasions, several years elapse, and no suppuration of this kind makes its ap-

pearance.

Such terrible local mischlef must necessarily produce constitutional disturbance. The patient's health be-comes gradually impaired; he loses both his appetite and natural rest and sleep; his pulse is small and frequent; and obstinate debilitating diarrhea and profuse nocturnal sweats ensue. Such complaints are sooner or later followed by dissolution, unless the constitution be relieved in time, either by the amendment or removal of the diseased part. In different patients, however, the course of the disease, and its effects upon the system, vary very much in relation to the rapidity with which they occur.

Rheumatic white-swellings are very distinct diseases from the scrofulous distemper of large joints. In the first, the pain is said never to occur without being attended with swelling. Scrofulous white swellings, on the other hand, are always preceded by a pain, which is particularly confined to one point of the articulation.

In rheumatic cases, the pain is more general, and dif-fused over the whole joint.
With respect to the particular causes of all such white-swellings as come within the class of rheumatic white-sweinings as come within the cases of incentialities ones, little is known. External irritation, either by exposure to damp or cold, or by the application of violence, is often concerned in bringing on the disease; but very frequently no cause of this kind can be assigned for the complaint. As for scrofulous white-swellings, there can be no doubt that they are under the influence of a particular kind of constitution, termed a scrofulous or strumous habit. In this sort temperament, every cause capable of exciting inflammation, or any morbid and irritable state of a large joint, may bring such disorder as may end in the severe disease of which we are now speaking.

In a man of a sound constitution, an irritation of the kind alluded to might only induce common healthy inflammation of the affected joint.

In scrofulous habits, it also seems probable that the irritation of a joint is much more easily produced than in the other constitutions; and no one can doubt that, when once excited in scrotalous habits, it is much more dangerous and difficult of removal than in other

(Hydatis; from νδωρ, water. very singular animal, formed like a bladder, and dis-tended with an aqueous fluid. These animals are sometimes formed in the natural cavities of the body,

frequently in the liver, kidney, and lungs, where they produce discussed actions of those viscera. Cullen arranges these affections in the class Localits, and order Tumores. If the vires natura medicatrices are not sufficient to effect a cure, the patient mostly falls a sacrifice to their ravages. Dr. Baillie gives the following interesting account of the hydards, as they are sometimes found in the liver—"There is no gland in the haman body in which hydatels are so frequently found as the liver. from the liver, except the kidneys, where they are still more common. Hydatids of the liver are usually found in a cyst, which is frequently of considerable size, and is formed of very firm materials, so as to give to the touch almost the feeling of cartilage. This cyst, when cut into, is obviously laminated, and is much when cut into, is obviously laminated, and is much thicker in one liver than another. In some livers it is not thicker than a shilling, and in others it is near a quarter of an inch in thickness. The lamina which compose it are formed of a white matter, and on the compose it are formed of a white matter, and on the inside there is a lining of a pulpy substance, like the coagulable lymph. The cavity of the cyst, I have seen, in one instance, subdivided by a partition of this pulpy substance. In a cyst may be found one hydatid, or a greater number of them. They lie loose in the cavity, swimming in a fluid; or some of them are attached to the side of the cyst. They consist of a round hag, which is composed of a white, semi-apaque, pulpy matter, and contain a fluid capable of coagulation. Although the common colour of hydatids be white, yet I have occasionally seen some of a light sunder colour. The bag of the hydatid consists of two amber colour. The bag of the hydatid consists of two lamina, and possesses a good deal of contractile power ramma, and possesses a good uear of contracture power in one hydatid this coat, or bag; is much thicker and more opaque than in another; and even in the same hydatid, different parts of it will often differ in thickness. On the inside of a hydatid, smaller ones are sometimes found, which are commonly not larger than the latter than the common that the common than the common than the common than the common that the common than the common than the common than the common that the common than the common than the common than the common that the common than the common than the common than the common that the common than the common that the common than the common than the common than the common that the common than the common that the common than the common than the common than the common that the common than the common than the common that the common that the common than the common that sometimes found, which are commonly not larger than the heads of pins, but sometimes they are even larger in their size than a gooseberry. These are attached to the larger hydatid, either at scattered irregular dis-tances, or so as to form small clusters; and they are also found floating loose in the liquor of the larger hydatids. Hydatids of the liver are often found un-connected with each other; but sometimes they have been said to enclose each other in a series, like pillboxes. The most common situation of hydalds of the liver is in its substance, and enclosed in a cyst; but they are occasionally attached to the outer surface of the liver, hanging from it, and occupying more or less of the general cavity of the abdomen. The origin and real nature of these hydalds are not fully ascertained; it is extremely probable, however, that they are a sort of imperfect animalcules. There is no doubt at all, that the hydatids in the livers of sheep are animalcules; they have been often seen to move when taken out of the liver and put into warm water; and they retain this power of motion for a good many hours after a sheep has been killed. The analogy is great between hydatids in the liver of a sheep and those of the human subject. In both, they are contained in strong cysts, and in both they consist of the same white pulpy matter. There is undoubtedly some difference between them in simplicity of organization; the hydatid in the human liver being a simple uniform bag, and the hydatid in that of a sheep having a neck and mouth appendant to the bag. This difference need be no considerable objection to the opinion above stated. Life may be conceived to be attached to the most simple form of organization. In proof of this, hydatids have been found in the brains of sheep, re sembling almost exactly those in the human liver, and which have been seen to move and therefore are cer-tainly known to be animalcules. The hydatids of the human liver, indeed, have not, as far as I know, been found to move when taken out of the body and put found to move when taken out of the body and put into warm water; were this to have happened, no uncertainty would remain. It is not difficult to see a good reason why there will hardly occur any proper opportunity of making this experiment. Hydatids are not very often found in the liver, because it is not a very frequent disease there; and the body is allowed to remain for so long a time after death before it is examined, that the hydatids must have lost their hying principle, even if they were animaleules, and it anprinciple, even if they were animalcules, and it an pears even more difficult to account for their produc-tion, according to the common theory of generalion. as the abdomen and ventricles of the brain, but more than for that of intestinal words. We do not get rid

of the difficulty by asserting, that the hydatids in the I syphilis. human liver are not living animals, because in sheep they are certainly such, where the difficulty of account-ing for their production is precisely the same."

2. The name of a tumour, the contents of which is a water-like fluid.

d water-like film.

HYDERUS. (From υδερος, ley-drops; from υδωρ, water.) An increased flow of urme.

HYDRAGOGUE. (Hydragogus; from υδωρ, water, and αγω, to drive out.) Medicines are so termed which possess the property of increasing the secretions or excretions of the body so as to cause the removal of water from any of its cavities, such as ca-

HYDRARGYRATUS. Of or belonging to mer-

HYDRA'RGYRUM. ('Υδραργυρος; from υδωρ, water, and αργυρος, silver: so named from its having a resemblance to fluid silver.) Hydrargyrus. The name in the London Pharmacopoula, and other works,

for mercury. See Mercury.

HYDRARGYRUM PRÆCIPITATUM ALBUM. White pre HYDRARGERUM PRECIPITATION ALBUM. White precipilated mercury. Calx hydrargyri alba. Take of
oxymuriate of mercury, half a pound; inuriate of
aumonia, four ounces; solution of subcarbonate of
potassa, half a pint; distilled water, four pints. First
dissolve the muriate of ammonia, then the oxymuriate
of mercury, in the distilled water, and add thereto the
solution of subcarbonate of potassa. Wash the precipitated powder until it becomes tasteless; then dry
it. It is only used externally, in the form of ointment,
the present of the property of the present of the presen

as an application in some cutaneous affections.
Hypharcyrum purificatum. Take of mercury, by
weight, six pounds; iron filings, a pound. Rub them
together, and distil the mercury from an iron retort,
by the application of heat to it. Purified quicksilver is sometimes administered in its metallic state, in doses of an ounce or more, in constipation of the

Hydrargyrus acetatus. Mercurius acetatus; Pdula Keysers. By this preparation of mercury, the celebrated Keyser acquired an immense fortune in curing the venereal disease. It is an acetate of mercury, and therefore termed hydrargyri acctas in the new chemical nomenclature. The dose is from three to five grains. Notwithstanding the encomium given

to five grains. Notwithstanding the encomium given to it by some, it does not appear to be so efficacious as some other preparations of mercury.

Hydrargrum cun creat. Mercury with chalk. Mercurius alkakizatus. Take of purified mercury, by weight, three ounces; prepared chalk, five ounces. Rub them together, until the metallic globules disappear. This preparation is milder than any other mercurial, except the sulphuret, and does not so easily act upon the bowels; it is therefore used largely by many practitioners, and possesses alterative properties in cutaneous and venereal complaints, in obstructions of the viscera, or of the prostate gland, given in the dose of Oss to 3ss, two or three times a day.

Hydrargrus phosphorarus. This remedy has been observed to heal inveterate venereal ulcers in a very short time, any, in the course of a very few days.

been observed to hear investerate venerear discussion a very short time, may, in the course of a very few days, particularly those about the pudenda. In venereal inflammations of the eyes, chancres, rheumatisms, and chronic eraptions, it has proved of eminent service. Upon the whole, if used with necessary precaution, and in the hands of a judicious practitioner, it is a medicine mild and gentle in its operation. The classes is arrival; it describes the preference over other meamedicine mild and gentle in its operation. The class in which it descryes the preference over other meacurial preparations, are these: in an inveterate stage of syphilis, particularly in persons of torpid insensible fibres; in cases of exostosis, as well as obstractions in the lymphatic system; in chronic complaints of the skin. The following is the formula. R. Hydragyri phosphorati, g. iv. Corticis chamanomi in pulverent criti, gr. xiv. Sacchari purif. 3 ss. Misce. The whole to be divided into eight equal parts, one of which is to be taken every morning and expaning, unless salivation be taken every morning and evening, unless salivation takes place, when it ought to be discontinued. Some patients, however, will bear from one to two grams of the phosphate of quicksilver, without inconvenience

HYDRARGYRUS PRECIPITATUS CINEREUS. This preparation is an oxide of mercury, and nearly the same paration is an oxine of interests, and the London with the hydrargyri oxydum cincreton of the London binariae or housing of housing acopies. It is used as an alterative in cases of sharmacoppeia. It is used as an alterative in cases of solar four pounds. Boil the mercury with the sulphinarian arising from an admixture of rheumatism with with the hydrargyri oxydum cincreum of the London pharmacopæia. It is used as an alterative in cases of

It may be substituted for the hydrargyrus sulphuratus ruber, in funnigating ozena, and venoreal ulcerated sore throat, on account of its not yielding any vapour offensive to the patient.

Hyperrapers verterionarties. Turpethamminerale; Mercureus emelicus flavus; Nulphas hydragyri. Formerly this medicine was in more general use than in the present day. It is a very powerful and active alterative when given in small doses. Two grains set on the stomach so as to produce violent vomitings. It is recommended as an errhine in cases of amaurosis. In combination with antimony it acts powerfully on

the skin.

Hydrakagyri nyfrico-oxyddm. Nitrico-oxyddm
hydrargyri: Hydrargyrus nitratus raher; Mercurus corrossus raher; Mercurius pracipitatus carrosius. Nitric oxide of mercury. Red precipitate.
Take of purified mercury, by weight, three pounds:
of nitric acid, by weight, a pound and a half: of distilled water two pints. Mix in a glass vessel, and boil
the mixture in a sand-bath, until the mercury be dissolved, the water also evaporated, and a white mass
remain. Buth this into powder, and out it into another. solved, the water also evaporated, and a white mass remain. Rub this into powder, and put it into another shallow vessel, then apply a moderate heat, and raise the fire gradually, until red vapour shall cease to rise. This preparation is very extensively employed by surgeons as a stimulant and escharotic, but its extraordinary activity does not allow of its being given internal and excharotic being given internal control of the second of the seco nary activity does not allow of its being given invariantly. Firstly levigated and mixed with common cerates, it is an excellent application to indolent ulcers, especially those which remain after burns and seadles, and those in which the granulations are indolent and flabby. It is also an excellent caustic application to chancres.

cation to chancres.

IYBRARGYRI OXYDUM CINEREUM. Orydum hydrargyri nogrum. The gray or black oxide of mercury. It has received several names; Æthiops per se; Putwis mercurialis einercurs; Mercurius cinercus; Turpethum nigrum; Mercurius procipitatus niger. Take of submuriate of mercury, an onnee; limewater, a gallom. Boil the submuriate of mercury in the linewater, constantly stirring, until a gray oxide of mercury is separated. Wash this with distilled water, and then dry it. The dose from gr. ii. to x. There are four other preparations of this oxide in high estimation:

mation

One made by rubbing mercury with mucilage of gum arabic. Plenk, of Vienna, has written a treatise on the superior efficacy of this medicine. It is very troublesome to make; and does not appear to possess more virtues than some other mercurial preparations. more virtues than some other mercurial preparations. Another made by triurating equal parts of sugar-and mercury together. The third, composed of honey or liquorice and purified mercury. The fourth is the blue mercurial ointment. All these preparations possess anticliminic, anisyphilitic, alterative, sialagogue, and deobstruent virtues, and are exhibited in the cure of worms, syphilis, amenorrhea, diseases of the skin, chronic diseases, obstructions of the viscera, &c.

Hydrakeyri oxydum nigrum. See Hydrargyri

oxydum cinereum.

Hydrargyri oxydum Rubrum. Oxydum hydrar gyri rubrum; Hydrargyrus calcinatus. Red oxide of mercury. Take of purified mercury by weight a or inceeding. Take of pintude increasing by weight a pound. Pour the mercury into a glass matrass, with a very narrow mouth and broad bottom. Apply a heat of 600° to this vessel, without stopping it, until the mercury has changed into red scales; then reduce these to a very fine powder. The whole process may probably require an exposure of six weeks. This proprobably require an exposure of six weeks. This pre-paration of mercury is given with great advantage in the cure of syphilis. Its action, however, is such, when given alone, on the bowels, as to require the addition of opium, which totally prevents it. It is also given in conjunction with opium and campbine, as a diaphoretic, in chronic pains and diseases of long con-tinuance. It is given as an alterative and diaphoretic from gr. ss. to ii. every night, joined with camphor and opium, each gr. one-fourth or one-half. It is violently emetic and cathartic in the dose of gr. iv. to

gr. v.

Hydrargyri oxymerias. Oxymurias hydrargyri;
Hydrargyrus mariatus. Oxymuriate of mercury.
Take of purified mercury by weight two pounds, suf-

shall be left dry. Rub this, when it is cold, with the muriate of soda in an earthen-ware mortar: then sublime it in a glass cucurbit, increasing the heat gra-dually. An extremely acrid and violently poisonous

Given internally in small doses properly diluted, and Given internally in small doses properly diluted, and never in the formor pill, it possesses antisyphilitic and alterative virtues. Externally, applied in form of lotion, it facilitates the healing of veneral sores, and cures the itch. In gargles for veneral ulcers in the throat, the oxymuriate of mercury gr. iii. or iv. barley decoction by, honey of roses \(\frac{1}{2}\)i, proves very serviceable; also in cases of tetters, from gr. v. to gr. x. in water \(\frac{1}{2}\)in the films and ulceration of the servers \(\frac{1}{2}\)i. bj.; and for films and ulcerations of the cornea, gr. i.

to water 3iv.

Mr. Pearson remarks, that "when the sublimate is given to cure the primary symptoms of syphilis, it will sometimes succeed; more especially, when it produces a considerable degree of soreness of the gums, and the common specific effects of mercury in the animal system. But it will often fail of removing even a recent chancre; and where that symptom has vanished dur-ing the administration of corrosive sublimate, I have known, says he, a three months' course of that medicine fail of securing the patient from a constitutional affection. The result of my observation is, that simple affection. The result of my observation is, that simple mercury, calomel or calcined mercury, are preparations more to be confided in for the cure of primary symptoms, than corrosive sublimate. The latter will often check the progress of secondary symptoms very conveniently, and I think it is peculiarly efficacious in relieving venereal pains, in healing ulcers of the throat, and in promoting the desquamation of eruptions. Yet even in these cases it never confers permanent benefit; for new symptoms will appear during the use of it; and on many occasions it will fail of affording the least advantage to the patient from first to last. I do, sometimes, indeed, employ this preparation in veneral least advantage to the patient from first to last. I do, sometimes, indeed, employ this preparation in veneral cases; but it is either at the beginning of a mercurial course, to bring the constitution under the influence of mercury at an early period, or during a course of intention, with the intention of increasing the action of emple mercury. I sometimes also prescribe it after the conclusion of a course of friction, to support the mercurial induence in the habit, in order to guard against the dauger of a relapse. But on no occasion whatever do I think it safe to confide in this preparation single, and uncombined for the curse of any truly tion singly and uncombined for the cure of any truly venereal symptoms."

A solution of it is ordered in the pharmacopæia, A solution of it is ordered in the phrimacopeia, termed Liquor hydraxygri oxymuriates. Solution of oxymuriate of mercury. Take of oxynuviate of mercury, eight grains; distilled water, fifteen fluid ounces; rectified spirit, a fluid ounce. Dissolve the oxymuriate of mercury in the water, and add the spirit. This solution is directed in order to facilitate the administration of divisions of the grain of this active medicine. Half an unnea of its contains and further.

medicine. Half an ounce of it contains one-fourth of a grain of the salt. The dose is from one drachm to

half an ounce.

half an ounce.

Hydrardyri submorias. Submurias hydrargyri.

Submuriate of nercury. Calemelas. Calomel. Take of oxymuriate of nercury, a pound; purified mercury, by weight nine ounces. Rub them together until the metallic globules disappear, then sublime; take out the sublimed mass, and reduce it to powder, and subthe sublimed mass, and reduce it to powder, and sublime it in the same nanner twice more successively.

Lastly, bring it into the state of very fine powder by
the same process which has been directed for the preparation of chalk. Submurfate, or mild muriate of
mercury, is one of the most useful preparations of
mercury. As an anti-venereal it is given in the dose
of a grain night and morning, its usual determination
to the intestines being prevented, if necessary, by
optium. It is the preparation which is perhaps most
usually given in the other diseases in which mercury
is annihymat, as in affections of the liver, or neighbouris employed, as in affections of the liver, or neighbour-ing organs, in cutaneous diseases, chronic rheumatism, tetanus, hydrophobia, hydrocephalus, and febrile affec tions, especially those of warm climates. It is em-ployed as a cathartic alone, in doses from v. to xii. grains, or to promote the operation of other purgatives. Its authermittic power is justly celebrated; and it is perhaps superior to the other mercurials in assisting the operation of diuretics in dropsy. From its specific gravity it ought always to be given in the form of a

Hydrardyri sulphuretum ntorum. Hydrargy-rus cum sulphure. Ethiop's mineral. Take of purfied mercury, sublimed sulphur, each a pound, by weight. Rub them together, till the metallic globules disappear. Some suppose that the mercury is oxidized in this process, but that is not confirmed by the best experiments. The mercury, by this admixture of the sulphur, is deprived of its salivating power, and may be administered with safety to all ages and constitutions, as an anthelminic and alterative. Hydrardyri sulphuretum rubbum. Red sul-

Hydrargyri sulphurettem rubrum. Red sulphuret of mercury. Hydrargyrus sulphuratus ruber; Minium purum; Minium Gracorum; Magnes epilepsia; Atzemafor; Annion; Azamar. Vitruvius calls it ankhraz. A red mineral substance composed of mercury combined with sulphur. It is either native or factitious. The native is an ore of quicksilver moderately compact, and of an elegant striated red colour. It is found in the dutchy of Deuxponts, in the Palatinate, in Spain, South America, &cc. It is called native vermilion, and cinnabar in flowers. The factitious is thus prepared: "Take of purified mercury, by weight forty ounces; sublimed sulphur, eight ounces. Having melted the sulphur over the fire, mix in the mercury, and as soon as the mass begins to swell, remove the vessel from the fire, and cover it with considerable force to prevent inflammation; then rub the mass into HYDRARGYRI SULPHURETUM RUBRUM. vessel from the fire, and cover it with considerable force to prevent inflammation; then rub the mass into powder, and sublime." This preparation is esteemed a mild mercurial alterative, and given to children in small doses. Hoffman greatly recommends it as a sedative and antispasmodic. Others deny that cinashar, taken internally, has any medicinal quality; and their opinion is grounded on the insolubility of it in any menstrum. In surgery its chief and almost only use is in the administration of quicksilver by fumigation. Thus employed it has proved extremely serviceable in venereal cases. Ulcers and excrescences about the venerear cases. Utcers and excrescences about the pudendum and anus in women, are particularly benefited by it; and in these cases it is most conveniently applied by placing a red hot heater at the bottom of a night stool-pan, and after sprinkling on it a few grains of the red sulphuret of quicksilver, placing the patient on the stool. To fumigate ulcers in the throat, it is necessary to receive the fumes on the part affected, throat the type of a fumeal. By supposite the statement of the part affected, necessary to receive the tunes of the part enterior, through the tube of a funnel. By enclosing the patient naked in a box, it has on some occasions been contrived to fumigate the whole body at once, and in this way the specific powers of the quicksilver have been very

rapidly excited.

rapidly excited.

This mode of curing the lues venerea is spoken of as confirmed; and the subject has of late years been revived in a treatise by Sabonette, and by trials made in Bartholomew's hospital.

Mr. Pearson, from his experiments on mercurial funigation, concludes, that where checking the progress of the disease suddenly is an object of great moment, and where the hely is covered with pleers or large of the disease suddenly is an object of great moment, and where the body is covered with ulcers or large and numerous eruptions, and in general to ulcers, fungi, and excrescences, the vapour of mercury is an application of great efficacy and utility; but that it is apt to induce a ptyalism rapidly, and great consequent debility, and that for the purpose of securing the constitution against a relapse, as great a quantity of mercury must be introduced into the system, by inunction, as if no funigation had been employed.

HYDRATE. Hydroxure. Hydro-oxide. A compound of oxygen, in a definite proportion, with water. HYDRELÆUM. (From volon, water, and chator, oil.) A mixture of oil and water.

HYDRENTEROCE'LE. (From volon, water, cr-7500), an intestine, and kn/hy, a tumour.) A hydrocele, or dropsy of the scrotum, attended with a rupture.

ture.

HYDRIODATE. A salt consisting of the hydriodic acid, combined in a definite proportion with an oxide.

HYDRIODIC ACID. Acidum hydriodicum. A gaseous acid in its Insulated state. "If four parts of iodine be mixed with one of phosphorus, in a small class retori, applying a gentle heat, and adding a few drops of water from time to time, a gas comes over, which must be received in the mercurial bath. Its specific gravity is 44; 100 cube inches, therefore, weigh 134.9 grs. It is elastic and invisible, but has a smell somewhat similar to that of muriatic acid. Mercury after some time decomposes it, seizing its lodine, and leaving its hydrogen, equal to one-half the original bulk, at liberty. Chlorine, on the other hand,

E e

unites to its hydrogen, and precipitates the iodine. From these experiments, it evidently consists of vapour of iodine and hydrogen, which combine in equal vo-lumes, without change of their primitive bulk. Hy-driodic acid is partly decomposed at a red-heat, and the decomposition is complete if it be mixed with oxy-

driodic acid is partly decomposed at a rec heat, and the decomposition is complete if it be mixed with oxygen. Water is formed, and iodine separated.

We can easily obtain an aqueous hydriodic acid very economically, by passing sulphuretted hydrogen gas through a mixture of water and iodine in a Woolfe's bottle. On heating the liquid obtained, the excess of sulphur flies off, and leaves liquid hydriodic acid. At temperatures below 2620, it parts with its water; and becomes of a density = 1.7. At 2620 the acid distils over. When exposed to the air, it is speedily decomposed, and iodine is evolved. Concentrated sulphuric and nitric acids also decompose it. When poured into a saline solution of lead, it throws down a fine orange precipitate. With solution of peroxide of mercury, it gives a red precipitate; and with that of silver, a white precipitate insoluble in ammonia. Hydriodic acid may also be formed, by passing hydrogen over iodine at an elevated temperature.

The compounds of hydriodic acid with the salifiable bases may be easily formed, either by direct combinations.

The compounds of hydriodic acid with the salifiable bases may be easily formed, either by direct combination, or by acting on the basis in water, with iodine. The latter mode is most economical. Upon a determinate quantity of iodine, pour solution of potassa or soda, till the liquor ceases to be coloured. Evaporate to dryness, and digest the dry salt in alkholo of the specific gravity 0.810, or 0.820. As the iodate is not soluble in this liquid, while the hydriodate is very soluble, the two salts easily separate from each other. After having weaked the iodate two or three times with all having washed the iodate two or three times with alhaving washed the iodate two or three times with al-kohol, dissolve it in water, and neutralize it with ace-tic acid. Evaporate to dryness, and digest the dry salt in alkohol, to remove the acetate. After two or three washings, the iodate is pure. As for the alkohol con-taining the hydriodate, distil it off, and then complete the neutralization of the potassa, by means of a little hydriodic acid separately obtained. Sulphorous and muriatic acids, as well as sulphuretted hydriogen, pro-duce no change on the hydriodates, at the usual tem-recature of the air. perature of the air.

Chlorine, nitric acid, and concentrated sulphuric, in-

Chlorine, nitric acid, and concentrated sulphuric, instantly decompose them, and separate the iodine.

With solution of silver, they give a white precipitate insoluble in annuonia; with the permitrate of mercury, a greenish-yellow precipitate; with corrosive sublimate, a precipitate of a fine orange-red, very soluble in an excess of bydriodate; and with nitrate of lead, a precipitate of an orange-yellow colour. They dissolve iodine, and acquire a deep reddish-brown colour.

Hydriodate of potassa, or in the dry state, iodide of potassium, yields crystals like sea-salt, which melt and sublime at a red-heat. This salt is not changed by being heated in contact with air. 100 parts of water at 649, dissolve 143 of it. It consists of 15.5 iodine, and 5 potassium.

Hydriodate of soda, called in the dry state iodide of sodium, may be obtained in pretty large flat rhomboidal prisms. It consists, when dry, of 15.5 iodine + 3 sodium.

Hydriodate of barytes crystallizes in fine prisms, similar to muriate of strontiles. In its dry state, it consists of 15.5 iodine + 8.75 barium.

Bists of 15.5 lottine + 8.15 barlum.

The hydriodates of time and strontites are very soluble; and the first exceedingly deliquescent.

Hydriodate of ammonia results from the combination of equal volumes of ammoniacal and hydriodic gases; though it is usually prepared by saturating the liquid acid with ammonia. It is nearly as volatile as sal ammoniac; but it is more soluble and more delicusement it erystallizes in cubes.

guescent. It crystallizes in cubes.

Hydriodate of magnesia is formed by uniting its constituents together; it is deliquescent, and crystal-lizes with difficulty.—It is decomposed by a strong

Hydriodate of zinc is easily obtained, by putting iodine into water with an excess of zinc, and favouring their action by heat. When dried it becomes an

All the nydriodates nave the property of dissolving abundance of iodine; and thence they acquire a deep reddish-brown colour. They part with it on boiling.

Or when exposed to the air after being dried."

HYDRO-CHLORIC ACID. Muriatic acid; a com-

HYDRO-CHLORIC ACID. Muriatic acid; a compound of chlorine and hydrogen. See Murutic acid. HYDRO-CYANIC ACID. See Prussic acid. HYDRO-FLUORIC ACID. Acidum hydrofluoricum. This is procured by distilling, in lead or silver, a mixture of one part of the purest fluor spar, in fine powder, with two of sulphuric acid. The heat required is not considerable; sulphate of lime remains in the retort, and a highly acrid and corrosive liquid passes over, which requires the assistance of ice for its condensation.

HYDRO-SULPHURIC ACID. The aqueous solution of sulphuretted hydrogen, is so called by Gay

HYDRO-SULPHUROUS ACID. When three vohimes of sulphuretted hydrogen gas and two of sulphurous acid gas, both dry, are mixed together over mercury, they are condensed into a solid orange-yellow hody, which Dr. Thompson calls hydro-sulphurous

HYDRO'A. (From υδωρ, water.) A watery pus-

HYDROCARBONATE. See Carburetted hydro-

gen gas. HYDROCA'RDIA. gcit gas.

HYDROCA'RDIA. (From võup, water, and καρδta, the heart.) Hydrocordis. Hydrops pericardii.

Dropsy of the heart. Dropsy of the pericardium. A
collection of fluid in the pericardium, which may be collection of fluid in the pericardiam, which may be either coagulable I jumph, serum, or a puriform fluid. It produces symptoms similar to those of hydrotherax, with violent palpitation of the heart, and mostly an internation pulse. It is incurable.

HYDROETIE. (From volue, water, and kn/h, a tumour.) The term hydroccle, used in a literal sense,

tumour.) The term hydrocete, used in a literal sense, means sary tumour produced by water; but surgeons have always confined it to those which possess either the membranes of the scrotum, or the coats of the testicle and its vessels. The first of these, viz. that which has its seat in the membranes of the scrotum, andsarer antegomentorum, is common to the whole bag, and to all the cellular substance which loosely bag, and to an the extense states which loosely convelopes both the testers. It is, strictly speaking, only a symptom of a disease, in which the whole habit is most frequently more or less concerned, and very seldom affects the part only. The latter, or that which occupies the coats immediately investing the testicle and its vessels, hydrocele tunica vaginalis, is absolutely local, very seldom affects the common membrane of the scrotum, generally attacks one side only; and is frequently found in persons who are perfectly free from all other complaints

The anasarca integumentorum retains the impression of the finger. The vaginal hydrocele has an un-

The hydrocele of the tunica vaginalis testis is a morbid accumulation of the water separated on the internal surface of the tunica vaginalis, to moisten or lubricate the testicle.

From its first appearance, it seldom disappears or diminishes, but generally continues to increase, some-times rapidly, at others more slowly. In some it grows to a paintful degree of distention in a few months: in others, it continues many years with little disturbance.

to a paintin degree of distention in a new months; in others, it continues many years with little disturbance. As it enlarges, it becomes more tense, and is sometimes transparent; so that if a candle is held on the opposite side, a degree of light is perceived through the whole tumour; but the only certain distinction is the fluctuation, which is not found when the disease is a hernia of the omentum, or intestines, or an inflammatory or scirribous tumour of the testicle.

HYDROCELE ONSTATA. Encysted hydrocele of the spermatic cord, resembles the common hydrocele; but the tumour does not extend to the testicle, which may be felt below or behind it, while, in the hydrocele of the vaginal coat, when large, the testicle cannot be discovered. In this disease, also, the penis is not huried in the tumour. Sometimes the fluid is contained in two distinct cells; and this is discovered by little contractions in it. It is dissinguished from the anasarcous hydrocele by a sensible fluctuation, and the want of the inelastic pitting; from hernia, by its beginning below, from its not receding in a horizontal position, and not enlarging by coughing and sneezing.

Hydrocele Feneral Spermatric, or hydrocele of

HYDROCELE FUNIOULI SPERMATICI, or hydrocele of the spermatic cord. Anasarcous hydrocele of the spermatic cord sometimes accompanies ascites, and, at other times, it is found to be confined to the cellular substance, in or about the spermatic cord. 'The causes | kind of dropsy is the same; viz. such a state of the of this disease may be obstructions in the lymphatics. leading from the part, in consequence of seirrhous af-lections of the abdominal viscera, or the pressure of a truss applied for the cure of hernia.

When the affection is connected with anasarca in other parts, it is then so evident as to require no par-ticular description. When it is local it is attended with a colourless tumour in the course of the spermatic cord, soft and inclusive to the touch, and unaccompanied with fluctuation. In an erect position of the body, it is of an oblong figure; but when the body is recumbent, it is flatter, and somewhat round. Generally it is no longer than the part of the cord which lies in the groin; though sometimes it extends as far as the testicle, and even stretches the scrotum to an uncommon size. By pressure a great part of the swelling can always be made to recede into the abdomen. It instantly, however, returns to its former situation, on the pressure being withdrawn.

HYDROCELE PERITONEI. The common dropsy of

HYDROCELE SPINALIS. A watery swelling on the

Vertenas.

HYDROCE'PHALUS. (From νόωρ, water, and κεφαλη, the head.) Hydrocephatum; Hydrencephatus. Dropsy of the brain. Dropsy of the head. A genus of disease arranged by Cullen in the class Cacherice, and order Intumescentia. It is distinguished by

1. Hydrocephalus externus, is a collection of water between the membranes of the brain.

Detween the membranes of the oratin.

2. Hydrocephalus interius, is when a fluid is collected in the ventricles of the brain, producing dilatution of the pupils, apoplexy, &c. Sec elpoplexy. At assometimes of a chronic nature, when the water has been known to increase to an enormous quantity, effecting a diastasis of the bones of the head, and an

Pain in the head, particularly across the brow, stuper, dilatation of the pupils, nausea, vomiting, preternatural slowness of the pulse, and convulsions, are the pathognomonic symptoms of this disease, which have

pathognomonic symptoms of this disease, which have been laid down by the generality of writers.

Hydrocephalus is almost peculiar to children, being rarely known to extend beyond the age of twelve or fourteen; and it seems more frequently to adse in those of a serofulous and rickety habit than in others. It is an affection which has been observed to pervade families, affecting all or the greater part of the children at a certain period of their life; which seems to show that, in many cases, it depends more on the general habit, than on any local affection or accidental cause.

The disease has generally been supposed to arise in consequence either of minures done to the brain itself.

consequence either of injuries done to the brain itself, considerace either of implies done to the brain itself, by blows, falls, &c. from scirrhous timouts or excrescences within the skull, from original landy or weakness in the brain, or from general debility and an innovenished state of the blood.

With respect to its proximate cause, very opposite opinious are still entertained by medical writers, which,

m conjunction with the equivocal nature of its symptoms, prove a source of considerable embarrassment to the young practitioner. Some believe it to be inflammatory, and bleed largely.

Dr. Withering observes, that in a great many cases,

if not in all, congestion, or slight indamination, are the

precursors to the aqueous accumulation.

Dr. Rush thinks that, instead of its being considered an idiopathic dropsy, it should be considered only as an effect of a primary inflammation or congestion of blood in the brain. It appears, says he, that the dis-ease, in its first stage, is the effect of causes which proease, in its first stage, is the effect of causes which produce a less degree of that inflammation which constitutes phrenits; and that its second stage is a less degree of that effusion which produces serous apoplexy in adults. The former partakes of the nature of the chrone inflammation of Dr. Cudien, and the asthenic inflammation of Dr. Brown.—There are others, again, who view the subject in a very different light. Dr. Darwin supposes inactivity, or torpor of the absorbent vessels of the brain, to be the cause of hydrocephadus internus; but he confesses, in another part of his work, that the torpor of the absorbent vessels may often exist as a secondary effect. often exist as a secondary effect.

Dr. Whytt, who has published an ragonious treatise

on the disease, observes, the immediate cause of every

parts as makes the exhalent arteries throw out a greater quantity of fluids than the absorbents can take up-From what he afterward mentions, he evidently considers this state as consisting in debility.

As many cases are accompanied with an increased or inflammatory action of the vessels of the brain, and of unanimation y action of the vessels of the brain, and others again are observed to prevail along with general anasarca, it seems rational to allow, that hydrocephaniss, in some instances, the consequence of congestion, or slight inflammation of the brain; and that, in others, it arises either from general debility or topical laxity. In admitting these as incontrovertible facts, Dr. Thomas is, at the same time, induced to suppose, that the cases of it occurring from mere debility are

that the cases of it occurring from mere geomy are by no means frequent.

The great analogy subsisting between the symptoms which are characteristic of inflammation, and those which form the first stage of the acute species of hydrocephalus, (for the disease, as already observed, has cephalus, (for the disease, as already observed, has been divided into the chronic and acute by some writers,) together with the good effects often consequent on blood-letting, and the inflammatory appearance which the blood frequently exhibits, seems to point out strong proof of the disease being, in most instances, an active inflammation, and that it rarely occurs from mere debitity, us a primary cause.

The progress of the disorder-has, by some, been divided into three stages.

When it is accompanied by an ingressed or inflam-

When it is accompanied by an increased or inflammatory action of the brain, as not uncommonly hap-pens, its first stage is marked with many of the symppens, its managers marked with many of the symptoms of pyrexia, such as languor, inactivity, loss of appetite, nausea, vomiting, parched tongue, hot, dry skin, flushing of the face, headache, throbbing of the temporal arteries, and quickened palse; which symptoms always suffer an exacerbation in the evening, but

towards morning become milder

When it is unaccompanied by any inflammatory action of the brain, many of these appearances are not to be observed. In these cases, it is marked by a dejection of countenance, loss of appetite, pains over the eyes, soreness of the integaments of the cranium to the touch, propersity to the bed, aversion to being moved, make a multi-distribution. The disease, at length, makes a remurkedde mansition, which denotes the commencement of its second stage. The child screams out, without being able to assign any cause; its skep is much disturbed; there is a considerable dilutation of the pupils of the eyes, without any contraction on their being expassed to light: lethargic topper, with strabismus, or perhaps double vision easues, and the pulse becomes slow and unequal.

In the third stage, the pulse returns again to the the eyes, soreness of the integaments of the cranium to

In the third stage, the pulse returns again to the febrile state, becoming uncommonly quick and variable; and coma, with convulsions, ensue. When the accumulation of water is very great, and the child young, the sutures recede a considerable way from each other, and me head, towards the end, becomes

When recoveries have actually taken place in hydrocephalus, we ought probably to attribute more to the efforts of nature than to the interference of art. It

is always to be regarded as of difficult cure.

is always to be regarded as of difficult cure.

An accumulation of water in the ventricles of the brain, is one of the most common appearances to be observed on dissection. In different cases this is accumulated in greater or less quantities. It sometimes amounts only to a few ounces, and occasionally to some pints. When the quantity of water is considerable, the fornix is raised at its anterior extremity, in consequence of its accumulation, and an immediate opening of communication is thereby formed between the lateral ventricles. The water is of a purer colour and more limpid than what is found in the dropsy of the thorax, or abdomen. It appears, however, to be generally of the same nature with the water that is accumulated in these cavities. In some instances, the water in hydrocephalus contains a very small proportion of coagulable matter, and in others it is entirely tion of coagulable matter, and in others it is entirely

from it.

When the water is accumulated to a very large quantity in the ventricles, the substance of the brain appears to be a sort of pulpy bag, containing a fluid. The skull, upon such occasions, is very much enlarged in its size, and altered in its shape; and it appears exceedingly large in proportion to the face.

moving the scale, the bones are found to be very thin, and there are frequently broad spots of membrane in the bone. These appearances are, however, only to be observed where the disease has been of some years' continuance.

In some cases, where the quantity of water collected In some cases, where the quantity of water consistent is not great, the substance of the brain has appeared to be indurated, and in others softened. At times, the organ has been found goiged with blood: collections also of a viscid tenacious matter have been discovered in cysts, upon its external surface, and tumours have

been found attached to its substance.

The treatment must be prompt and active to give a tolerable chance of success. The general indications are, in the first stage, to lessen the inflammatory action, afterward to promote absorption. Should the patient be about the age of puberty, of a plethoric habit, and the symptoms run high at the beginning, it will be the symptoms run high at the beginning, it will be proper to take some blood, especially from the temporal artery, or the jugular vein; but, if younger, or the disease more advanced, a sufficient quantity may be withdrawn by leeches, applied to the temples, or in the direction of the sutures. The bowels must then be thoroughly evacuated by some active cathartic, as they are usually very torpid, calomel with scammony, or jalap, for example; and, in the progress of the complaint, this function must be kept up with some degree of activity. Eur this purpose, calomel may be given of activity. For this purpose, calomel may be given in divided doses, or some other mercurial preparation, which may not run off too rapidly, producing mere watery stools, but regularly clear out the bowels, as well as the liver, and promote the other secretions. Besides, mercury is the most powerful remedy in rousing the absorbents, and some of the most remarkrousing the absorbents, and some of the most remarkable cures of this disease, even at an advanced period, have been affected by it: whence it would be advisable, where the disease was proceeding rapidly, and particularly if the bowels were irritable, to use mercurial frictions, that the system might be sooner affected. Another very important step, after clearing the bowels, is to apply some evaporating lotion assiduously to the scalp, previously shaved; and the antiphlogistic regimen should be steadily observed. Disable to the scale of the scal phoretics will generally be proper, assisted by the warm bath; and diuretics on some occasions may be useful; but digitalis, which has been recommended on useful; but digitalis, which has been recommended on this ground, seems more likely to avail by lessening arterial action. Blisters may be applied to the temples, behind the ears, or to the nape of the neck, each perhaps successively: and dressed with savine cerate occasionally, to increase the discharge, and irritation externally; issues appear not so likely to prove beneficial. Errhines may farther contribute to obviate laternal effusion. Electricity has been proposed to rouse the absorbents to the second stage; but its efficacy and even propriety is very doubtful. Should cacy, and even propriety, is very doubtful. Should the progress of the complaint be fortunately arrested, the strength must be established by a nutritions diet, and tonic medicines; taking care to keep the bowels in good orden, and the head cool: an issue, under these

Hydrocephalus externus. Water between the

HYDROCEPHALUS INTERNUS. Water in the ventri-

cles of the brain.

HYDROCOTYLE. (From υδωρ, water, and κογυλη, the cotula.) 1. The name of a genus of plants in the Linnæan system. Class, Pentandria; Order,

Digynia.
2. The name, in some pharmacopæias, for the common marsh or water cotula, or pennywort, which is

Baid to possess acrid qualities.

Hydrocy'stis. (From υδωρ, water, and κυςις, a Hydrocy'stis.

Hyprocy'stra. From whop, water, and kuyts, a vesicle.) An encysted dropsy.

HYDROGEN. (Hydrogenium; from whop, water, and ywopan, to become, oryswan, to produce, because with oxygenit produces water.) Base of infammable air. Hydrogen is a substance not perceptible to our sensations in a separate state; but its existence is not at all the less certain. Though we cannot exhibit it experimentally uncombined, we can pursue it while it passes out of one combination into another; we cannot, indeed, arrett to nits passage, but we never fait to discover it, at least if we use the proper chemical means, when it presents itself to our notice in a new compound. compound.

Hydrogen, as its name expresses, is one of the constituent elements of water, from which it can alone be procured. Its existence was unknown till lately. It is plentifully distributed in nature, and acts a very considerable part in the process of the animal and vegeta-ble economy. It is one of the ingredients in the varieble economy. It is one of the ingredients in the varieties of bitumen, oils, fat, ardent spirits, ather, and, in fact, all the proximate, component parts of animal and vegetable bodies. It forms a constituent part of all animal and vegetable acids. It is one of the constituents of ammonia and of various other compound gases. It possesses so great an affinity for calorie, that it can only exist separately in the state of gas; it is consequently impossible to procure it in the concrete or liquid state, independent of combination.

Solid hydrogen therefore myter to capite and light,

Solid hydrogen, therefore, united to caloric and light,

forms hydrogen gas.

This gas, which was commonly called inflammable air, was discovered by Cavendish in the year 1768, or rather he first obtained it in a state of purity, and ascertained its more important properties, though it had been noticed long before. The famous philosophical candle attests the antiquity of this discovery.

Hydrogen gas, like oxygen gas, is a triple compound, consisting of the ponderable base of hydrogen, caloric, and light. It possesses all the mechanical properties of atmospheric air. It is the lightest substance whose weight we are able to estimate; when in its purest state, and free from moisture, it is about fourteen times lighter than atmospheric air. It is not fitted for respiration; animals, when obliged to breathe in it, die almost instantaneously. It is decomposed by living vegetables, and its basis becomes one of the constituents of oil, resin, &c. It is inflammable, and burns rapidly when kindled, in contact with atmospheric air or oxygen gas, by means of the electric spark, or by an inflamed body; and burns, when pure, with a yellowish lambent flame: but all burning substances are immediately extinguished when immersed in it. It is therefore, incapable of supporting combustion. It is not injurious to growing vegetables. It is unabsorbable by most substances; water absorbs it very sparingly. It is capable of dissolving carbon, sulphur, phosphorus, arsenic, and many other bodies. When its basis combines with that of oxygen gas, water is formed; with nitrogen it forms ammonia. It does not act on earthy substances. ration; animals, when obliged to breathe in it, die alearthy substances

Method of obtaining Hydrogen Gas.—A ready method of obtaining hydrogen gas consists in subjecting water to the action of a substance which is capa-

ble of decomposing this fluid.

The of decomposing his find.

1. For this purpose, let sulphuric acid, previously diluted with four or five times its weight of water, be poured on iron filings, or bits of zinc, in a small retort, or gas-bottle, called a pneumatic flask, or proof; as soon as the diluted acid comes in contact with the metal, a violent effervescence takes place, and hydrogen gas escapes without external heat being applied. It may be collected in the usual manner over water, taking care to let a certain portion escape on account of the atmospheric air contained in the disengaging vessels.

pheric air contained in the disengaging vessels.

The production of hydrogen gas in the above way is owing to the decomposition of water. The iron, or zinc, when in contact with this fluid, in conjunction with sulphuric acid, has a greater affinity to oxygen than the hydrogen has; the oxygen, therefore, unites to it, and forms an oxide of that metal which is instantly attacked and dissolved by the acid; the other constituent part of the water, the hydrogen, is set free, which, by uniting with caloric, assumes the form of hydrogen gas. The oxygen is, therefore, the bond of union between the metal and the acid.

hydrogen gas. The oxygen is the transfer as found or union between the metal and the acid.

The hissing noise, or effervescence, observable during the process, is owing to the rapid motion excited in the mixture by means of the great number of air-bubbles. quickly disengaged and breaking at the surface of the

We see, also, in this case, that two substances exert we see, also, it this case, that two substances exert an attraction, and are even capable of decomposing jointly a third, which neither of them is able to do singly; it. If we present sulphuric acid alone, or iron or zinc alone, to water, they cannot detach the oxygen from the hydrogen of that fluid; but, if both are applied, adecomposition is instantly effected. This experiment, therefore, proves that the agency of chemical affinity hetween two or more bedies provided. between two or more bodies may lie dormant, until it

is called into action by the interposition of another [ hot burned perfectly spontaneously, but it appeared to body, which frequently exerts no energy upon any of them in a separate state. Instances of this kind were formerly called predisposing affinities.

2. Iron, in a red heat, has also the property of decom posing water, by dislodging the oxygen from its combination with hydrogen, in the following manner:—

Let a gun-barrel, having its touch-hole screwed up, pass through a furnace, or large crucible perforated for that purpose, taking care to incline the barrel at the narrowest part; adjust to its upper extremity a retort charged with water, and let the other extremity termi-nate in a tube introduced under a receiver in the pneunate in a tube introduced under a receiver in the pneumatic trough. When the apparatus is thus disposed, and well luted, bring the gun-barrel to a red heat, and, when thoroughly red-hot, make the water in the retort boil; the vapour, when passing through the red-hot tube, will yield hydrogen gas abundantly. In this experiment, the oxygen of the water combines with the periment, the oxygen or the water combines with the iron at a red heat, so as to convert it into an oxide, and the catoric applied combines with the hydrogen of the water, and forms hydrogen gas. It is, therefore, the result of a double affinity, that of the oxygen of the water for the metal, and that of its hydrogen for caloric.

The more catoric is employed in the experiment of

decomposing water by means of iron, &c. the sooner is

the water decomposed

Hydrogen gas, combined with carbon, is frequently found in great abundance in mines and coal-pits, wher it is sometimes generated suddenly, and becomes mixed with the atmospheric air of these subterraneous cavi-ties. If a lighted candle be brought in, this mixture often explodes, and produces the most dreadful effects. often explodes, and produces the most greatful enects. It is called by miners, fire damp. It generally forms a cloud in the upper part of the mine, on account of its levity, but does not mix there with atmospheric air, unless some agitation takes place. The miners frequently set fire to it with a candle, lying at the same time flat on their faces to escape the violence of the shock. An easier and more safe method of clearing the mine, is by leading a long tube through the shaft of it, to the ash-pit of a furnace; by this means the gas will be conducted to feed the fire

Sir Humphrey Davy has invented a valuable instru-ment called a safety lamp, which will enable the miners to convey a light into such impure air without risk. This is founded on the important discovery, made by him, that flame is incapable of passing through minute apertures in a metallic substance, which yet are pervious to air; the reason of which appears to be. that the ignited gas, or vapour, is so much cooled by the metal in its passage as to cease being luminous.

Hydrogen gas, in whatever manner produced, always originates from water, either in consequence of a pre-ceding decomposition, by which it had been combined in the state of solid or fixed hydrogen, with one of the substances employed, or from a decomposition of water actually taking place during the experiment.

There are instances recorded of a vapour issuing from

the stomach of dead persons which took fire on the approach of a candle. We even find accounts, in several works, of the combustion of living human beings, which appeared to be spontaneous. Dr. Swediaur has related some instances of porters at Warsaw, who having drunk abundantly of spirit, fell down in the street, with the smoke issuing out of their mouths; and people came to their assistance, saying they would take fire; to prevent which, they made them drink a great quantity of milk, or used a more singular expedient, by caus-ing them to swallow the urine of the bystanders, im-

mediately on its evacuation.

However difficult it may be to give credit to such narratives, it is equally difficult to reject them entirely, without refusing to admit the numerous testimonies of men, who were, for the most part, worthy of credit. Citizen Lair has collected all the circumstances of this nature which he found dispersed in different books, and has rejected those which did not appear to be supported has rejected those which did not appear to be supported by respectable testimony, to which he has added some others related by persons still living. These narratives are nine in number; they were communicated to the Philomathic Society, at Paris, and inserted in the bulletin Thermidor, An. 5, No. 29. The cause of this pnenomenon has been attributed to a development of hydrogen gas taking place in the stomachs of these individuals.

Lair believes that the bodies of these people were

be owing to some very sight external cause, such as the fire of a candle, taper, or page.

Hydrogen cas, selective etter. This gas is colourless. It reddens himms. Its density has not been lourless. It reddens limms. Its density has not been determined by experiment. Its smell resembles, at first, that of sulphuretted hydrogen gas; but the sensation soon changes, and another succeeds, which is at once pungent, satringent, and painful. The eyes become almost instantly red and inflamed, and the sense of smelling entirely disappears. A bubble of the size of a little pea is sufficient to produce these effects. Of all the bodies derived from the morganic kingdom, selenimented hydrogen is that which exercises the transaction and he animal engagement. Water disstrongest action on the animal economy. Water dissolves this gas; but in what proportions is not known.
This solution disturbs almost all the metallic solutions, producing black or brown precipitates, which assume, on rubbing with polished hæmatites, a metallic lustre. Zinc, manganese, and cerium, form exceptions. They yield flesh-coloured precipitates, which appear to be hydro-sclepuirets of the oxides, while the others, for the most part, are merely metallic scleniurets.

HYDROGEN, SULPHURETTED. Sulphuretted hydrogen gas possesses the properties of an acid; for, when absorbed by water, its solution reddens vegetable blues; it combines also with alkalies, earths, and with seve ral metallic oxides. Sulphuretted hydrogen, combined with any base, forms a hydro-sulphuret, which may be also called an hepatule, to distinguish it from an hepat, which is the union of sulphur singly with a base. Sulphuretted hydrogen gas possesses an extremely offensive odour, resembling that of putrid eggs. It kills animals, and extinguishes burning bothes. When in contact with oxygen gas, or atmospheric air, it is inflammable. Mingled with nitrous gas, it burns with a yellowish green flame. It is decomposed by ammonia, by oxymuriatic acid gas, and by sulphurous acid gas. It has a strong action on the greater number of metallic oxides. Its specific gravity is about 1.18 ral metallic oxides. Sulphuretted hydrogen, combined of metallic oxides. Its specific gravity is about 1.18 when pure. It is composed, according to Thomson, of sixteen parts of sulphur, and one of hydrogen. It has the property of dissolving a small quantity of

Sulphuretted hydrogen gas may be obtained in seve-

ral ways:—

1. Take dry sulphuret of potassa, put it into a tubulated retort, lodged in a sand-bath, or supported over a lamp; direct the neck of the retort under a receiver placed in the pneumatic trough; then pour gradually upon the sulphuret diluted sulphuric or muriatic acid; a violent effervescence will take place, and sulphuret-ted hydrogen gas will be liberated. When no more gas is produced spontaneously, urge the mixture with heat, by degrees, till it boils, and gas will again be liberated abundantly.

The water made use of for receiving it, should be heated to about 80° or 90°; at this temperature it dissolves little of the gas; whereas, if cold water be made use of, a much greater quantity of it is absorbed.

Explanation.—Though sulphur makes no alteration

on water, which proves that sulphur has less attraction for oxygen than hydrogen has, yet if sulphur be united an alkali, this combination decomposes water whenever it comes in contact with it, though the alkali itself has no attraction either for oxygen or hydrogen.

itself has no attraction either for oxygen or hydrogen. The formation of this gas explains this truth. On adding the sulphuret of potassa to the water, this fluid becomes decomposed, part of the sulphur robs it of its oxygen; and forms with it sulphuric acid; this generated acid unites to part of the alkali, and forms sulphate of potassa. The liberated hydrogen dissolves another part of the sulphur, and forms with it sulphuretted hydrogen, the basis of this gas, which is retained by the separated portion of the alkali. The sulphuric or muriatic acid, added now, extricates it from the alkali, and makes it fly off in the form of gas.

Diluted muriatic acid seems best adapted for the production of sulphuretted hydrogen gas from alkaline sulphurets. If nitric acid be made use of, it must be much diluted. Sulphuric acid yields little gas, unless assisted by heat. When the proportion of sulphur in the sulphurac acid, poured upon it, emits sulphurous acid gas. All the rest of the acids may be made use of for decomposing the sulphurar e united together, they The formation of this gas explains this truth.

afford a large quantity of sulphuretted hydrogen gas, on submitting them to the action of heat, in contact with diluted muriatic acid.

with diluted murialic acid.

Melt together, in a crucible, equal parts of iron filings and sulphur; the product is a black brittle mass, called sulphuret of iron. Reduce this to powder, and put it, with a little water, into a tubulated retort, add diluted muriatic acid, and apply a gentle heat, till no more gas is disengaged. The philosophy of this experiment is analogous to the former. Part of the oxygen of the water unites to part of the sulphur, and forms sulphuric acid, another nart oxidizes the iron, which.

of the water unites to part of the sulphur, and forms sulphuric acid; another part oxidizes the iron, which, dissolved by the acid, forms sulphate of ron, the hydrogen of the water unites to another part of the sulphur, and forms sulphuretted hydrogen, which becomes gaseous by the addition of cutorie.

3. Sulphuretted hydrogen gas may also be obtained by heating an alkaline sulphuret, with the addition of water, without the aid of an acid. In this case, the water is also decomposed; its hydrogen unites with part of the sulphur, and forms sulphuretted hydrogen; the oxygen of the water unites with another part of the sulphur, and produces sulphuric acid, which point to the alkali and forms a suppose. The sulphuromed hydrogen becomes disenganced by heat in the gaseous

4. Sulphuretted hydrogen gas may be obtained by passing hydrogen gas through sulphur, in a state or

For this purpose, put sulphur into a gun-barrel, or Wedgewood's tube, and place it across a furnace; if to the lower extremity a bent glass tube, which goes under a receiver placed in the pneumatic trough, and adapt to the upper extremity a tubulated retort, or other apparatus proper for producing hydrogen gas. The sulphur must then be heared, and, when meited the hydrogen gas evolved must be made to pass over it, which, in this manner, will dissolve part of the sulphur, and become converted into sulphuretted hy-

5. It may likewise be procured in the following direct manner: let a small quantity of sulphur be en-closed in a jar full of hydrogen gas, and melt it by means of a burning-glass. This method does not suc-ceed except the hydrogen gas be as dry as possible, for its affinity to sulphur is weakened in proportion to its

moisture

6. The method, however, which affords it purest, is by treating sulphuret of antimony with diluted muriatic acid. The explanation is similar to the preceding

Hudrogen, carburetted. See Carburetted hydrogen

Hydrogen, percarburetted. See Carburetted hydro-

Hydrogen, subcarburetted. See Carburetted hydro-

gen gas. Hudrogen, phosphuretted. See-Phosphorus.

Hydrogen, subphosphuretted. See Phosphorus. Hydrogen gas, heavy, carbonated. See Carbonated hydrogen gas

Hydrogen gas, light, carbonated. See Carburetted

HYDROGURET. See Unt.

Hydroguret of carbon. See Carburetted hudrogen

HYDROLA PATHUM. (From υδωρ, water, and λαπαθον, the dock.) See Rumer hydrolipathum. HVDRO'MELL. (From νέωρ, water, and μελι, ho-

ney.) Mulsum, Aqua Mulsa: Melicrotion: Brag gat; Hydromel. Water impregnated with honey. After it is fermented, it is called vinous hydromel, or

HYDROTHIONIC ACID. See Sulphuretted hy

equal as possible, by avoiding any contact of the bot the with the hand, or otherwise. The bottle uself shows with much precision, by a rise or fall of the liquid in the notch of the stopper, whether any such

change have taken place.

The hydrometer of Fahrenheit consists of a hollow ball, with a counterpoise below, and a very slender stem above, terminating in a small dish. The middle, or half length of the stem, is distinguished by a fine line across. In this instrument every division of the line across. In this instrument every division of the stem is rejected, and it is immersed in all experiments to the middle of the stem, by placing proper weights in the linio dish above. Then, as the part immersed is constantly of the same magnitude, and the whole weight of the hydrometer is known, this last weight, added to the weights in the dish, will be equal to the weight of fluid displaced by the instrument, as all wri-ters on hydrostatics prove. And, accordingly, the sp. gravities for the common form of the tables will be had

As the whole weight of the hydrometer and its load, when adjusted in distilled water,

Is to the number 1000, &c

So is the whole weight when adjusted in any

To the number expressing its specific gravity.

The hydrometers, of pese-liqueurs, of Baumé, though in reality comparable with each other, are subject in part to the defect, that their results, having no independent numerical measure, require explanation

independent numerical measure, require explanation to those who do not know the instruments.

HVDROFIETRA. (From υδωρ, water, and μητολ, the words.) Hydrops wtern. Dropsy of the words.

A genus of disease in the class Caemerio, and order Interessents, of Cullen. It produces a swelling of the lappogasture region, slowly and gendually increasing, a sembling the figure of the uterus, yielding to, or fluctuating on pressure; without ischury or preg-nancy. Souvages enumerates seven species. It must be considered as a very rare disease, and one that can with difficulty be ascertained.

HYDRO MPHALUM. (From νέωρ, water, and

ομφ rhose the navel.) A tumour of the navel, contain-

Hydro'sosos. (From υδωρ, water, and νοσος, a Sease.) The sweating sickness. See Ephidrosis. HYDRO OXIDE. See Hydrate. HYDROPEDE SIS. (From νδωρ, water, and πηδαω,

A breaking out into a violent sweat.

HYDROPHANE. Oculus mundi. A variety of opal, which has the property of becoming transparent

n immersion in water. HYDROPHO BIA. (From υζωο, water, and φοβεω, HYDROPHO BIA. (From want, water, and portage) to fear.) Rabies canina; Cynanthropia; Cynolesia. Canine madness. This disease ausses in consequence of the bite of a rabid animal, as a dog or eat, and sometimes spontaneously. It is termed hydrophobia, because persons that are thus bitten dread the sight or the falling of water when first seized. Cultan has arranged it under the class Neuroses, and order Spas-mi, and defines it a louthing and great dread of drinking any liquids, from their creating a painful convulsion of the pharynx, occasioned most commonly by the

bite of a mad animal.

There are two species of hydrophobia.

1. Hydrophobia rabiosa, when there is a desire of biting

Hudrophobia simplex, when there is not a desire of biting.

Dr. James observes, that this peculiar affection properly belongs to the canine genus, viz. dogs. foxes, and wolves; in which animals only it seems to be innate and natural, scarcely ever appearing in any others, except when communicated from these. When a dog except when communicated from these. When a dog is affected with madness, he becomes dult, solitary, and endeavours to hide himself, seldom barking, but making a murmuring noise, and refusing all kinds of meat and drink. He flies at strangers; but, in this stage, he remembers and respects his master; his head and rail hand down, he walks as if course. drogen.

HYDROMETER. (Hydrometer; from υδωρ, was ter, or fluid, and μετρον, a measure.) The best method of weighing equal quantities of corrosive volatile fluids, to determine their epecific gravities, appears to consist in enclosing them in a bottle with a conical stopper, in the side of which stopper a fine mark is out with a file. The fluid being poured into the bottle, it is easy to put in the stopper, because the redundant fluid escapes through the notch, or mark, and may be carefully wiped off. Equal bulks of water, and other fluids, are by this means weighed to a great degree of accuracy, care being taken to keep the temperature as walks slowly, as if half asleep, and then runs suddenly, 438 but not always directly forward. At last he forgets his master; his eyes have a dull, watery, red appearance; he grows thin and weak, often falls down, gets up and attempts to fly at every thing, becoming very soon quite furious. The animal seldom lives in this later state longer than thirty hours; and it is said, that his bites toward the end of his existence, are the most dangerous. The throat of a person suffering hydrophobia is always much affected; and, it is asserted, the nearer the bite to this part the more perilous. Hydrophobia may be communicated to the human subject from the bites of cats, cows, and other animals, not of the camine species, to which the affection has been previously communicated. However, it is from the bites of those domestic ones, the dog and cat, that most cases of hydrophobia originate. It does not appear that the bite of a person affected can communicate the disease to another; at least the records of mediciae furnish no proof of this circumstance.

In the human species, the general symptoms attendbut not always directly forward. At last he forgets his

dicine furnish no proof of this circumstance. In the human species, the general symptoms attendant upon the bite of a mad dog, or other rabid animal, are, at some indefinite period, and occasionally long after the bitten part seems quite well; a slight pain begins to be felt in it, now and then attended with itching, but generally resembling a rheumatic pain. Then come on wandering pains, with an uneasiness and heaviness, disturbed sleep, and frightful dreams, accompanied with great restlessness, sudden startings, and stassurs, sighting anxiety, and a love for solitude. accompanied with great restlessness, sudden startings, and spasins, sighing, anxiety, and a love for solitude. These symptoms continuing to increase daily, pains begin to shoot from the place which was wounded, all along up to the throat with a stratiness and sensation of choking, and a horror and dread at the sight of water, and other liquids, together with a loss of appetite and tremor. The person is, however, capable of swallowing any solid substance with tolerable ease; but the moment that any thing in a fluid form is swantowing any solid substance with tolerator case, but the moment that any thing in a fluid form is brought in contact with his lips, it occasions him to start buck with much dread and horror, although he labours perhaps under great thirst at the time.

A conting of bilious matter soon comes on, in the course of the disease, and an intense hot fever ensues, attended with continual watching, great thirst, dryness and roughness of the tongue, hearseness of the vice, and the discharge of a viscid saliva from the mouth, which the patient is constantly spitting out; together with spasms of the genital and urmary organs, in consequence of which the evacuations are forcibly thrown His respiration is laborious and uneasy, but his judgment is unaffected; and, as long as he retains the power of speech, his answers are distinct.

In some few instances, a severe defirium arises, and closes the tragic scene; but it more frequently happens, that the pulse becomes tremulous and irregular, that convulsions arise, and that nature being at length ex-

convuisions arise, and that nature being at length exhausted, sinks under the pressure of misery.

The appearances to be observed, on dissection in hydrophobia, are unusual aridity of the viscera and other parts; marks of inflammation in the fauces, gula, and larynx; inflammatory appearances in the stomach, and an accumulation or effusion of blood in the lungs. Same areas of inflammatory. the lungs. Some marks of inflammation are likewise to be observed in the brain, consisting in a serous effusion on its surface, or in a redness of the pia mater; which appearances have also presented themselves in the dog. In some cases of dissection, not the least morbid ap-

pearance has been observed, either in the fauces, diaphragm, stomach, or intestines. The poison has, therefore, been conceived by some physicians to act upon the nervous system, and to be so wholly contined to it, as to make it a matter of doubt whether the qualities of the blood are attered or not. There is no known cure for this terrible disease, and the only preventive to be relied upon is the complete existin of the bitten part, which should be performed as soon as possible; though it was neglection, not be too late, any time before hough it may perhaps not be too late any time before

the symptoms appear.
HYDROPHOSPHOROUS ACID. See Phosphorous

HYDROPHTHA'LMIA. From υδωρ, water, and HYPROPHITHA LMIA. From υδορ, water, and αθθαλμος, the eye.) Hydrophthalmium. There are two diseases, different in their nature and consequence, thus termed. The one is a mere anasarcous or ede-matous swelling of the eyelid. The other, the true hydrophthalmia, is a swelling of the bulb of the eye, from too great a collection of vitreous or aqueous humours. HYDROPHTHA LMIUM. (From υδωρ, water, and

θαλμος, the eye.) See Hydrophthalmia. HYDROPHTORIC ACID. Judum hydrophtori-HYDROPHTORIC ACID. Avidum hydrophtoricum. (From  $v\delta\omega\rho$ , water, and  $\phi\theta\omega\rho_0$ , destructive.) Ampère's name for the base of the fluoric acid, ealled by Davy, fluorine. See Hydro-fluoric acid.
HYDROPHYSOCE'LE. (From  $v\delta\omega\rho$ , water,  $\phi\omega\sigma\eta$ , flatulence, and  $\kappa\eta\lambda\eta$ , a tumour.) A swelling formed of water and air. It was applied to a hernia, in the sac of which was a fluid and air.
HYDROPICA. (From  $v\delta\rho\omega\psi$ , the dropsy.) Medicines which relieve or cure dropsy.
IYDROPIPER. From  $v\delta\omega\rho$ , water, and  $\pi\epsilon\kappa\rho\iota$ , pepper: so called from its bitting the tongue like pepper, and growing in matshy places.) See Polygroum hydro-

and growing in marshy places.) See Polygonum hydro

HYDROPNEUMOSA'RCA. (From υδωρ, water, πνευμα, wind, and σαρξ, flesh.) A tumour of air, water, and solid substances.

HYDROPOI'DES. (From υδρωψ, a dropsy, and

HYDROPOI DES. (From υδρωψ, a dropsy, and exios, likeness.) Serous or watery, formerly applied to liquid and watery excrements.

HY'DROPS. (Hydrops, pis. m.; from υδωρ, water.) Dropsy. A preternatural collection of serous or watery fluid in the cellular substance, or different cavities of the body. It receives different appellations, according to the particular situation of the

When it is diffused through the cellular membrane, when it is diffused through the condair membraine, either generally or partially, it is called anasarca. When it is deposited in the cavity of the cranium, it is called hydrocephalus; when in the chest, hydrothoraz, or hydrops pectoris; when in the abdomen, ascites. In the uterus, hydrometra, and within the scrotum, hydrometra, and within the scrotum,

hydrocele.

The causes of these diseases are a family disposition The causes of these discases are a falling dispersion thereto, frequent salivations, excessive and long-continued evacuations, a free use of spirituous liquors, (which never fail to destroy the digestive powers,) scirrhosities of the liver, spleen, pancreas, mesentery, and other abdominal viscera; pracedag, mesentery, and other abdominal viscera; preceding diseases, as the jaundice, diarrhæn, dysentery, phthisis, asthma, gout, intermittents of long duration, scarlet fever, and some of the exanthemata: a suppression of accustomed evacuations, the sudden striking in of eruptive humours, ossification of the valves of the heart, polypi in the right ventricle, ancurism in the arteries, tumours in the right ventricle, ancurism in the arteries, tumours making a considerable pressure on the neighbouring parts, permanent obstruction in the lungs, rupture of the thoracic duct, exposure for a length of time to a moist atmosphere, laxity of the exhalants, defect in the absorbents, topical weakness, and general debility.

IN DROPS ARTICULE A white swelling of a joint is

Hydrors cysticus. A dropsy enclosed in a bag,

Hyprops genu. An accumulation of synovia, or serum, within the capsular ligament of the knee.

Hydrops ad matulam. Diabetes. HYDROPS MEDULLE SPINALIS. See Hydrorachitis and Spina bifida.

HYDROPS OVARII. A dropsy of the ovarium. See

HYDROPS PECTORIS. See Hydrothorax.
IIYDROPS PERICARDII. See Hydrocardia.
HYDROPS PULMONUM. Water in the cellular interstices of the lungs.

stices of the lungs.

Hydrops serott. See Hydrocele.

Hydrops uterl. See Hydrometra.

Hydrops uterl. See Hydrometra.

Hydrops fever. A sweating fever.

HYDROPs CHITTIS. (From υδωρ, water, and πυρε]ος, fever.) A sweating fever.

HYDROPACHITTIS. (From υδωρ, water, and ραχις, the spine.) A fluctuating tumour, mostly situated on the lumbar vertebra of new-born children. It is a genus of disease in the class Cachezia, and order Intumescentia, of Cullen, and is always incurable. See Spina bifida.

Hydropolarum. A drink made of water, honey.

A drink made of water, honey, HYDRORO SATUM.

And the juice of roses.

HYDROSA CCHARUM. (From υδωρ, water, and σακχαρου, sugar.) A drink made of sugar and water.

HYDROSA RCA. (From υδωρ, water, and σαρξ,

HYDROSA ROA. (From volume, water, one cope, where, one cope, the flesh, and κηλη, a tumour.) Sarcocele, with an effusion of water into the cellular membrane.

HYDROSELENIC ACID. The best process which

we can employ for procuring this acid, consists in treating the selenturet of iron with the figure muriatic acid. The acid gas evolved must be collected over mercury. As in this case a little of another gas, condensible neither by water nor alkaline solutions, appears, the best substance for obtaining absolutely pure hydroselenic acid would be selenturet of potassium.

HYDROSELI'NUM. (From υδωρ, water, and σελινον, pursiane.) A species of pursiane growing in

HYDROSULPHURET. Hydrosulphuretum. A compound of sulphuretted hydrogen with a salifiable

HYDROSULPHURE'TUM STIBII LUTEUM. See Anti-

monii sulphuretum pracipitatum.

Hydrosulphuretum stibii rubrum. Kermes
mineralis. A hydro-sulphuret of antimony formerly in high estimation as an expectorant, sudorific, and antispasmodic, in difficult respiration, rheumatism,

diseases of the skin and glands.

HYDROTHIONIC ACID. Some German chemists distinguish sulphuretted hydrogen by this name on ac-

distinguish sulphuretted hydrogen by this name on account of its properties resembling those of an acid. HYDROTHO'RAX. (From  $v\delta\omega\rho$ , water, and  $\theta\omega\rho\alpha\xi$ , the cheet.) Hydrops thoracis; Hydrops pectoris. Dropsy of the chest. A genus of disease in the class Cachexia, and order Intemescentia, of Cullen. Difficulty of breathing, particularly when in a horizontal posture; sudden startings from sleep, with anxiety, and palpitations of the heart; cough, paleness of the visage, anasarcous swellings of the lower extremities, thirst, and a scarcity of urine, are the characteristic symptoms of hydrothorax; but the one which is more decisive than all the rest is a fluctuation of water being perceived in the chest, either tuation of water being perceived in the chest, either by the patient himself or his medical attendant, on cer-

by the patient himself of mis medical attenuant, on cer-tain motions of the body.

The causes which give rise to the disease, are pretty much the same with those which are productive of the other species of dropsy. In some cases, it exists without any other kind of dropsical affection being present; but it prevails very often as a part of more universal dropsy.

It frequently takes place to a considerable degree before it becomes very perceptible; and its presence is not readily known, the symptoms, like those of hydronot readily known, the symptoms, like those of hydro-cephalus, not being always very distinct. In some instances, the water is collected in both sacs of the pleura; but, at other times, it is only in one. Sometimes it is lodged in the pericardium atone; but, for the most part, it only appears there when, at the same time, a collection is present in one or both cavities of the thorax. Sometimes the water is effused in the cellular texture of the lungs, without any being deposited in the cavity of the thorax. In a few cases, the water that is collected is enveloped in small cysts, of a membraneous patture, known by the name of of a membraneous nature, known by the name of hydatides, which seem to float in the cavity; but more frequently they are connected with, and attached to, particular parts of the internal surface of the pleura

Hydrothorax often comes on with a sense of uneasiness at the lower end of the sternum, accompanied by a difficulty of breathing which is much increased by any exertion, and which is always most considerable during night, when the body is in a horizontal posture. Along with these symptoms there is a cough, that is at first dry, but which, after a time, is attended with an expectoration of thin mucus. There is likewise a expectoration or thin mucus. There is likewise a paleness of the complexion, and an anasarcous swell-ing of the feet and legs, together with a considerable degree of thirst and a diminished flow of urine. Under these appearances, we have just grounds to suspect that there is a collection of water in the chest; but if the fluctuation can be perceived, there can then re-main no doubt as to the reality of its presence.

main no doubt as to the reanty of its presence.

During the progress of the disease, it is no uncommon thing for the patient to feel a numbness, or degree of palsy, in one or both arms, and to be more than ordinarily sensible to cold. With regard to the pulse, it is usually quick at first, but, towards the end, becomes irregular and intermitting.

Our progressie in behaviours, range in gengral, becomes

Our prognestic in hydrothorax must, in general, be unfavourable, as it has seldom been cured, and, in many cases, will hardly admit even of alleviation, the difficulty of breathing continuing to increase, until the

or that there are hydatides formed in some particular part of it; but they more frequently discover water in both sides of the chest, accompanied by a collection in the cellular texture and principal cavities of the body. The fluid is usually of a yellowish colour; possesses properties similar to serum, and, with respect to sesses properties similar to seruin, and, with respect to its quantity, varies very much, being from a few ounces to several quarts. According to the quantity, so are the lungs compressed by it; and, where it is very considerable, they are usually found much reduced in size. When universal anasarca has preceded the collection in the chest, it is no uncommon occurrence to find some of the abdominal viscera in a

The treatment of this disease must be conducted on the same general plan as that of anasarca. Emetics, the same general plan as that of anisanca. Emetics, however, are hazardous, and purgatives do not afford so much benefit; but the bowels must be kept regular, and other evacuating remedies may be employed in conjunction with tonics. Squill has been chiefly resorted to, as being expectorant as well as diuretic; but its nature in smaller in the conjunction. its power is usually not great, unless it be carried so tar. as to cause nausea, which cannot usually be borne to any extent. Digitalis is more to be relied upon; but it any extent. Digitalis is more to be relied upon; but it will be better to conjoin them, adding, perhaps, some form of mercury; and employing at the same time-other diureties, as the supertailtrate or acciate of potassa, jumiper berries, &c. Where febrile symptoms attend, diaphoreties will probably be especially ser viceable, as the pulvis lpecacuanhæ conjoisius, or antimonais, in small doses; which last may also promote expectoration. Blusters to the chest will be propor in many cases, particularly should there he any per in many cases, particularly should there be any pain or other mark of inflammatory action. Myrrh seems to answer better than most other tonics, as more seems to answer better than most other tonics, as more decidedly promoting expectoration; or the nitric acid may be given, increasing the secretion of urine, as well as supporting the strength. The inhalation of oxygen gas is stated to have been in some instances singularly beneficial. Where the fluid is collected in either of benedical. Where the fluid is confected in editor of the sacs of the pleura, the operation of paracentesis of the thorax may afford relief under urgent symptoms, and, perhaps, contribute to the recovery of the patient. HYDRUXURE. See Hydrate.
HYDRUXURE A compound of hydrogen with a matel Sac Viset.

metal. See Uret.

HYGEIA. Hygicia. The goddess of health. One of the four daughters of Esculapius. She often accompanies her father in the monuments of him now remaining, and appears like a young woman, com-monly holding a serpent in one hand, and a patera in the other. Sometimes the screent drinks out of the patera; sometimes he twines about the whole body of

in the goddess.

IIYGIE'NE. (From vytatvo, to be well.) Hygicsic.

Modern physicians have applied this term to that division of therapeia which treats of the diet and non naturals of the sick.

s. See Hygiene. (From υγρος, humid.) An ancient term HYGIE'SIS.

for liquid plasters

for liquid plasters.

Hygrempla'strum. (From νγρος, moist, and εμπλαγρον, a plaster.) A liquid plaster.

Ilygroslephia ricus. (From νγρος, liumid, and δλαφρον, the cyelid.) Applied to the cumunctory ducts in the extreme edge, or inner part of the eyelid Ilygroscirsoce E.e. (From νγρος, moists, κτροςς, a varix, and κπλπ, a tumour.) Dilated spermatic veins, or circocele, with dropsy of the scrotum.

Hygrocolly'rium. (From νγρος, liquid, and κολλυρον, a collyrium.) A collyrium composed of liquids IIY GRO LOGY. (Hygrologia, from νγρος, a limmour or fluid, and λογος, a discourse.) The acctrine of the fluids. of the fluids

HYGRO MA. (Υγρωμα; from υγρος, a liquid.) An encysted tumour, the contents of which are either serum or a fluid-like lymph. It sometimes happens that these tumours are filled with hydatids. Hygro-matous tumours require the removal of the cyst, or the destruction of its secreting surface.

HYGRO'METER. (Hygrometrum; from vypos, moist, and  $\mu\epsilon\tau\rho\sigma\nu$ , a measure.) Hygrometer. An instrument to measure the degrees of moisture in the atmosphere. It also means an infirm part of the body,

atmosphere. It also means an initial para affected by moisture of the atmosphere. Hydromy'aum. (From 19706, moist, and 1910000, a liquid ointment.) A liquid ointment. HYGROSCO'PIC. Substances which have the pro-Atmosphere

Hygropho'bia. See Hydrophobia. HY'LE. (Υλη, matter.) The materia medica, or matter of any kind that comes under the cognizance

a medical person.

of a medical person. Hymen, the god of marriage, because this membrane is supposed to be entire before marriage, or copulation.) The hymen is a thin membrane, of a semilunar or circular form, placed at the entrance of the vagina, which it partly closes. It has a very different appearance in different women, but it is generally, if not always, found in virgins, and is very properly esteemed the test of virginity, being ruptured in the first act of coition. The remnants of the hymen are called the carunculus myrtiformes. The hymen is also neculiar to the human species. There hymen is also peculiar to the human species. There are two circumstances relating to the hymen which require medical assistance. It is sometimes of such a strong ligamentous texture, that it cannot be ruptured, and prevents the connexion between the sexes. also sometimes imperforated, wholly closing the entrance into the vagina, and preventing any discharge from the uterus; but both these cases are extremely rare. If the hymen be of an unnaturally firm texture, but perforated, though perhaps with a very small opening, the inconveniences thence arising will not be discovered before the time of marriage, when they may be removed by a crucial incision made through it, taking care not to injure the adjoining parts.

The imperforation of the hymen will produce its

The imperioration of the hyline with produce its inconveniences when the person begins to menstruate. For the menstruous fluid, being secreted from the uterus at each period, and not evacuated, the patient suffers much pain from the distention of the parts, many strange symptoms and appearances are occationed, and suspicions injurious to her reputation are stoned, and suspicions injurious to her reputation are often entertained. In a case of this kind, for which Dr. Denman was consulted, the young woman, who was twenty-two years of age, having many uterine complaints, with the abdomen enlarged, was suspected to be pregnant, though she persevered in asserting the contrary, and had never menstruated. When she was prevailed upon to submit to an examination, the circumscribed tumour of the uterus was found to reach as high as the navel, and the external parts were stretched by a round soft substance at the entrance of the vagina, in such a manner as to resemble that appearance which they have when the head of a child is passing through them; but there was no entrance into the vagina. On the following morning an incision was carefully made through the hymen, which had a fleshy appearance, and was thickened in proportion to its detention. Not less than four pounds of blood, of the colour and consistence of tar, were discharged; and the tumefaction of the abdomen was immediately removed. Several stellated incisions were afterward made through the divided edges, which is a very necessary part of the operation; and care was taken to prevent a reunion of the hymen till the next period prevent a reunion of the nymen till the next period of menstruation, after which she suffered no inconvenience. The blood discharged was not putrid or coagulated, and seemed to have undergone no other change after its secretion, but what was occasioned by the absorption of its more fluid parts. Some caution is sourced when the house is described to the control of is required when the hymen is closed in those who are in advanced age, unless the membrane be distended by the confined menses; as Dr. Denman once saw an instance of inflammation of the periton um being immediately produced after the operation, of which the patient died as in the true puerperal fever; and no other reason could be assigned for the disease.

The carunculæ myrtiformes, by their elongation and enlargement, sometimes become very painful and troublesome.

HYMENÆA. (From Hymen, the god of marriage because, as Linnæus informs us, its younger leaves cohere together in pairs, throughout the night.) The

name of a genus of plants. Class, Decandria; Order,

HYMENEA COURBARIL. The systematic name of the locust-tree which affords the resin called gum anime, which is now fallen into disuse, and is only to

anime, which is now fallen into disuse, and is only whe found in the collections of the curious.

HYMENIUM. (From νμην, a membrane.) The dilated exposed membrane of gymnocarpous mushrooms, in which the seed is placed. See Gymnocarpit.

HYMENODES. (From νμην, a membrane, and ετόσς, likeness.) Anold term for such urine as is found to be full of little films and pellicles. Hippocrates applies it also to the menstrual discharge when mixed with a tompt vised philery.

with a tough viscid phlegm.

HYO. Names compounded of this word belong to muscles which originate from, or are inserted into, or connected with, the os hyoides; as Hyo-glossus, Hyo-

pharyngeus, Genio hyo glossus, &c.
HYO-GLOSSUS. Cerato-glossus of Douglas and HYO-GLOSSUS. Cerator tossus of Douglas and Cowper. Rasio-cerato-chondro-glossus of Albinus. Hyo-chondro-glosse of Dumas. A muscle situated at the sides, between the os hyoides and the tongue. It arises from the basis, but chiefly from the corner of the os hyoides, running laterally and forwards to the tongue,

os nyones, timining interiary aim forwards to the longue, which it pulls inward and downward.

HYOl'DES OS. (From the Greek letter v, and exost, likeness: so named from its resemblance.) This bone, which is situated between the root of the tongue and which is situated between the root of the tongue and the larynx, derives its name from its supposed resemblance to the Greek letter v, and is, by some writers, described along with the parts contained in the mouth. Ruysch has seen the ligaments of the bone so completely ossified, that the os hyoides was joined to the temporal bones by anchylosis. In describing this bone, it may be distinguished into its body, horns, and appendices. The body is the niddle and broadest part of the bone, so placed that it may be easily felt with the finger in the forepart of the throat. Its forepart, which is placed toward the tongue, is irregularly convex, and its inner surface, which is turneds to wards the which is placed toward the tongue, is irregularly convex, and its inner surface, which is turneds towards the larvux, is unequally concave. The cornua, or horns, which are flat, and a little bent, are considerably longer than the body of the bone, and may be said to form the sides of the v. These horns are thickest near the body of the bone. At the extremity of each is observed a round tubercle, from which a ligament passes to the thyroid cartiage. The appendices, or smaller horns, cornua minora, as they are called by some writers, are cornua minora, as they are called by some writers, are two small processes, which, in their size and shape, are somewhat like a grain of wheat. They rise up from the articulations of the cornua, with the body of the bone, and are sometimes connected with the styloid process on each side, by means of a ligament. It is not unusual to find small portions of bone in these ligaments; and Ruysch, as we have already observed, has seen them completely ossified. In the fœtus, almost the whole of the bone is in a cartilaginous state, excepting a small point of a bone in the middle of its body, and in each of its horns. The appendices do not begin to appear till after birth, and usually remain cartilaginous many years. The os hyoides serves to support the tongue, and affords attachment to a variety of muscles, some of which perform the motions of the tongue,

while others act on the larynx and fauces.

HYOPHARYNGE'US. (From voices; the hyoid bone, and φαρυγζ, the pharynx.) A muscle so called from its origin in the os hyoides, and its insertion in

the pharvny

the pharynx.

HYOPHTHA'LMUS. (From v<sub>5</sub>, a swine, and οφ-θαλμα<sub>5</sub>, an eye: so named from the supposed resemblance of its flower to a hog's eye.) Hogs-eye plant. Most probably the Buphthalmum spinosum of Linnaus.

HYOSCIANIA. A new vegetable alkali extracted by Dr. Brande from henbane. See Hyoscyamus niger.

HYOSCIANIS. (From v<sub>5</sub>, a swine, and κυαμος, a bean: so named because hoge eat it as a medicine, or it may be because the clant is hairy and bristly, like

or it may be because the plant is hairy and bristly, like a swine

1. The name of a genus of plants in the Linnæan stem. Class, Pentandria; Order, Monogynia.
2. The pharmacopeial name of the henbane. See system. Hyoscyamus niger.

HYOSCYAMUS ALBUS. This plant, a native of the south of Europe, possesses similar virtues to the hyoscyamus niger

HYOSCYAMUS LUTEUS. A species of tobacco, the Nicottana rustica of Linneus.

HYOSCYAMUS NIGER. The systematic name of com-mon or black henbane, called also Faba suilla; Apollimon or black henbane, called also Faba suilla; Apollinaris altercum; Agone; Altercangenon; Hyoscyanus—folis amplexicasilibus sinuatis, floribus sessilibus of Linnæus. The leaves of this plant, when recent, have a slightly feetid smell, and a muncilaginous taste; when dried, they lose both taste and smell, and part also of their narcotic power. The root possesses the same qualities as the leaves, and even in a more eminent degree. Henbane resembles opium in its action, more than any other narcotic dose. In a moderate dose it increases at first the strength of the pulse, and occasions some sense of heat, which are followed by diminished sensibility and motion; in some cases, by thirst, sickness, stupor, and dimness of vision. In a larger quantity it occasions profound sleep, hard pulse, and cometimes fierce delirium, ending in coma, or conand sometimes fierce delirium, ending in coma, or convulsions, with a remarkable dilatation of the pupil, distortion of the countenance, a weak tremulous pulse, and eruption of petechiæ. On dissection, gangrenous and eruption of petechiæ. On dissection, gangrenous spots have been found on the internal surface of the stomach. Its baneful effects are best counteracted by a powerful emetic, and by drinking largely of the vege-

Henbane has been used in various spasmodic and painful diseases, as in epilepsy, hysteria, palpitation, headache; paralysis, mania, and scirrlus. It is given in the form of the inspissated juice of the fresh leaves. the dose of which is from one to two grains; which requires to be gradually increased. It is sometimes employed as a substitute for opium, where the latter, from idiosyncrasy, occasions any disagreeable symp The henbane also is tree from the constipating

quality of the opium.

Dr. Brande has extracted a new alkali from this plant, which he calls hyosceania. It crystallizes in long prisms, and when neutralized by sulphuric or nitric acid, forms characteristic salts.

Hyperhyreol des. (From voices, the hypid bone, and  $\theta$  epocies, the thyroid carrilage.) A muscle named from its origin in the hypid bone, and insertion in the thyroid cartilage.

Πυρα στισα. (From υπαγω, to subdue.) Medicines

which evacuate the trees

Hypalet PTRUM. (From υπαλειφω, to spread upon.) spatula for spreading ointments with Medicines

HYPE LATA. (From υπελαω, to move.) which purge.

HYPER ETHE SIS. (From υπερ. and αισθανομαι,

Error of appetite, whether by excess or de-HYPERCATHA'RSIS. (From υπερ, supra, over or

above, and kadhagon, to purge.) Hyperinesis; Hyperinesis, Hyperinesis,

HYPE RCRISIS. (Υπερκοισις; from υπερ, over or above, and κριγω, to separate.) A critical excretion above measure; as when a fever terminates in a looseness, the humours may flow of laster than the strength

can bear, and therefore u is to be cheeked.

HYPERE MDSIS. (From vmep, in excess, and εμεω, to vomit.) An excessive exacuation by vomiting.

HYPEREPHINO SIS. (From vmep, excess) and

10ρως, sweat.) Immoderate sweating.

HYPE RICUM. (From υπρ. over, and εικων, an image or spectre: so named because it was thought to have powerover and to drive away evil spirits.)
The name of a genus of plants in the Linuxan syst Class, Polyadelphia; Order, Polyandria. St. John's

2. The pharmacopæial name of the common St.

John's wort. See Hypericum perfoliatum.
Hypericum Racciferum. Caa-opia; HYPERICUM BACCIFERUM. gummifera Brazilensis. A juice exudes from the wounded bark of this plant, in the Brazils, which, in a dry state, resembles camboge, but is rather darker.

HYPERICUM CORIS. Coris lutea; Corès legitima cretica. Bastard St. John's wort. The seeds are

directic, emmenagogue, and antispasmotic.

Hypericum perfoliatim. The systematic name of the St. John's wort, called also fuga demonum; and of the St. John's work canculated segmentation. In a hypothesis of the hypothesis of

teemed by the ancients, internally in a great variety of diseases, and externally as an anodyne and discutient, but is now very rarely used. The flowers were formerly used in our pharmacopæla, on account of the great proportion of resinous oily matter, in which the medical efficacy of the plant is supposed in existing. the medical efficacy of the plant is supposed to reside, but are now omitted.

HYPERICUM SAXATILE. Hypericoides. are said to be diuretic and antispasmodic.

HYPERI'NA. (From υπερ, in excess, and ινεω, to Medicines which purge excessively.

HYPERINE'SIS. See Hypercatharsis. HYPERI'NOS. See Hypercotharsis.

HYPERINE SIS. See Hypercultures.
HYPERI'NOS. See Hypercultures.
HYPERO'A. (From υπερ, above, and ωον, the top of a house.) The palate.
HYPEROFIARINGE'US. (From υπερ, above, and φαρυγέ, the pharynx.) A muscle named from its situation above the pharynx.
HYPEROSTO'SIS. (From υπερ, upon, and ωον, a

See Exostosis

Hypero'um. (From υπερ, above, and ωον, the roof or palate.) A foramen in the upper part of the palate.

Hyperoxymuriate of potassa. See Murias potassæ lipperoxymuriate of potassa.

Hyperoxymuriatic acid. See Chlorine.
HYPEROXYMURIATE. A salt now called a chlo-

HYPERSARCO'MA. (From υπερ, in excess, and σαρξ, flesh.) Hypersarcosis. A fleshy excrescence. A polypus.

Hypersarco'sis. See Hypersarcoma. HYPERSTENE. Laurador schiller spar. Found in Labrador, Greenland, and Isle of Skye. It has a beautiful copper colour when cut and polished into

rings, broochies, &c.

Hyperydro'sis. (From υπερ, in excess, and υδωρ, water.) A great distention of any part, from water collected in it.

(From υπο, under, and εξοδος, passing Hype xopos.

out.) A flux of the belly.

HYPNO BATES. (From υπνος, sleep, and βαινω, to go.) Hypnobatasis. One who walks in his sleep.

MYNOLOGIA. (From υπνος, sleep, and λογος, a discourse.) A dissertation, or directions for the due regulation of sleeping and waking.

HYPNOPOLETICA. (From υπνος, sleep, and ποιεω, to cause.) Medicines which procure sleep. See

HYPNO'TIC. (Hipnoticus; from υπνος, sleep.)

ec Anodune.
HYPO-SULPHITE. A sulphuretted sulphite.

HYPOÆ'MA. (From  $v\pi\sigma$ , under, and  $\alpha \iota \mu a$ , blood; because the blood is under the cornea.) An effusion of red blood into the chambers of the eye.

Hypocarothis. One who labours under a low degree

Hypocatha 'Rsis. (From υπω, under, and καθαίοω, to purge.) It is when a medicine does not work so much as expected, or but very little. Or a slight purging, when it is a disorder. HYPOCAU'STRUM.

(From υπο, under, and καιω,

HYPOCAUNTIKUM. (From νπο, under, and κατω, to burn.) A stove, hot house, or any such like contrivance, to preserve plants from cold air.

HYPOCERCHNA LEON. (From νπο, and κερχνος, an asperity of the fances.) A stridulous kind of asperity

Hypocheo menos. (From υπο, under, and χεω, to

Pour.) Une who fabours under a cataract.

Hypocrition's iss. (From υπο, and χλωρωσις, the green-sickness.) A slight degree of chlorosis.

HYPOCHO'NDRIAC. (From υπο, under, and χουδρος, a cartilage.) 1. Belonging to the hypochondria.

2. A person affected with lowness of spirits. See

Hypochondriasis
Hypochondriac regions. Regiones hypochondriace; Hypochondria. The spaces in the abdomen that are under the castilages of the spurious ribs on each

HYPOCHONDRI'ASIS. (From υποχονδριακος, one

of energy; sadness and fear from uncertain causes, with a melancholic temperament.

The state of mind peculiar to hypochondriacs is thus described by Cullen:—"A langour, listlessness, or want of resolution and activity, with respect to all undertakings; a disposition to seriousness, sadness, and timidity, as to all future events, and apprehension of the worst or most unhappy state of them; and, therefore, often upon slight grounds, and apprehension of great evil. Such persons are particularly attentive to the state of their own health, to every the smallest change of feeling in their bodies: and from any unusual sensation, perhaps of the slightest kind, they apprehend great danger, and even death itself. In respect to these feelings and fears, there is commonly the most obstimate belief and persuasion." He adds, "that it is only when the state of mind just described is joined with indigestion, in either sex, somewhat in years, of a menancholic temperament, and a firm and rigid habit, that the disease takes the name of Hypochondriacessm."

The sear of the hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the state of mind peculiar to hypochondriac passons is in the hypochondriac passons is in the state of mind peculiar to hypochondriac

The seat of the hypochondriac passions is in the stomach and bowels; for, first these parts are disordered, then the others suffer from the connexion. The causes are, sorrow, fear, or excesses of any of the passions; too long continued watching; irregular diet. Those habitually disposed to it (and these causes have little effect in other constitutions.) have generally a sal-low or brown complexion, and a downcast look; a rigidity of the solids, and torpor of the nervous system. Whatever may occasion nervous disorders in general,

may also be the cause of this.

The signs of this complaint are so various, that to describe them is to describe almost every other disease : but, in general, there is an insurmountable indolence, dejected spirits, dread of death, costiveness, a slow and somewhat difficult inspiration, flatulencies in the prima viz, and various spasmodic affections. It is seldom fatal; but if neglected, or improperly treated, may bring on incurable melancholy, jaundice, madness, or

oring on incursable hetancholy, jaundice, inadness, or vertiso, palsy, and apoplexy.

On dissections of hypochondriacal persons, some of the abdominal viscera (particularly the liver and spleen) are usually found considerably enlarged. In some few instances, effusion and a turgescence of the

vessels have been observed in the brain

This being a disease of a mixed description, the treatment must be partly corporeal, partly mental; but it has been too often neglected, as merely imaginary, and their complaints met by argument or raillery, which, however, can only weaken their confidence in the practitioner. It may be very proper to inform them, that their disorder is not so daugerous as they suppose, and may be removed by suitable remedies; but to tell them they ail nothing, is absurd. In reality, medicine is often of much service; and though others have been is orien of much service; and though others have been cared chiefly by annusements, country air, and exer-cise, it by no means follows, that their disorder-was only in the imagination. In so far as dryspeptic symptons appear, these mas? be encountered by the inactices poserted one under that head; antacids, aperients, &c. Sometimes empleys, or drastic calbacides, have pro-duced speeds relief; but they a too definition; to be origen employed. The bowers will be better regulated by milder remaines, as castor oil, semia, aloes, funiess they are subject to hamorrhouls; and the like; and magnesic may at the same time-correct ascidity; but if the lives be been also some mercurical preparation will be the liver be to put, some mercurial preparation will be or more avail. Flatulence and spasmodic pains may be relieved by aromatics, etter, the feetid gum resus, russk, valurian, &c. but severe and obstinate pain, or high irritation, will be best attacked by opium: it is supportant, however, to guard against the patient getter; into the habitaal use of this remody. Occasionally, wild to the analysis and a second to be a part of the patient getter; into the habitaal use of this remody. ten into the habitual use of this remedy. Occasionally, mild tonics appear useful, especially chalybeate waters; and tepid bathing, with friction, gentle exercise, and warm clothing, are important to keep up the fusction of the skin. The diet should be light, and sufficiently nutritious; but moderation must be enjoined to those who have been accustomed to indulge joined to those who have been accustomed to include too much in the luxuries of the table and, in all cases, those articles which are ascescent, flatulent, or difficult of digestion, must be avoided. Malt liquors do not usually agree so well as wine or spirits, considerably diluted; but these stimuli should never be allowed unnecessarily. The mental treatment required will be such as is calculated to restore the strength, and correct the aberrations of the judgment. When any

Hypocle Pricum. (From vmo, under, and khentw, to steal.) A chemical vessel for separating liquors, particularly the essential oil of any vegetable from the water; and named because it steals, as it were, the water from the oil.

Hypocogron. (From υπο, under, and κοιλου, a cavity.) The cavity under the lower evelid.

cavity.) The cavity under the lower eyelid.

Hypoca Num. (From wro, under, and κρανιον, the skull.) A kind of abscess, so called because seated under the cranium, between it and the dure mater.

HYPOCRATERIFORMIS. (From wro, χρατηρ, a cup, goblet, or salver, and forma, likeness.) Hypocrateriform, salver-shaped; applied to leaves so shaped, as those of the Primuda.

Hypoperials. In Rufus Ephesius, it is the extremity of the forepart of the neck.

Hypoperians.

Hyeone Raus. (Prom υπο, under, and δερμα, the skin.) 1. The skin over the clitoris, which covers it like a prepuce.

2. The clitoris.

Hypo'DESIS. (From υπο, under, and δεω to bind.)

Hypodesmus. An underswathe, or bandage.

HYPO'GΛΓΛ. (From υπο, under, and γαλα, milk;

because it is a milk-like effusion under the cornea.) collection of white humour, like milk, in the chambers of the eye. There are two species of this disease; the of the eye. There are two species of this disease; the one takes place, it is said, from a deposition of the milk, as is sometimes observed in women who suckle, the other from a depression of the milky cataract. HYPOGA'STRIC. (From vro, under, and γαχηρ, the stomach.) Belonging to the hypogastria. See

Hupogastrium.

Hypogastric Arteries. Of or belonging to the hypogastrium. See Hiac arteries.

Hypogastric region. See Hypogastrium.

HYPOGASTRIUM. (From wwo, under, and yasyo, the stomach.) Regio hypogastrica. The region of 

https://discretion.html. (From  $v\pi\sigma_0$ , under, and  $\gamma\lambda\omega\sigma\sigma\sigma_0$ , the tongue.) The under part of the tongue, which adheres to the jaw. If POGLO SSUS. (From  $v\pi\sigma_0$ , under, and  $\gamma\lambda\omega\sigma\sigma\sigma_0$ , the tongue.) A nerve which goes to the under part of

Hereforgue.

IIYPOGLO'TTIDES. (From  $\nu\pi\sigma$ , under, and  $\gamma\lambda\omega\tau/2a$ , the tongue.) They are a kind of lozenge to be held under the tongue until they are dissolved.

HYPOGLU'TIS. (From  $\nu\pi\sigma$ , under, and  $\gamma\lambda\sigma\nu\tau\sigma$ s, the nates.) It is the fleshy part under the nates towards the thigh. Some say it is the flexure of the

coxe, under the nates.

Hypo'mia. (From  $v\pi o$ , under, and  $\omega_{L} o g$ , shoulder.)
In Galen's Exegesis, it is the part subjacent to the

shoulder.

HYPONITRIC ACID. See Witric acid.

HYPONITROUS ACID. Pernitrous acid. "It appears from the experiments of Gay Lussac, that there exists an acid, formed of 100 azote and 150 oxygen. When into a test tube filled with mercury, we puss up from 500 to 600 volumes of deutoxide of azote, a little alkaline water, and 100 parts of oxygen gas, we obtain an absorption of 500, proceeding from

the condensation of the 100 parts of oxygen with 400 of deutoxide of azote. Now these 400 parts are composed of 200 azote and 200 oxygen; consequently, the hyposulphureous acid, Herschel mixed a dilute of 100 to 150, as we have said above. It is the same acid, according to Gay Lussec, which is produced on leaving for a long time a strong solution of potassa in contact with deutoxide of azote. At the end of three leaving for a long time a strong solution or potassa in contact with deutoxide of azote. At the end of three months he found that 100 parts of deutoxide of azote were reduced to 25 of protoxide of azote, and that crystals of Apponitric (permitric) were formed. Hyponitrous acid (called permitrous by the French chemists) cannot be insulated. As soon as we lay hold, by an acid, of the potassa with which it is associated, it is transformed into deutoxide of azote, which is disagnaged and into nitrous or nitric acid, which

is disengaged, and into nitrous or nitric acid, which remains in solution."

Hypo'nomos. (From υπονομος, a phagedenic ulcer.) A subterraneous place

A deep phagedenic ulcer.

HYPO NOMOS. (From υποιομος, a phagedenic ulcer.)

1. A subterraneous place.

2. A deep phagedenic ulcer.

Hypope dill. (From υπο, under, and πους, the foot.) A cataplasm for the sole of the foot.

Hypope dill. (From υπο, under, and πους, the foot.) A cataplasm for the sole of the foot.

Hypope dill. (From υπο, under, and πους, the foot.) A cataplasm for the sole of the foot.

Hypope dill. (From υπο, under, and πους, the foot.) A cataplasm for the sately discovered by Dulong. Pour water on the phosphuret of barytes, and wait till all the phosphureted hydrogen be disengaged. Add cautiously to the filtered liquid dilute sulphuric acid, till the barytes be all precipitated in the state of sulphate. The supernatant liquid is hypophosphorous acid, which should be passed through a filter. This liquid may be concentrated by evaporation, till it become viscid. It has a very sour taste, reddene vegetable blues, and does not crystallize. It is probably composed of 2 primes of phosphorus = 3 + 1 of oxygen. Dulong's analysis approaches to this proportion. He assigns, but from rather precarious data, 100 phosphorus to 37.64 oxygen. The hypophosphites have the remarkable property of being all soluble in water; while many of the phosphates and phosphites are insoluble.

HYPOPHTHALMION. (From υπο, under, and φθαλμος, the eye.) The part under the eye which is subject to swell in a cachexy, or dropsy.

Hypophoral and cachexy, or dropsy.

Hypophoral and cachexy or dropsy.

Hypophoral hypophosphoral and συμο, pus; because the pus is under the cornea.) Hypophoral Pyosis; Abscessus oculs. An accumulation of a glutinous yellow fluid, like pus, which takes place in the nuterior chamber of the aqueous humour, and frequently also in the posterior one, in consequence of severe, acute ophthalmy, particularly the internal species. This viscid matter of the hypopyum, is commonly called pus; but Scarpa contends, that it is only coagulating lymph. The symptoms portending an hypopyum, are the same as those which occur in the highest stage of v

hypopuni, are the same as those which occur in the highest stage of violent acute ophthalmy, viz. prodigious tumefaction of the eyelids; the same swelling and redness as in chemosis; burning heat and pain in the eye; pains in the eyebrow, and nape of the neck; fever, restlessness, aversion to the faintest light, and a contracted state of the pupil.

Hypori'mion. (From υπο, under, and ριν, the nose.) name for the parts of the upper lip below the

HYPOSA'RCA. (From υπο, under, and σαρξ, flesh.) Hyposarcidios.

Hypospadia'os. (From vno, under, and onac draw.) The urethra terminating under the glans. (From υπο, under, and σπαω, to

When the property of the state was performed.

(From υπο, under, and σφαζω, gma. An extravasation of blood HYPOSPHA'GMA. to kill.) Aposphagma. An extravasation of blood in the unica adnata of the eye, from external injury.

Hyposple'nia. (From υπο, under, and σπλην, the spleen.) A tumour under the spleen. Hyposta'fhyle. (From υπο, and ξαφυλη, the uvula.) Relaxation of the uvula.

Hypo's TASIS. (From υφιςημι, to nubside.) A sedi-

HYPOSULPHUREOUS ACID. "In order to obtain hyposulphureous acid, Herschel mixed a dilute solution of hyposulphite of strontites with a slight exsolution of hyposulphite of strollites while a single cases of dilute sulphuric acid, and, after aguation, poured the mixture on three filters. The first was received into a solution of carbonate of potassa, from the case of the carbonic acid gas. The second portion being received successively into nitrates of silver tion being received successively into mirrates of suver and mercury, precipitated the metals copiously in the state of sulphurets, but produced no effect on solutions of copper, iron, or zinc. The third, being tasted, was acid, astringent, and bitter. When fresh filtered, it was clear; but it became milky on standing, depositing sulphur, and colouring sulphureous acid. A moderate exposure to air, or a gentle heat, caused its en-

tire decomposition."
HYPOSULPHURIC ACID. "Gay Lussac and Welther have recently announced the discovery of a new acid combination of sulphur and oxygen, intermenew acti combination of sulpinir and oxygen, intermediate between sulpinireous and sulphuric acids, to which they have given the name of hyposulpinire acid. It is obtained by passing a current of sulpinireous acid gas over the black oxide of manganese. A combination takes place; the excess of the oxide of manganese is separated by dissolving the hyposulphate manganese is separated by dissorting the hyposurphate of manganese, in water. Caustic barytes precipitates the manganese, and forms with the new acid a very soluble salt, which, freed from excess of barytes by a current of carbonic acid, crystallizes regularly, like the ultrate or muriate of barytes. Hyposulphate of barytes being thus obtained, sulphuric acid is cautiously added to the solution, which throws down the barytes, and leaves the hyposulphuric acid in the wa-This acid bears considerable concentration under the receiver of the air-pump. It consists of five parts of oxygen to four of sulphur. The greater number of the hyposulphates, both earthy and metallic, are soluble, and crystallize; those of barytes and lime are unalterable in the air.

Hyposulphuric acid is distinguished by the following

1st. It is decomposed by heat into sulphurous and sulphuric acids.

2d, It forms soluble salts with barytes, strontites, lime, lead, and silver

Inne, lead, and silver.

3d, The hyposulphates are all soluble.

4th, They yield sulphurous acid when their solutions are mixed with acids, only if the mixture becomes hot of itself, or be artificially bested.

5th, They disengage a great deal of sulphurous acid at a high temperature, and are converted into neutral

HYPO'THENAR. (From υπο, under, and θεναρ, the palm of the hand.) 1. A muscle which runs on the palm of the hand.) the inside of the hand.

That part of the hand which is opposite to the

HYPO'THESIS. An opinion, or a system of general rules, founded partly on fact but principally on conjecture. A theory explains every fact, and every circumstance connected with it; an hypothesis ex-

plains only a certain number, leaving some unac-counted for, and others in opposition to it. HYPO "THETON. (From υπο, under, and τιθημι, to put.) A suppository, or medicine introduced into rectum, to procure stools.

Hypo xylon. (From υπο, and ξυλου, wood. cies of clavaria, which grows under old wood. A spe-

Hypozo MA. (From round.) The diaphragm. (From υπο and ζωννυμι, to bind

Hypstoto'ssus. (From  $v\psi\iota\lambda o \varepsilon\iota\delta \varepsilon_s$ , the hyoid bone, and  $\gamma\lambda\omega\sigma\sigma a$ , the tongue.) A muscle named from its origin in the os hyoides, and its insertion in the

HYPSILOI'DES. 1. The Os hyoides. 2. The hyoglossus muscle.

HYPTIA's MOS. (From υπ Γιαζω, to lie with the face upwards.) A supine decubiture, or a nausea, with inclination to vomit.

Hypu'Lus. (From υπο, under, and ουλη, a cicatrix.)

Hype I.es. (crom was, under, and woods, An ulcer under a cicatrix.

HYSSOP. See Hyssopus.

Hyssop hadge. See Gratiola.

Hyssopt Tes. (From wasωπος, hyssop.) Wine impregnated with hyssop.

HVSSO'PUS. ('Υσσωπος; from Azob, Hebrew.)

1. The name of a genus of plants in the Linnæan sys-Class, Didynamia; Order, Gymnospermia.

Hyssop.

2. The pharmacopœial name of the common hyssop. See Hyssopus officinalis.

Hyssofus Cafitata. Wild thyme.

Hyssofus officinalis. The systematic name of the common hyssop. Hyssopus—spicis secundis, folio lancolatis of Linneus. This exotic plant is esteemed as an aromatic and stimulant, but is chiefly employed as a pectoral, and has long been thought useful in humoral asthmas, coughs, and catarrhal affections; for this purpose, an infusion of the leaves, sweetned with honey, or sugar, is recommended to be drank as tea.

be drank as tea.

HY'STERA. (From 15605, behind: so called because it is placed behind the other parts.) The womb The womb.

HYSTERA'LGIA. (From 15cpa, the womb, and alyas, pain.) A pain in the womb.

HYSTE'RIA. (From 15cpa, the womb, from which the disease was supposed to arise.) Passio hysterica. Hysterica. Dr. Cullen places this disease in the class Neuroges, and order Spasmi. There are four species: 1. Hysteria chlorotica, from a retention of the

Hysteria d leucorrhæa, from a fluor albus. Hysteria à menorrhagia, from an immoderate

flow of the menses.

Hysteria libidinosa, from sensual desires. The complaint appears under such various shapes, imitates so many other diseases, and is attended with such a variety of symptoms, which denote the animal and vital functions to be considerably disordered, that it is difficult to give a just character or definition of it; and it is only by taking an assemblage of all its appearand it is only by taking an earth and it is only by taking an east, that we can convey a proper idea of it to others. The disease attacks in paroxysins, or fits. These are The disease attacks in paroxysins, or fits. These are sometimes preceded by dejection of spirits, anxiety of mind, effusion of tears, difficulty of breathing, sickness at the stomach, and palpitations at the heart; but it more usually happens, that a pain is felt on the left side, about the flexure of the colon, with a sense of distention advancing upwards, till it gets into the stomach, and removing from thence into the throat, it occasions, by Its pressure, a sensation as if a ball was lodged there, which by authors has been called globus hystericus. The disease having arrived at this height, the patient appears to be threatened with suffocation, becomes faint, and is affected with stupor and insensibility; while, at the same time, the trunk of the body is turned to and fro, the limbs are variously agitated; wild and 'irregular actions take place in alternate fits of laughter, crying, and screaming: Incoherent exmind, effusion of tears, difficulty of breathing, sickness wild and irregular actions take place in alternate fits of laughter, crying, and screaming: incoherent expressions are uttered, a temporary delirium prevails, and a frothy saliva is discharged from the mouth. The spasms at length abating, a quantity of wind is evacuated upwards, with frequent signing and sobbing, and the woman recovers the exercise of sense and motion without any recollection of what has taken place during the fit; feeling, however, a severe pain in her head, and a soreness over her whole body. In some cases there is little or no convulsive motion, and the cases, there is little or no convulsive motion, and the person lies seemingly in a state of profound sleep, withperson hessessingly in a state of process as expension of the content of the cont known to continue for two or three days, during which it frequently seems as if it would suffocate the patient, and proceeds, gradually weakening her, till it either goes off or else occasions death by suffocation: but this last is extremely rare. Besides hiccup, other slight spasmodic affections sometimes wholly form a fit of hysteria, which perhaps continue for a day or two, and then either go off of themselves, or are re-moved by the aid of medicine. In some cases the pamoved by the aid of medicine. In some cases the patient is attacked with violent pain in the back, which extend from the spine to the sternum, and at length become fixed upon the region of the stomach, being evidently of a spasmodic nature, and often prevailing in so high a degree as to cause clammy sweats, a pale cadaverous look, coldness of the extremities, and a pulse hardly perceptible.

Hysteric affections occur more frequently in a single state of life them in the married; and usually between

the age of puberty and that of thirty-five years; and they make their attack oftener about the period of menstruation than at any other

They are readily excited in those who are subject to them, by passions of the mind, and by every considerable emotion, especially when brought on by surprise; hence, sudden joy, grief, fear, &c. are very apt to occasion them. They have also been known to arise from imitation and sympathy

Women of a delicate habit, and whose nervous syswomen of a delicate nabit, and whose nervous sys-tem is extremely sensible, are those who are most sub-ject to hysteric affections; and the habit which predis-poses to their attacks, is acquired by inactivity and a sedentary life, grief, anxiety of mind, a suppression or obstruction of the menstrual flux, excessive evacua-tions, and a constant use of a low diet, or of crude un-

Hysteria differs from hypochondriasis in the following particulars, and, by paying attention to them, may always readily be distinguished from it:—Hysteria atalways readily be distinguished from it:—Hysteria at-tacks the sanguine and piethoric; comes on soon after the age of puberty; makes its onset suddenly and vi-olently, so as to deprive the patient of all sense and voluntary motion: is accompanied with the sensation of a ball rising upwards in the throat, so as to threaten suffocation; is attended usually with much spasmodic affection; is more apt to terminate in epilepsy than in any other disease; and, on dissection, its morbid ap-pearances are confined principally to the uterus and

The reverse happens in hypochondriasis. the melancholic; seldom occurs till after the age of thirty-five; comes on gradually; is a tedious disease, and difficult to cure; exerts its pernicious effects on the membraneous canal of the intestines, as well by spasms as wind; is more apt to terminate in melancholy, or a low fever, than in any other disease; and, on dissection, exhibits its morbid effects principally on the liver, spleen, and pancreas, which are often found in a dis-

Another very material difference might be pointed out between these two diseases, which is, that hysteria is much relieved by advancing in age, whereas hypo-

is much relieved by advancing in age, whereas hypo-chondriasis usually becomes aggravated.

The two diseases have often been confounded to-gether; but, from considering the foregoing circum-stances, it appears that a proper line of distinction should be drawn between them.

should be drawn between them.

The hysteric passion likewise differs from a syncope, as in this there is an entire cessation of the pulse, a continuous and a shastly countenance; whereas, in as in this there is an entire cessation of the puise, a contracted face, and a ghastly countenance; whereas, in the uterine disorder, there is often something of a colour, and the face is more expanded; there is likewise a pulse, though languid; and this state may continue some days, which never happens in a syncope.

some days, which never happens in a syncope. It also differs from apopleay, in which the abolition of sense and voluntary motion is attended with a sort of snoring, great difficulty of breathing, and a quick pulse; which do not take place in hysteria. It differs from epilepsy, in that this is supposed to arise in consequence of a distention of the vessels of the brain: whereas, in hysteria, the spasmodic and convulsive motions arise from a turgescence of blood in the uterus, or in other parts, of the genital system. However dreadful and alarming any hysteric fit may appear, still it is seldom accompanied with danger, and the disease never terminates fatally, unless it changes into epilepsy, or that the patient is in a very weak reduced state.

duced state

duced state.

The indications in this disease are, 1. To lessen the violence of the fits. 2. To prevent their return by obviating the several causes. Where the attack is slight, it may be as well to leave it in a great measure to have its course. But where the paroxysm is severe, and the disease of no long standing, occurring in a young plethoric female, as is most frequent, and especially from suppression of the menses, a liberal abstraction of blood should be made, and will often afford speedy relief. If this step do not appear advisable, and the disorder be rather connected with the state of the prime viæ, an emetic may check its progress, if the patient can be got to swallow during a remission of the convulsions. At other times the application of cold water to the skip more or less extensively; strong and water to the skin more or less extensively; strong and disagreeable odours, as hartshorn, burnt feathers, &c.; rubbing the temples with ether; antispasmodics, parstate of life than in the married; and usually between | ticularly opium, by the mouth or in glyster: the pedi-

Iuvium, &c. may be resorted to according to the state of the patient. During the intervals, we must endeavour to remove any observable predisposition; in the your to remove any observable predisposition; in the plethoric, by a spare diet, exercise, and occasional purgatives; in those who are weakly, and rather deferent in blood, by proper nourishment, with chalybeates, or other tonic medicines. The state of the uterna function must be particularly attended to, as well as that of the prime viæ; those catharties are to be preferred which are not apt to occasion flatulence, nor particuwhich are not apt to occasion flattilence, nor particu-larly irritate the rectum, unless where the menses are interrupted, when the aloctic preparations may claim a preference; and the perspiration should be main-tained by warm clothing, particularly to the feet, with the prudent use of the coid bath. The mind ought also to be occupied by agreeable and useful pursuits, and regular hours will tend materially to the restoration of the graneral health. the general health.

HYSTERIA LGES. (From  $v_5 \varepsilon \rho a$ , the womb, and  $a\lambda$ - $o_5$ , pain.) 1. An epithet for any thing that excites

2. Hippocrates applies this word to vinegar.
3. The pains which resemble labour pains, generally called false pains.
HYSTERITIS. (From v5tpa, the womb.) Metritis. Inflammation of the womb. A genus of disease trius. Inhammaton of the womb. A process of Culten: in the class Pyrezie, and order Phlegmaster, of Culten: characterized by fever, heat, tooson, tumour, and pain in the region of the womb; pain in the os uteri, when touched, and vomiting.

In natural labours, as well as those of a laborious sort, many causes of injury to the uterus, and the perisort, many causes of injury to the uterus, and the per-tonaum which covers it, will be applied. The long continued action of the uterus on the body of the child, and the great pressure made by its head on the soft parts, will further add to the chance of injury. Besides these, an improper application of asstruments, or an officiousness of the midwide in hurrying the labour, may have contributed to the violence. To labour, may have contributed to the violence. To these causes may be added exposure to cold, by taking the woman too early out of bed after delivery, and thereby throwing the circulating fluids upon the internal parts, putting a stop to the secretion of milk, or occasioning a suppression of the lochia.

An inflammation of the womb is sometimes perfectly distigct, but is more frequently communicated to the peritoneum, Fallopian tubes, and owaria; and having once begun, the natural functions of the organization which greatly adde to the

become much disturbed, which greatly adds to the disease. It is oftener met with in women of a robust and plethoric habit than in those of lax thres and a de-licate constitution, particularly where they have in-dulged freely in food of a heating nature, and in the use of spirituous fiquors. It never prevails as an epi-demic, like puerperal fever, for which it has probably often been mistaken; and to this we may, with some reason, ascribe the diderence in the mode of treatment which has taken place among physicians.

An inflammation of the uterus shows itself usually beaut the second or third day along dilivery with a

about the second or third day after delivery, with a painful sensation at the bottom of the belly, which gradually increases in violence, without any kind of intermission. On examining externally, the uterus appears much increased in size, is hard to the feel, and on making a pressure upon it, the patient experiences on making a pressure upon it, the patient experiences great soreness and pain. Soon afterward there ensues an increase in heat over the whole of the body, with pains in the head and back, extending into the groins, rigors, considerable thirst, nausea, and vomiting. The tongue is white and dry, the secretion of milk is usually much interrupted, the lochia are greatly diminished, the urine is high-coloured and scanty; the body is costive, and the pulse hard, full, and frequent.

These are the symptoms which usually present themselves when the inflammation does not run very high, and is perfectly distinct; but when it is so extensive as to affect the peritonoum, those of irritation succeed,

and soon destroy the patient.

Uterine inflammation is always attended with much danger, particularly where the symptoms run high, and the proper means for removing them have not been timely adopted. In such cases, it may terminate in suppuration, scarthus, or gangrene.

Frequent tigors, succeeded by flushings of the face, quickness and weakness of the pulse, great depression of strength, delirium, and the sudden cessation of pann and soreness in the region of the abdomen, denote a itial termination. On the contrary, the cusung of a gentle diarrhea, the lochial discharge returning in due gentle diarrhea, the lochial dischaige returning in due quantity and quality, the secretion of milk recommending, and the uterus becoming gradually softer and less tender to the touch, with an abatement of heat and thirst, prognosticate a favourable issue.

When shiverings attack the patient, after several days' continuance of the symptoms, but little relief can be afforded by medicine, the event being generally fattal. In this case, the woman emicrates and loses her strength hereomes begins and sinks under cultimatics.

strength, becomes hectic, and sinks under colliquative

sweating, or purging.
Upon opening the bodies of women who have died of this disease, and where it existed in a simple state, little or no extravasated fluid is usually to be met with in the cavity of the abdomen. In some instances, the peritonnal surfaces have been discovered free from the peritonical surfaces have been discovered free from the disease; while in others, that portion which covers the uterus and posterior part of the bladder, has been found partially inflamed. The inflammation has been observed, in some cases, to extend to the ovaria and Fatlopian tubes, which, when cut open, are often loaded with blood. The uterus itself usually appears of a firm substance, but is larger than in its natural state, and, when cut into, a quantity of pass is often found. Caucrene is seldom if ever to be is often found. Gaugrene is seldom, if ever, to be

HYSTEROCE'LE. (From  $v_5\varepsilon\rho a$ , the womb, and  $\kappa \eta_i h \eta_i$  a tumour.) A hernia of the womb. This is occasioned by violent muscular efforts, by blows on the abdomen at the time of gestation, and also by wounds and abscesses of the abdomen which permit the uterus to dilate the part. Ruysch relates the case of a woman, who, becoming pregnant after an ulcer had been healed in the lower part of the abdomen, the tunid uterus descended into a dilated sac of the peritonaum in that weakened part, till it hung, with the included feetus, at her knees. Yet when her full time was come, the

ial way, she was safely delivered of a son.

Hy's teros. (From \$5500000, afterward; so named because it comes immediately after the fœtus.) The

accenta. HYSTEROPHY'SA. (From υςερα, the womb, and φωα, flatus.) A swelling, or distention of the womb, from a collection of air in its cavity.

HYSTERO TOMY. (Hysterotomia; from υξερα,

the womb, and τεμνω, to cut.) See Casarian ope-

ration.

Hysterotomagoria. See Casarian operation.

Hysteropto'sis. (From vycoa, the womb, and

### the control of fall.) A bearing down of the womb.

Hystric'asis. (From vyci, a hedge-hog, or

porcupine.) A disease of the hairs, in which they

stand erect, like porcupine quills. An account of this

rare disease is to be seen in the Philosophical Trans
actions, No. 424.

Hystricis labis. See Bezoar hystricis.

Hystricis Labis. See Hysteritis.

TATRALEIPTES. (From tarpos, a physician, and  $a\lambda \varepsilon t\phi \omega$ , to anoint.) One who undertakes to cure distempers by external unction and friction: Galen makes mention of such in his time, particularly one Diotas; and Pliny informs us, that this practice was first introduced by Pradicus of Selymbria, who was a disciple of Escularius. Æsculapius

IATROCHY MICUS. (From tarpos, a physician IATROCHY MICCS: (From tarpos) a possionar, and χυμα, chemistry. O Chymiater. A chemical physician, who cures by means of chemical medicines. IATROLIPTICE. (From tarpos, a physician, and αλειφω, to anoint.) The method of curing diseases by

unction and friction

IATROPHY SICUS. (From taroos, physician, and prots, nature.) An epithet bestowed on some writings which treat of physical subjects with relation to

IBE'RIS. (So named from Iberia, the place of its natural growth.) 1. The name of a genus of plants in the Linnman system. Class, Tetradynamea; Order,

2. The pharmacopæial name of the Sciatica cresses. See Lepidium iberis.

IBERA CE. See Gualacum.
IBERA CE. See Gualacum.
IBES. ISt<sub>5</sub>. A bird much like our kingfisher, taken notice of by the Egyptians, because, when it was sick, it used to inject with its long bill the water of the Nile into its fundament, whence Langius, lib. ii. ep. it.

Nile into its fundament, whence Liangius, its, to epoche says they learned the use of clysters.

IBI'SCUS. (From this, the stork, who was said to chew it and inject it as a clyster.) Marshmallow. It is a clyster.) Marshmallow. (From this coop, the muliow, and those flue is o named from its having a glutinous leaf, like the mullow.) Suponaria arbor. The soap tree, prothe mallow.) Suponaria arbor. The soap tree, probably the Supindus suponaria of Linneus.

ICE. Glacies. Water made solid by the applica-

ICE. Glacies. Water made solid by the applica-tion of cold. It is frequently applied by surgeons to resolve external inflammatory diseases, to stop hæmorrhages, and constringe relaxed parts.

Iceland spar. A calcareous spar.

I CHOR. (Ιχωρ.) A thin, aqueous, and acrid dis-

charge. I'CTHYA.  $(J\chi\theta\nu\alpha, a \text{ fish-hook}; \text{ from } \iota\chi\theta\nu\varsigma, a \text{ fish.})$ 1. The skin of the squatena, or monkiish.
2. The name of an instrument like a fish-hook, for

2. The name or an instrument take a unit aroung an extraction the forus.

ICHTHYASIS. See Ichthyosis.

ICHTHYOCO'LLA. (From ιχθυς, a fish, and κολλα, quie.) Colla priscium. Isinglass. Fish glue.

This substance is almost wholly gelatin; 100 grains of the substance is almost wholly gelatin; 100 grains of the principal parts, more than 98 of good dry isinglass containing rather more than 98 of matter soluble in water.

Isinglass is made from certain fish found in the Danube, and the rivers of Muscovy. Withoughby and others inform us, that it is made of the sound of the Beluga; and Neumann, that it is made of the Huso Germanorum, and other fish, which he has frequently seen sold in the public markets of Vienna. Jackson seen sold in the public markets of victura. Jackson remarks, that the sounds of cod, properly prepared, afford this substance; and that the lakes of America abound with fish from which the very finest sort may be obtained.

Isinglass receives its different shapes in the following manner: the parts of which it is composed, particularly the sounds, are taken from the fish while sweet and fresh, slit open, washed from their slimy sordes, divested of a very thin membrane which envelopes the sound, and then exposed to stiffen a little in the In this state, they are formed into rolls about the thickness of a finger, and in length according to the intended size of the staple: a thin membrane is generelation of the stapic: a time memorane is generally selected for the centre of the roll, round which the rest are folded alternately, and about half an inch of each extremity of the roll is turned inwards. Isinglass is best made in the summer, as frost gives it a disagreeable colour, deprives it of weight, and impairs its gelatinous principles.

Isinglass boiled in milk forms a mild nutritious jelly, and is thus sometimes employed medicinally. This, and is thus sometimes employed medicinally. when flavoured by the ait of the cook, is the blanc-

manger of our tables A solution of isinglass in water, with a very small proportion of some balsam, spread on black silk, is the court-plaster of the shops.

[That variety of the codish called the Hake, and known to naturalists as the Gadus Mertuccius, has a very large sound or swimming bladder, which affords ichthyocolla in abundance. In 1824, a quantity was presented to the New-York Lyceum of Natural History for their inspection, and a committee of that learned body made the following report on the sub-inst:

ject: "The Isinglass, or Ichthyccolla, made by Mr. Wil-iam Hall, at the Isle of Shoals, which was presented by him, for examination, at the last sitting of the Ly ceum, has been submitted to several experiments by the committee. It proved more pure than the Russian isingless, with which it was compared, possesses greater solubility, and exhibits more tenacity; and its solution resists longer the process of putrefaction; but it retains to a peculiar degree the unpleasant flavour

The result of the experiment induces the committee The result of the experiment induces the committee to recommend the article as a valuable acquisition to our domestic manufactures. It is found excellent in clarifying liquors, and merits the particular attention of brewers; it is valuable in preparing leather, rendering it soft and phable, and deserves to be employed in corten manufactories for glazing, and starching generally. In its present state, however, it would not be expressible as an article and representation of folds in

rally. In its present state, however, it would not be agreeable as an article in the preparation of food; it might be, if deprived of the fishy smell.

The form of the ichthyocolla from the Isle of Shoals, is far preferable to that of foreign manufacture. The peculiar shape of the isinglass from the Muscovy rivers was probably adopted to conceal and disguise the real substance, and to preserve the monopoly; but now, as the subtrefuge is no longer necessary, it is extraorded to assure every tweeters. sary, it is acknowledged to answer every purpose more effectually in its native state. In the rolled or curled form, it is more apt to retain oily particles and exuvia of insects between the membranes, that frequently contaminate the liquor for whose clarification it is employed. The sounds of the Cod (gadus morhua) and ployed. The sounds of the Cod (gadus morhua) and Ling (gadus molva) have long been used by Newfoundland and Iceland fishermen, and bear a strong resemblance to those of the genus Accipenser; the Huso (or Beluga) which family has always supplied Muscovy (to which country we are originally indebted for it) with this article of commerce. Mr. Hall, alone, as far as we know, employs the Hake (gadus merluccius) and he offers his isinglass at \$4,000 a ton, nearly one quarter less than we pay for the foreign, of which 100 tons are every year imported. If the manufacture succeeds, of which (with captall and zeal) we little doubt, it will save yearly from 80 to \$100,000 to our citizens; at the same time it opens to them a field of enterprise which will yield annually from 4 to \$5,000, and terprise which will yield annually from 4 to \$5,000, and

which must increase with the growth of our country.
In concluding, we may remark, that Mr. Hall employs the mode described in the 63d volume of the Transactions of the Royal Society of London, but without previously salting the sounds.

J. VAN RENSSELAER. J. E. DE KAY.

SAMUEL AKERLY. 3/F Mr. Hall observes that the unpleasant smell of the isinglas can be entirely extracted by three weeks' exposure to the night-air, after finished."—From the Statesman, Jua. 9th. 1824.] ICHTHYOPHTHAL'MITE. Fish eyestone. See

Apophyllite.
ICHTHYO'SIS. (From 1χθυα, the scale of a fish; from the resemblance of the scales to those of a fish.) from the resemblance of the section based in any fickings, a genus of diseases of the second order of Dr. Willan's disease of the skin. The characteristic of ichthyosis is a permanently harsh, dry, scaly, and in some cases, almost horny texture of the integraand in some cases, amost northy texture of the integn-ments of the body, unconnected with internal disorder. Psortass: and Lepia differ from this affection, in being but partially diffused, and in having deciduous scales.

The arrangement and distribution of the scales in ich- ! thyosis are peculiar. Above and below the electronon on the arm, says Dr. Willan, and in a similar situation with respect to the patella on the thigh and leg, they with respect to the patella on the thigh and leg, they are small, rounded, prominent, or papillary, and of a black colour; some of the scaly papillar have a short, narrow neck, and broad irregular tops. On some part of the extremities, and on the trunk of the body, the scales are flat and large, often placed like tiling, or in the same order as scales on the back of a fish; but, in a few cases, they have appeared separate, being intersected by whitish furrows. There is usually in this complaint a dryness and roughness of the soles of the feet; sometimes a thickened and brittle state of the feet; sometimes a thickened and brittle state of the skin in the palms of the hands, with large painful skin in the palms of the hands, with large painful skin in the paints of the hands, with large painting sures, and on the face an appearance of the scurf rather than of scales. The inner part of the wrist, the hams, the inside of the elbow, the ferrow along the spine, the inner and upper part of the thigh, are perhaps the only portions of the skin always exempt from the scaliness. Patients affected with inflamed pussare occasionally much hanassed with inflamed pussare. are occasionally much hanassed with inflamed pus-tules, or with large painful biles on different parts of the body; it is also remarkable, that they never seem to have the least perspiration or moisture of the skin. This disease did not, in any case, appear to Dr. Willan to have been transmitted hereditarily; nor was more than one child from the same parents affected with it. Dr. Willan never met with an instance of the horny rigidity of the integements, lehthyosis cornea, in-peding the motion of the muscles or joints. It is, how-ever, mentioned by authors as affecting the lips, pre-puge, toes, fingers, &c. and sometimes as extending

ever, mentioned by authors as affecting the flips, pre-puce, toes, fingers, &c. and sometimes as extending over nearly the whole body. ICOSA/NDRIA. (From exost, twenty, and camp, a man, or husband.) The name of a class of plants in the sexual system of Linneus, consisting of those which have hermaphrodite flowers furnished with twenty or more stamina that are inserted into the inner eide of the calyx, or petals, or both. By this last cir-cumstance is this class distinguished from *Polyandria*.

ICTERITIA. (From icterus, the jaundice.)
An eruption of yellowish spots.

2. A yellow discoloration of the skin.

ICTERUS. (Named from its likeness to the plumage of the golden thrush, of which Pliny relates, that if a jaundiced person looks on one, the bird dies, and the patient recovers.) Morbus arcuatus, or arquatus; Aurigo; Morbus regius; Morbus leseoti. The jaundice. A genus of disease in the class Cachezia, and order Impetigines, of Cullen; characterized by yellowness of the skin and eyes; fæces white, and urine

of a high colour. There are six species:—

1. Icterus calculosus, acute pain in the epigastric region, increasing after eating: gall-stones pass by

2. Icterus spasmodicus, without pain, after spasmodic diseases and passions of the mind.
3. Icterus mucosus, without either pain, gall-stones, or spasm, and relieved by the discharge of tough phlegm by stool.

4. Icterus hepaticus, from an induration in the liver. 5. Icterus gravidarum, from pregnancy, and disap

pearing after delivery.

Icterus infantum, of infants

It takes place most usually in consequence of an in-terrupted exerction of bite, from an obstruction in the ductus communis choledochus, which occasions its ab-sorption into the blood-vessels. In some cases it may, however, be owing to a redundant secretion of the bile. The causes producing the first species are, the presence of biliary calculi in the gall-bladder and its ducts; spasmodic constriction of the ducts themselves; and, lastly, the pressure made by tumours in adjacent parts; hence jaundice is often an attendant symptom on a scirrhosity of the liver, pancreas, &c., and on

pregnancy.
Chronic bilious affections are frequently brought on by drinking freely, but more particularly by spirituous liquors: hence they are often to be observed in the debauchee and the drinker of drams. They are likewise frequently met with in those who lead a sedentary life; and who indulge much in anxious thoughts. A slight degree of jaundice often proceeds from the redundant secretion of bile; and a billious habit is therefore constitutional to some people, particularly to those who reside logs; as mean, therefore.

those who reside long in a warm climate.

By attending to the various circumstances and symp toms which present themselves, we shall in general be able to ascertain, with much certainty, the real nature of the cause which has given rise to the disease.

of the cause which has given rise to the disease.

We may be assured by the long continuance of the
complaint, and by feeling the liver and other parts externally, whether or not it arises from disease of the
liver, namereas, or adjacent parts.

Where passions of the mind induce the disease,
without any hardness or enlargement of the liver, or

adjacent parts, and without any appearance of calculi

adjacent parts, and without any appearance of calculi in the faces, or on dissection after death, we are naturally induced to conclude that the disorder was owing to a spasmodic affection of the biliary ducts.

Where gall-stones are lodged in the ducts, acute lancinating pains will be felt in the region of the parts, which will cease for a time, and then return again; great irritation at the stomach and frequent vomiting will attend, and the patient will experience an aggravation of the pain after eating. Such calculi are of various sizes, from a pea to that of a walnut; and, in some cases, are voided in a considerable number, being, like the gall, of a yellowish, brownish, or green colour.

some cases, are voided in a considerable number, being, like the gall, of a yellowish, brownish, or green colour. The jaundice comes on with languor, inactivity, loathing of food, flatulence, acidities in the stomach and bowels, and costiveness. As it advances in its progress, the skin and eyes become tinged of a deep yellow; there is a bitter taste in the mouth, with frequent nausea and vomiting; the urine is very high-coloured; the stools are of a gray or clayer appearance, and a dull obstree man is felt in the right hyperchouse. and a dull obtuse pain is felt in the right hypochon-drium, which is much increased by pressure. Where

the pain is very acute, the pulse is apt to become hard and full, and other febrile symptoms to attend.

The disease, when of long continuance, and proceeding from a chronic affection of the liver, or other neighbouring viscera, is often attended with anasarcous swellings, and sometimes with ascites: also scorbutic symptoms frequently supervene.

Where jaundice is recent, and is occasioned by con-oretions obstructing the biliary ducts, it is probable that, by using proper means, we may be able to effect a cure; but where it is brought on by tumours of the neighbouring parts, or has arisen in consequence of neighbouring paris, of his arisin in consequence of other diseases attended with symptoms of obstructed viscera, our endeavours will most likely not be crowned with success. Arising during a state of preg-nancy, it is of little consequence, as it will cease on

On opening the bodies of those who die of jaundice, On opening the bodies of those who are of Jaunaice, the yellow tinge appears to pervade even the most interior part of the body; it is diffused throughout the whole of the cellular membrane, in the cartilages and bones, and even the substance of the brain is coloured with it. A diseased state of the liver, gall-bladder, or extensive the state of the coloured with the property of the coloured with the coloured

adjacent viscora, is usually to be met with.

The Interus infantum, or yellow gum, is a species
of jaundice which affects children, at or soon after
their birth, and which usually continues for some their birth, and which usually continues for some days. It has generally been supposed to arise from the meconium, impacted in the intestines, preventing the flow of bile into them. The effects produced by it are languor, indolence, a yellow tinge of the skin, and a tendency to sleep, which is sometimes fatal, where the child is prevented from sucking.

The indications in this disease are, 1. To palliate urgent symptoms. 2. To remove the cause of obstruction to the passage of the bile into the duodenum: this tion to the passage of the bile into the duodenum: this is the essential part of the treatment; but the means will vary according to circumstances. When there are appearances of inflammation, of which perhaps the jaundice is symptomatic, or both produced by a gall-stone, the means explained under the head of hepatitis will be proper. If there he severe spasmoute pain, as is usual when a gall-stone is passing, the liberal use of opium and the warm bath will probably relieve it. After which, in all instances, where there is reason for supposing an obstructing cause within the duct, a nauseating emetic, or brisk cathartic, would be reason for supposing an obstacting cause within the duct, a naiseating emetic, or brisk cathartic, would be the most likely to force it onward: emetics, however, and the most likely to force it onward: emetics, however, inflammation; and calomet, seeming to promote the discharge of bile more than other catharties, may be considered the chium. Several given in a large dose with or after the opium. given in a large user win or after the option. Several remedies have been recommended, on the idea that they may dissolve gall-stones; which, however, is hardly probable, unless they should have advanced to

the end of the common duct: the fixed a balles, other the end of the common duct. The fixed of a large, cline with oil of turpentine, raw eggs, &c. come under this head; though the alkalies may be certainly beneficial by correcting acidity, which usually results from a deficient supply of bile to the intestines; and possibly alter the secretion of the liver so much as to prevent the formation of more concretions. When the complant arises from scirchous tumours, mercury is the remedy most likely to afford relief, particularly should the liver itself be disea ed; but it must be used with proper caution, and hemlock, or other narcotic, may sometimes enable the system to bear it better. Where this remedy is precluded, nitric acid promises to be the best substitute, the taraxacum appears by no means so best substitute, the transactum appears by no means so much to be depended upon. In all tedious cases the strength must be supported by the vesetable bitters, or other tonics, and a mutifious dart, casy of digestion; there is often a dislike of animal food; and a craving for acids, which mostly may be indulged; indeed, when scorbute symptoms attended, the native vegetable acids have been sometimes very serviceable. bowels must be kept regular, and the other secretions promoted, to get rid of the bile diffused in the system; as well as to obviate febrile or inflammatory action. When accumulations of hardened faces induce the complaint, or in the ictorus infantane, catharties may be alone sufficient to afford relief: and, in that of pregnant females, we must chiefly look to the period of delivery.

ICTERUS ALBUS. The white jaundice. Chlorosis

is sometimes so called.
I'CTUS. 1. A streke or blow.
2. The pulsation of an artery.

2. The pursation of a carely.

3. The sting of a bee, or other insect.

ID.E.F.S. (From wh. 2 mountain in Phrygia, their native place.) A name of the peny and blackberry.

IDE. This terminal is affixed to oxygen, chlorine,

and iodine, when they enter into condunation with each other, or with simple combustibles or metals in proportions not forming an acid, thus or ide of chlorine, oz-ide of nitrogen, chlor-ide of sulphur, iod-ide

of iron. IDE'OLOGY. (Reologia; from  $\delta \epsilon \alpha$ , a thought, and  $\lambda \alpha \gamma \alpha$ , a discourse.) The doctrine or study of the understanding. "Whatever be the number and the diversity of the phenomena which belong to human Intelligence, however different they appear from the other phenomena of life, though they evidently depend on the soul, it is absolutely necessary to consider them as the result of the action of the brain, and to no no distinctive between them and the other where  $\delta \alpha$ distinction between them and the other phers at that depend on the actions of that organ. The thinktions of the brain are absolutely subject to the same laws as the other functions; they develope and go to decay in the progress of age; they are modified by ha-by, sex, temperament, and individual disposition; they become confescil, weakened, or elevated in discusses; the physical injuries of the brain weaken or destroy then in a wood, they are not susceptible of any ex-planation more than the other actions of the organ; and setting aside all hypothetical ideas, they are capa-ble of being studied only by observation and experience.

We must also be cautious in imagining that the study of the functions of the brain is more difficult than study of the functions of the brain is more difficult than that of the other organs, and that it appertains peculiarly to metaphysics. By keeping close to observation, and avonding carefully any theory, or conjecture, this study becomes purely physiological, and perhaps it is easier than the most part of the other functions, on account of the facility with which the phenomena can be produced and observed. The immunerable phenomena which form the intellect of man, are only modifications of the faculty of perception. If they are examined attentively, this truth, which is well illustrated by modern metaphysicians, will be found very clear.

There are four principal modifications of the faculty

1st. Sensibility, or the action of the bram, by which we receive impressions, either from within or from 2d. The Memory, or the faculty of reproducing im-

pressions, or sensitions formerly received.

3d The faculty of powering the relations which sensitions have to care. Size, or the Judgment.

4th. The Desires, or the Will.

The study of the understanding, from whatever cause, is not at present an essential part of physiology; the science which treats particularly of it is *Ideology*. Wheever may wish to acquire an extensive knowledge on this interesting subject, should consult the works of Bacon, Locke, Condillac, Cabanis, and especially the excellent book of Destutt Tracy, entitled "Elements

of Ideology."

1D10 PA'THIC. (Ideopatheus; from coes, peculiar, and rados, an affection). A disease which does not depend on any other disease, in which respect it is opposed to a systematic disease, which is dependent

opposed to a systematic disease, which is dependent on another.

IDIOSY'NCRASY. (Idiosyncrasia; from 18105, peculiari, you, with, and kpauts, a temperament.) Apeculiarity of constitution, in which a person is alleded by certain agents, which, if applied to a hundred other persons, would produce no effect; thus some people cannot see a finger bied without fainting; and thus violent inflammation is induced on the skin of some persons, by substances that are perfectly imposent to persons, by substances that are perfectly innocent to

others.

Into anota. (From thos, peculiar, and τρεπω, to turn.) The same as letiospherasia.

IDOCHASE. See Vesucian.

IASURIC ACID. Acidam Invasaricum. Pelletier and Carenton, in their elegant researches in the fields same to Ignature, et mas vanica, larving observed that these substances contained a new vegetable base (strychnine) in combination with an acid, sought to separate the latter, in order to determine its nature. rate the latter, in order to determine its nature. It appeared to them to be new, and they called it grasuric acid, from the Madaw name by which the natives designate to the lastes the feats where I guards. This hear, eccording to these chemists, its composed of ignamate of stayednine, a little wax, a concrete oil, a yellow colouring matter, gum, starch, bassorine, and vegetable fiber. table fibre.

To extract the acid, the rasped bean must be heated To extract the acid, the rasped bean must be heated in other, in a digester, with a valve of safety. Thus the concrete oil, and a little igasurate of strychnine, are dissalved out. When the powder is no longer acted on by the other, they subject it, at several times, to the action of boiling alkohol, which carries off the oil which had escaped the other, as also wax, which is deposited on cooling, some igasurate of strychnine, and odoming matter. All the alkoholic decoctions are united, filtered, and evaporated. The brownish-yellow residuum is diffused in water; magnesia is now added, and the whole is boiled together for some minutes. and the whole is boiled together for some minutes. By this means, the igasurate is decomposed, and from this decomposition there results free strychnine, and a and accomposition there results tree strychilde, and a sub-ignorate of magnesia, very little soluble in water. Washing with cold water removes almost completely the colouring matter, and beling alkohol then separates free strychilde, which falls down as the fiquid cools. Finally, to procure ignorate acid from the sub-ignorate relationship of the sub-ignorate relationship. of conducing matter, we must dissolve the magnesian salt in a great body of boiling distilled water; concentrate the liquor, and add to it acetate of lead, which immediately throws down the acid in the state of an igasurate of lead. This compound is then decomposed, by transmitting a current of sulphuretted hydrogen through it, diffused in 8 or 10 times its weight of boiling

This acid, evaporated to the consistence of syrup, and left to itself, concretes in hard and granular cry and left to itself, concretes in hard and granular crystals. It is very soluble in water, and in alkohol. Its taste is acid and very styptic. It combines with the alkaline and earthy bases, forming salts soluble in water and alkohol. Its combination with baryass is very soluble, and crystallizes with difficulty, and mushroom-like. Its combination with anamonia, when perfectly neutral, does not form a precipitate with the saits of silver, mercury, and itom; but it comports itself with the saits of copper in a peculiar manner, and what is some to characterize the acid of structures for the same acid is found in nur womica, and in smokes. the scare acid is found in nur comica, and in snakethe scale and is found in that concer, and it stocks work book to confewer; this effect consists in the decomposition of the salts of copper, by its ammoniacal compound. These salts pass munchiately to a green colour, and gradually deposite a greenish-white sail, of very sparing solubility in water. The acid of structures seems thus a resemble meconic acid; but it differs essentially from it, by its action with salts of iron,

which immediately assume a very deep red colour with the meconic acid; an effect not produced by the acid of strychnos. The authors, after all, do not positively affirm this acid to be new and peculiar.

In the flux of the plural of Re,  $E\lambda p_c$ .

The flux of the plural of Re,  $E\lambda p_c$ .

The flux is, or that part in which are enclosed the

stryckhas. The authors, after all, do not positively affirm this acid to be new and peculiar.

IGNA'TIA. (So named by Linmeus, because the seeds are known in the materia medica by the name of Saint Ignatius's beans.) The name of a genus of plants. Class, Pentandria; Order. Monograms. Ignativas's hean; Fabu mirea; Fabu Sancti Ignativs's hean; Fabu mirea; Fabu Sancti Ignativ; Fabu fibrifuga. These beans are of a goundish fugare, very treasible and innered, about the size of a middling nutmeg, semi-transparent, and of a hard, horny texture. They have a very bitter taste, and no considerable smell. They are said to be used in the Philippine islands in all diseases, acting as a vomit and purgative. Infusions are given in the cure of intermittents, &c.

IGNATI PARA. See Ignatia amara.
IGNATIUS'S BEAN. See Ignatia amara.
IGNATIUS'S BEAN. See Ignatia amara.
IGNIS. Fire. I. Van Heimont, Paracelsus, and other alchemists, applied this term to what they considered as universal solvents.

2. In medicine, the older writers used it to express several diseases characterized by external redness and

Ignis calidus. A hot fire: a gangrene: also a violent inflammation, just about to degenerate into a gangrene, were formerly so called by some.

IGNIS FATUES. A luminous appearance or flame, frequently seen in the night in different country places, and called in England Jack with a lantern, or Will with the visp. It seems to be mostly occasioned by the extrication of phosphorus from rotting leaves and other vegetable matters. It is probable, that the motionless ignes fatur of Italy, which are seen nightly on the same spot, are produced by the slow combustion of sulphur, emitted through clefts and apertures in the soil of that volcanic country.

Lons printidus. A cold fire. A sphacelus was so called, because the parts that are so affected become

as cold as the surrounding air.

least persectus. A name of the erysipelas, also of the carbuncle. See Inthrac. tents not a. Fire for fusion. It is when a vessel, which contains some matter for fusion, is surrounded with live, i. e. red-hot, coals.

IGNIS SACER. A name of crysipelas, and of a species

IGNIS SAPIENTIUM. Heat of horse-dung.

IGNIS SAPLENTICUS. THE ACT HOLE.

IGNIS SANCTI ANTONII. See Erysipelas.

IGNIS VOLAGRIUS. See Impetigo.

IGNIS VOLAGRIUS. See Erysipelas.

I'KAN RADIX. A somewhat oval, oblong, compressed root, brought from China. It is extremely rare, and would appear to be the root of some of the orchis

A name in Myrepsus for the burdoch. See Arctium lappa

I'LECH. By this word, Paracelsus seems to mean a

first principle.

Hippocrates describes it in lib. I'LEON CRUENTUM. De Intern. Affect. In this disease, as well as in the scurvy, the breath is feetid, the gums recede from the teeth, hæmorrhages of the nose happen, and sometimes there are ulcers in the legs, but the patient can move

I'LEUM. (From ειλεω, to turn about; from its convolutions.) Heum intestinum. The last portion of the small intestines, about fifteen hands' breadth in length, which terminates at the valve of the cœcum.

See Intestane.

ILEIS. See Iliac passion.

YLEX. (The name of a genus of plants in the Linnean system. Class, Tetrandria; Order, Tetragynia.)

The holly.

ILEX ACUTOLUM. The systematic name of the common holly. Aquifolium. The leaves of this plant, common holly. Aquifolium. The leaves of this plant, so we are actions, of himmeans, have Hex-folia ovatis acutis spinosis, of Linneus, have been known to cure internituent fevers; and an infusion of the leaves, drank as tea, is said to be a preventive against the gout.

tree grows in Carolina; the leaves resemble those of tee grows in Carolina; the leaves resemble those of senna, blackish when dried, with a bitter taste, and senna, blackish when dried, with a bitter taste, and resonatic smell. They are considered as stomachic newing it as it grows dry, with a view of heating, dry-ILEX CASSINE. Cussina; Apalachine gallis. This

small intestines.

2. The small intestines.
1'LIAC. (Iliacus; from

2. The small intestines.

TLIAC. (Riacus; from ileum intestinum.) Belonging to the lilum; an intestine so called.

ILIAC ARTERIES. Arteria iliaca. The arteries so called are formed by the bifurcation of the acuta, near the last lumbar vertebra. They are divided into internal and external. The internal iliac, also called the hypograstic artery, is distributed in the factus miss six, and in the adult into five branches, which are divided than the adult into five branches, which are divided than the pathers are the little line the adult of the called the cal and in the adult into nie branches, which are divided, about the pelvis, viz. the little iliac, the gluteal, the ischiatre, the pudical, and the obturatory; and in the feetus, the umbilical. The external duae proceeds out of the pelvis through Poupart's ligament, to form the femoral artery

ILIAC PASSION. (Etheos, theos, ethetos, is described as a kind of nervous colic, the seat of which is the ilium.) a send of nervous cone, the seat of which is the limin.) Passio iliaca: Volvulus; Misserce mer; Convolculus; Chordapsus; Tormention. A violent vomiting, in which the faceal portion of the food is voided by the mouth. It is produced by many morbid conditions of the bowels, by inflammatory affections of the abdomi-nal viscora, and by hearin.

nal viscera, and by herniæ.

LIAG REGION. The side of the abdomen, between ILIAC REGION.

the ribs and the hips.

ILI'ACUS. The name of muscles, regions, or diseases, situated near to, or connected with, parts about the ilia or flanks.

ILIACUS INTERNUS. Iliacus of Winslow. Iliaco trachanten of Dumas. A thick, broad, and radiated muscle, which is situated in the pelvis, upon the inner surface of the ilium. It aises fleshy from the inner lip of the ilium, from most of the hollow part, and likewise from the edge of that bone, between its anterior superior spinous process and the acetabulum. It joins with the psoas magnus, where it begins to become tendinous, and passing under the ligamentum Falionii. 8 dinous, and passing under the ligamentum Fallopii, is inserted in common with that muscle. The tendon of this muscle has been seen distinct from that of pseas, and, in some subjects, it has been found divided into two portions. The iliacus internus serves to assist the pseas magnus in bending the thigh, and in bringing

it directly forwards.

ILI'ADUM. Hicdus. The first matter of all things, consisting of mercury, salt, and sulphur. These are Paracelsus's three principles. His iliadus is also a mineral spirit, which is contained in every element, and is the supposed cause of diseases.

Paracelsus gives this name to the occult ILIA'STER. virtue of nature, whence all things have their increase. II.I'NGOS. (From  $\iota \lambda \iota \gamma \xi$ , a vortex.) A giddiness, in which all things appear to turn round, and the eyes

grow dim.

ILI'SCUS. Avicenna says, it is madness caused by

love.

I'LIUM OS. (From ilia, the small intestines; so named because it supports the ilia.) The haunch-bone.

The superior portion of the os innominatum, which in Son Incommatum os.

The superior portion of the os inholimatum, which in the figure, is a distinct bone. See Innominatum os.
ILLA. See Ula.
ILLE'CEBRA. (From ειλεω, to turn; because its

ILLETCEBRA. (From elector, to turn; because its leaves resemble worms.) See Sedum acre.

ILLICIUM. (Illicium, ab illiciendo; denoting an enticing plant, from its being very fragrant and aromatic.) The name of a genus of plants in the Linawan system. Class, Polyandria: Order, Polyagnia. ILLICIUM ANISATUM. The systematic name of the yellow-flowered aniseed-tree: the seeds of which are

stinense; Semen badian. They are used with the same structure, scanner bands. The same tree is supposed to furnish the aromatic bark, called tree is supposed to the cortex lavola.

ILLO SIS. (From ιλλος, the eye.) A distortion of

the eves.

ILLUTAME'NTUM. An ancient form of an external medicine, like the Ceroma, with which the limbs of wrestlers, and others delighting in like exercises, were rubbed, especially after bathing; an account of which may be met with in Bactius De Thermis.

ILLUTA TIO. (From in, and lutum, mud.) Illutation. A besinearing any part of the body with mud, and re-

ing, and discussing. It was chiefly done with the mud !

found at the bottom of mineral springs.

1 LLYS. (From ιλλος, the eye.) A person who equints, or with distorted eyes.

I LVS. (From ιλυς, mud.) 1. The fæces of wine. An obsolete term.

The sediment in stools which resemble fæces of wine.

The sediments in urine, when it resembles the

IMBECI'LLITAS OCULORUM. Celsus speaks of the

IMBIRI'TIO. (From umbibo, to receive into.) An obsolete term. In chemistry for a kind of cohobation, when the liquor ascends and descends upon a solid substance, till it is fixed therewith.

IMBRICATUS. Imbricated: like tiles upon a house.

A term applied to leaves as those of the Euphorbia

IMMERSUS. Immersed: plunged under water— folia immersa: leaves which are naturally under the water, and are different from those which naturally float. See Leaf

It is remarked by Linnæus, that aquatic plants have their lower, and mountainous ones their upper, leaves most dividea, by which they better resist the action of the stream in one case, and of the wind in the other.

IMME RSUS. A term given by Bartholine, and some other anatomists to the Subscapularis muscle, because

it was hidden, or, as it were, sunk.

IMPA'TIENS. (From in, not, and patier, to suffer; because its leaves recede from the band with a crackbecause its leaves recede from the unit with a crack-ling moise, as impatient of the touch, or from the great elasticity of the sutures of its seed vessel which is com-pletely impatient of the touch, curling up with the greatest velocity, and scattering round the seeds, the instant any extraneous body comes in contact with it.) The name of a genus of plants. Class, Pentandria; Order, Monogynia. IMPERATO'RIA.

(From impero, to overcome: so named because its leaves extend and overwhelm the less herbs which grow near it.) I. The name of a genus of plants in the Linnæan system. Class, Pentandria;

Order, Monogynia.
2. The pharmacopeial name of the master-wort.
See Imperatoria ostruthium.
The systematic name IMPERATORIA OSTRUTHIUM. The systematic name of the master-wort. Imperatoria; Magistrantia. The roots of this plant are imported from the Alps and The roots of this plant are imported from the Alpa and Pyrenees, notwithstanding it is indigenous to this island: they have a fragrant smell, and a bitterish pungent taste. The plant, as its name imports, was formerly thought to be of singular efficacy; and its great success, it is said, caused it to be distinguished by the name of divinium remedium. At present, it is considered merely as an aromatic, and consequently is supersected by many of that class which possess superior qualities. qualities

quantes.

IMPET'GINES. (The plural of impetigo; from impeto, to infest.) An order in the class Cachexia of Cullen, the genera of which are characterized by cachexia deforming the external parts of the body with

cacherat detorming the external pairs of the body win tumouss, cruptions, &c.

IMPETI GO. Ignus, sylvaticus; Ignis volagrius.
A disease of the skin, variously described by authors, but mostly as one in which several red, hard, dry, pru-rient spots arise in the face and neck, and sometimes all over the body, and disappear by furfuraceous or tender scales.

SCALES.

IMPETUM PACIENS. See Vis vites.

IMPETUSA. Force or motion.

IMPIA HERBA. (From in, not, and pius, good; because it grows only on barren ground.) A name given to cultweed. See Gnaphaltum.

IMPLICATED. Celsus, Scribonius, and some others,

call those parts of physic so, which have a necessary dependence on one another; but the term has been more significantly applied, by Bellini, to fevers, where two at a time afflict a person, either of the same kind, as a double tertian; or, of different kinds, as an internment tertian, and a quotidian, called a Semi-

(From impluo, to shower upon.) 1.

The shower bath.

2. An embrocation.

IMPOSTHUMA. A term corrupted from impostem and apostem. An abscess.

IMPREGNA'TION. Impregnates See Conception

and Generation.

IN/ANI TIO. From inanio, to empty.) Inanition
Applied to the body or vessels, it means emptiness;
applied to the mind, it means a defect of its powers.
INCANTA TION. Incantatio; Incantamentum. A
way of curing diseases by charms, defended by Paraand Generation.

way of curing diseases by charms, detenated by receisus, Helmont, and some other chemical enthusiasts. INCANUS. Hoary. Applied to stems which are covered with a kind of sealy mealiness, as that of the A-temisia obsinthium, and Attriplez portulaccides. INCENDUM. (From incendo, to burn.) A burning

fever, or heat.
INCE'NSIO. 1. A burning fever.
2. A hot inflammatory tumour.

INCERNI'CULUM. (From incerno, to sift.)

1. A strainer, or sieve.

2. A name for the pelvis of the kidney, from its office as a strainer.

INCIDE'NTIA. (From incide, to cut.) Medicines which consist of pointed and sharp particles, as acids, and most salts, which are said to incide or cut the phlegm, when they break it, so as to occasion its dis-

INCINERA'TION. (From incinero, to reduce to ashes.) Incineratio. The combustion of vegetable and animal substances, for the purpose of obtaining their ashes or fixed residue.

INCISI'VUS. (From incido, to cut.) A name given

to some muscles, &c.

INCISIVUS INFERIOR. See Levator labii inferioris. INCISIVUS LATERALIS. See Levator labii superioris alæauc nasi.

INCISIVUS MEDIUS. See Depressor labii superioris

alwaue nasi.
INCI'SOR. (Dentes incisores; from incido, to cut, from their use in cutting the food.) The four front teeth of both jaws are called incisors, because they cut the food. See Techt.

INCISO'RIUM. (From incide, to cut.) A table whereon a patient is laid for an operation.

INCISORIUM FORAMEN. A name of the foramen, which lies behind the dentes incisores of the upper

INCISUS. (From incido, to cut.) Cut. A term applied in botany, synonymously with dissectus, to leaves; as those of the Geranium dissectum.

INCONTINE'NTIA. (From in, and contineo, to

contain.) Inability to retain the natural evacuations. Hence we say, incontinence of urine, &c.

INCRASSA'NTL. (Incrassans; from incrasso, to make thick.) Medicines which thicken the fluids. I'NCUBUS. (From incubo, to lie upon; because the patient fancies that something lies upon his chest.) See Oneirodynia.
INCURVUS. Curved inwards: applied to leaves;

INCURVUS. Curved inwards: applied to leaves; as in Erica empetrifolia.

INCUS. (A smith's anvil: from incudo, to smite upon: so named from its likeness in shape to an anvil)

The largest and strongest of the bones of the ear in the tympanum. It is divided into a body and two crura. tympanum. It is divided into a body and two crura. Its body is situated anteriorly, is rather broad and thick, and has two eminences and two depressions, both covered with cartilage, and intended for the reception of the head of the malleus. Its shorter crus extends no farther than the cells of the mastoid apophysis. Its longer crus, together with the maubrium of the malleus, to which it is connected by a ligament, is of the same extent as the shorter; but its extremity is curved inwards, to receive the os orbiculare, by the intervention of which it is united with the stapes

tervention of which it is united with the stapes.

INDEX. (From indico, to point out; because it is generally used for such purposes.) The foreinger.

Indian arrow-root. See Maranta.

Indian cress. See Tropaclum majus.

Indian date-plum. See Diospyros latus.

Indian date-plum. See Diospyros latus.

Indian leaf. See Laurus cassia.

Indian-pink. See Spigelia.

Indian-pinks. See Caautchoue,

Indian-valeat. See Caautchoue,

Indian-valeat. See Zea mays.

"INDIAN TOUCCO. Lokelia. The Lobelia inflata is an annual American plant, found in a great variety of soils throughout the United States.

It is slactescent. Eke many others of its genus. When

It is lactescent. like many others of its genus. When chewed it communicates to the mouth a burning, pungent sensation, which remains long in the fauces, resembling the effect of green tobacco. The plant con-

tains caoutchouc, extractive, and an acrid principle, which is present in the tincture, decoction, and distilled water.

The iohelia is a prompt emetic, attended with nar-cotic effects during its operation. It alway or capsule be held in the month for a sheet time, it bitness on gri-duness, headache, a trembang agriculton of the whole body, sickness, and finally vomiting. Truscelled same body, stekness, and maily vomiting. These effects one manlogous to those writers to be oppositive, it excites speedy vomiting, accompanied with distressing and long-continued sickness, and even with daugerous symptoms, if the dose be large. On account of the violence of its operation, it is probable that this plant will never come in use for the common purpose of an emeric. It is, however, entitled to notice as a remedy in agricultural productions. It ement. It is however, entitled to notice as a remedy in astrona and some other painman; affections. It produces refuel in asthmatic cases, sometimes without vomiting, but more frequently after discharging the contents of the stomach. On account of the large-fine discount of the produced of the operation, it is reloctantly resorted to by patients, who expect refuel from any middle means. If, however, certainly relieves some cases, in which other emerc substances (ai). In small doses the best other cinear substances ligh. In small dissess like behavior in a found a good expectorant for pure monia, in its advanced stages, and for catarrile. In the unation it has also been founded seaves.

The strength of the beliefu varies with its age, and other circumstances. In some instances, a grain will produce vomating. The tracture is most requently

produce vomaing. The thickine is most frequently given in satisfund, in doses of about a fluid drachm."—
Big. Mat. Med. A.]
[ISDIAN TREND!—Drawon root.—Arum.—"The
Arum traphyllion is an American plant, growing in
damp, shady situations, and sometimes called Indian
Theory, and Wake robin.—The root is large and disested, consisting chiefly of feecula, which it affords, without taste or smell, in the form of a white deheate powder. In its recent state, this root, and in fact every part of In its recent state, this root, and it lact every part of the plane, is violently actid, and almost caustic. Applied to the tougue, or to any secreting surface, it produces an effect like that of Cayenne peoper, but far more powerful, so as to leave a perman of sorteness for many hours. Its action does not readily extend through the cuticle, since the boursed root may be worn upon the skin till it becomes dry, without occasioning pain or rubefaction. The acrimony of this plant reby heat, and gradually disappears in drying. It is not communicated to water, all ohol, nor on, but may be chtained in the form of an inflammable gas or vapour, by hoining the plant under an inverted receiver, filled with water. Arum is teo violently acrid to be a sate medienne in its recent state, though it has sometimes been given with impunity. The dried root, while it retains a slight portion of acrimony, is sometimes grated in milk, and eyren as a carminative and diaphoretic."—Fogs. Mats. Med. A.]

INDICANT. In presentable. In INDICANT. (Indicans; from indico, to show.) That from which the indication is drawn, which is in reality the proximate cause of a disease.

INDICANT. (Indicans; from indico, to show.) An indication is that which demonstrates in a disease what ought to be done. It is three-fold; preservative, obtained in the form of an inflammable gas or vapour

what ought to be done. It is three-fold: preserves which preserves health; curative, which expels a present disease; and vital, which respects the powers and reasons of diet. The scope from which indications are taken, or determined, is comprehended in this dis-

-Ars, ætas, regio, complexio, virtus,

Ars, atas, regio, completio, virtue,
Mos et sumptoma, repletio, tempus, et usus.
INDICATOR. (From radice, to point: so named,
from is office of executing the index, or foreinger;
An extense: muscle of the foreinger, situated chieff,
on the lower and posterior part of the foreign chieff,
on the lower and posterior part of the forearm. Extenses: indices of Cowper. Extenses secundar intermode; indices, properus, engles calcators of Doudlas;
and Cah tesses plan weetern de Taulies of Doudlas;
and Cah tesses plan weetern de Taulies of Doudlas;
the posterior part of the day to. uning, from the modile of
the posterior part of the sides. the posterior part of the sina; its tendor passes under the same ligation with the extension distorain Commuhis, with part of which it is inserted into the posterior INDICEM LIGHTM. Logwood.

INDICUS MORDUS. The venereal disease.

INDI GENOUS. (Indicarnus; indigana ab indu, i.e. ar et geno, i. e. gugno, to beget.) Applied to discases, plants, and other objects which are peculiar to

any country.

INDIGO. A blue colouring matter extracted from

the Integration attractories. Anil, or the Indigo plant.
INDIGOFERA. (From indigo, and fire, to hear.)
The name of a genus of plants. Class, Diadelphia; Order, Decandria.

INDIGOFERA TINCTORIA. The systematic name of the plant which affords indigo.

INDUCIUM. (From induce, to cover or draw over.)
A covering. 1. A shirt.

2. The name of the amnios from its covering the

3. Wildenow and Swart's name for the involucrum, or thin membraneous covering of the fructification of

Its varieties are,

. Inductum planum, flat; as in the genus Poly-

2. I. peltatum, connected with the seed by a filament or stalk; as in Aspeliam filiams.

3. I. corniculatum, round and hollow; as in Equi-

(From induro, to harden.) Medi-INDURA'NTIA.

INEQUALIS. Unequal. Applied to a leaf when

the two halves are unequal in dimensions and the base

in English in Encalpptus resinifera.

INERMIS. (From in, priv. and arma.) Unarmed: opposed, in designating leaves, to such as are spinous. (From traw, to evacuate) Inethus. An evacuation of the humours.

INFECTION. See Contagion.
INFERNAL. A name given to a caustic, lapis infernalis, from its strong burning property. See Argenti

INFIBULA'TIO. (From infibulo, to button together.) An impediment to the retraction of the prepace

INFLAMMABLE. Chemists distinguish by this term such bodies as burn with facility, and flame in an increased temperature. Inflammable aer. See Hydrogen gas.

Inflammable gir, heavy. See Carburetted hydrogen

INFLAMMATION. (Inflammatio, onis. f.; from in-flammo, to burn.) Phlogosits; Phlogomasia. A dis-ease characterized by heat, pain, tredness, attended with more or less of tunctaction and fever. Inflammation is divided into two species, viz. phlegmonous and erysipelatous

Besides this division, inflammation is either acute or chronic, local or general, simple or complicated with

other diseases.

1. Polegumonous inflammation is known by its bright red colour, tension, heat, and a circumscribed, throbbing, paralul tumeraction of the part; leading to suppuration. Phlegmon is generally used to denote an inflammatory tumour, situated in the skin or cellular membrane. When the same disease affects the visualization. cera, it is usually called phlegmenous inflammation.

Erysipelatous inflammation is considered as an 2. Expspectations information is considered as an inflammation of a dull red colour, vanishing upon pressure, spreading unequally, with a burning pain, the tumour scarcely perceptible, ending in vesicles, or desquamation. This species of inflammation admits of a division into erytheme, when there is merely an affection of the skin, with very little of the whole system; and erysipelas, when there is general affection of the

The fever attending erysipelatous inflammation is generally synochus or typhus, excepting when it affects very vigorous habits, and then it may be synocha. The fever attending phicemonous inflammation is almost aiways synocua. Persons in the prime of life, and in full vigour with a plethone habit of body, are most liable to the attacks of a phlegmonous inflammation; whereas those anyanced in years, and those of a weak habit of body, irritable, and lean, are most apt to be attacked

Phlegmonous inframmation terminates in resolution, suppression, gaugiene, and scirdins, or induration. Pesolution is known to be about to take place when the symptoms game and what is suppuration, when the inflammation does not readily yield to proper remedies, the throbbing increases, the tumour points externally, I the distended and hellow perianths of the Cucubalus and rigors come on. Gangrene is about to take place when the pain abates, the pulse sinks, and cold per-spirations come on. Schurthus, or induration, is known by the inflammation continuing a longer time than usual; the tunnefaction continues, and a considerable hardness remains. This kind of tumour gives hade or no pain, and, when it takes place, it is usually the sequel of inflammation affecting glandular parts. It sometimes, however, is accompanied with fancinating pains, ulcerates, and becomes cancerous.

Erythematous inflammation terminates in resolution, suppuration, or gangrene. The symptoms of inflammation are accounted for in the following way:-

The redness arises from the dilatation of the small Vessels, which become sufficiently large to adout the red particles in large quantities; it appears also to occur, in some cases, from the generation of new vessels. The swelling is caused by the dinatation of the vessels, the plethoric state of the arteries and veins, the exudation of coagulable lymph into the cellular membrane, and the interruption of absorption.

In regard to the augmentation of heat, as the thermometer denotes very little increase of temperature, it appears to be accounted for from the increased sensiappears to be accounted to I from the interests some birty of the nerves, which convey false impressions to the sensorium. The part is occasioned by a de-viation from the natural state of the parts, and the unusual condition into which the nerves are thrown. The throbbing depends on the action of the arteries,

Blood taken from a person labouring under active inflammation, exhibits a yellowish white crust on the surface; this is denominated the buffy corraceous, or inflammatory coat. This consists of a layer of coagulable lymph, almost destitute of red particles. Blood, in this state, is often termed sizy. The colouring part of the blood is its heaviest constituent; and, as the blood of a person labouring under inflammation is longer coagulating than healthy blood, it is supposed that the red particles have an opportunity to descend to a considerable depth from the surface before they become entangled. The buffy coat of blood is generally the best criterion of inflammation; there are a few anomalous constitutions in which this state of blood is always found; but these are rare.

The occasional and exciting causes of inflammation are very numerous: they, however, may generally be classed under external violence, produced either by mechanical or chemical irritation, changes of temperamechanical of chemical tritation, changes of tempera-ture, and stimulating foods. Pever often scena to be a remote cause; the inflammation thus produced is generally considered as critical. Spontaneous inflam-mation sometimes occurs when no perceptible cause can be assigned for its production. Scrofula and syphilis may be considered as exciting causes of in-ternation.

flammation.

With regard to the proximate cause, it has been the subject of much dispute. Galen considered phlegmen to be produced by a superabundance of the humor to an obstruction in the small vessels, occasioned by a lenter of the blood. Cullen and others attributed it rather to an affection of the vessels than a change of the

The proximate cause, at the present period, is generally considered to be a morbid dilatation, and increased action of such arteries as lead and are distributed to

the inflamed part.

te initiative pair. In the bladder. See Cystitis. Inflammation of the braca. See Plamatis. Inflammation of the braca. See Plamatis. Inflammation of the properties. See Ophthelasca. Inflammation of the kinesis. See Enteritis. Inflammation of the kinesis. See Nephrotis. Inflammation of the longs. See Physics. Inflammation of the longs. See Physics. Inflammation of the longs.

Inflammation of the prodonaum. See Perdonitis.

Inflammation of the pleara. See Plearitis.
Inflammation of the stamach. See Gasterits.
Inflammation of the estimach. See Gasterits.
Inflammation of the testing. See Preparitis.
INFLATIO. (From inflo, to puff up.) A windy
velting. See Preparation

Swelling. See Preumatosis.

INFLATIVA. (Inflaticus; from inflo, to puff up with wind) Medicines or food which cause that alone.

INFLATUS. Inflated. In botany applied to vesi-culated parts, which naturally contain only an; as

belon, and the color allocation from from MPLEA S. Curves awards; synonymous to incures a sengilide to caves, parish, i.e., See Incureus. The pelans or one Legren et a, and Charaphablum, are

INTLORESCENCE. (Inflorescentia; from unfo-INILORI'SCENCE: (Influencentia) from outer-reson, to thewer or blessom.) A term used by Lan-narus to express the particult emanner in which flowers are situated upon a plant, denominated by preceding writers, moduse florentis, or manner of flowering. It is divided into scraph, when somary, and com-pound, when many flowers are placed together in one

The first affords the following distinctions.

1. Flos pedunculatus, furnished with a stalk; as in Gratiolus and Vin a.

F. sesseles, adhering to the plant without a flowerstate; as in Dapher mearing, and Zenia panciflora.

3. I. cantinus, when on the strain.

4. F. ramens, when on the branch.

5. F. terminalis, when on the apex of the stem, or branch; as Paris quadrifolia, and Chrysanthemum leu anthemum.

6. F. axillaris, in the axilla; as in Convalleria mul-

7. F. foliaris, on the surface of the leaf; as in Phyl-

8. F. radicalis, on the root; as Carlina acaulis,

9. F. latitans, concealed in a fleshy receptacle; as in Ficus carica.

Again, it is said to be,

1. Alternate; as in Polyanthes tuberosa.

 Opposite; as in Passiflora hirsuta.
 Unilateral, hanging all to one side; as Erica herbacea, and Silene amana

4. Soldary; as in Campanula speculum, and Carduus tuberosus

The second, or compound inflorescence, has the following kinds.

1. The verticillus, or whirl.
2. The capitulum, or tuft.

The spica, or spike.
The racemus, or cluster.

The corymbos, or corymb. The umbelta, or unbel.

The cyma, or cyme.
The fasciculae, or fascicle.
The panicula, or panicle.

12 The amentum, or catkin.
INFLUE'NZA. (The Italian word for influence.)
The disease is so named because it was supposed to be produced by a peculiar influence of the stars.

Cutes, what a uniquence.

INFRASCAPULA RIS (From infra, beneath, and scapata, the shoulder blade.) A muscle named from its position beneath the scapula. See Subscapularis.

is postroit General the sequent. See Succeeding the INFRASTINATUS. (From infra, beneath, and spring, the spine.) A muscle of the humerus, situated on the seapoid. It unives fleshy, from all that part of the dorsum scapulæ which is below its spine; and from the spine itself, as far as the cervix scapulæ. The fibres run obliquely towards a tendon in the middle of a muscle, which runs forwards, and adheres to the capsular ligane at. It is inserted by a flat, thick tendon, into the upper and outer part of the large protuberance on the head of the os humeri. Its use is to roll the os humeri outwards, to assist in raising and supporting it when raised, and to pull the ligament from between the bones. This muscle and the sap a spinatus are covered by an aponetrosis, which extends between the covere, and edges of the spine of the scapula, and gives rise to many of the muscular fabrus.

INFUNDIBULIFORMIS. Funnel shaped. Applied to the covolla of plants; as an Polamanazioa.

INFUNDIBULIFORMIS. From infundo, to pour in.)

INTEXPLE BUILD.

1. A casal that proceeds from the views of the brain to the paratury gland in the sellations.

2. The hogenature of the executory duct of the kidner, or cavities into which the arrive is first received,

from the secretary crypton are called infundicular.

[NIUSION. Interest from infundacional and second from the tegumen instatum, seen in Astragalus vesicarius, and any required degree of temperature on such substances

as have a loose texture, as thin bark, wood in shavings, 1 or small pieces, leaves, flowers, &c. and suffering it to stand a certain time. The liquor obtained by the above process is called an infusion. The following are among

process is caused an influsions. The following are among the most approved influsions.

INFU'SUM. See Influsions.

INFUSUM ANTHEMIDIS. Influsion of chamomile. Take of chamomile-flowers, two drachms; bölling-water, half a pint. Macerate for ten minutes in a covered vessel, and strain. For its virtues, see Anthemis nobilis

INFUSUM ARMORACIÆ COMPOSITUM. Compound infusion of horse-radish. Take of fresh horse-radish root, sliced, mustard-seeds, bruised, of each one ounce; boiling water, a pint. Macerate for two hours, in a covered vessel, and strain; then add compound spirit of horse-radish, a fluid ounce. See Cochlearia armo-

INPUSUM AURANTII COMPOSITUM. Compound in-fusion of orange-peel. Take of orange-peel, dried, two drachms; lemon-peel, fresh, a drachm; cloves, bruised, half a drachm; boiling water, half a pint. Macerate for a quarter of an hour, in a covered vessel, and strain. See Citrus aurantium.

INFUSUM CALUMBER. Infusion of calumba. Take of calumba-root, sliced, a drachm; boiling water, half a pint. Macerate for two hours, in a covered yessel, and

strain. See Calumba.

INFUSUM CARYOPHYLLORUM. Infusion of cloves. Take of cloves, bruised, a drachm; boiling water, half

a pint. Macerate for two hours, in a covered vessel, and strain. See Eugenia caryophyllata.

INFUSUM CASCARILLE. Influsion of cascarilla. Take of cascarilla bark, bruised, half an ounce; boiling water, half a pint. Macerate for two hours, in a covered vessel and bruised.

water, nail a pint. Macerate for two hours, in a covered vessel, and strain. See Croton cascarilla.

INFUSUM CATECHO COMPOSITUM. Compound infusion of catechu. Take of extract of catechu, two drachus and a half; cinnamon bark, bruised, half a drachm; boiling water, half a pint. Macerate for an hour, in a covered vessel, and strain. See Acaeia catechu.

INPUSUM CINCHONE. Infusion of cinchona. Take of lance-leaved cinchona bark, bruised, half an ounce; boiling water, half a pint. Macerate for two hours, in a covered vessel, and strain. See Cinchona.

INFUSUM CUSPARLE. Infusion of cusparia. Take cusparia bark, bruised, two drachms; boiling water, alf a pint. Macerate for two hours, in a covered veshalf a pint.

half a pint. Macerate for two hours, in a covered vessel, and strain. See Cusparia febrijuga.

Infusion of fox-glove. Take
of purple fox-glove leaves, dried, a drachm; boiling
water, half a pint. Macerate for four hours, in a covered vessel, and strain; then add spirit of cinnamon,
half a fluid ounce. See Digitalis purpurea.

INFUSUM GENTIANE COMPOSITUM. Compound infusion of gentian. Take of gentian-root, sliced, orangemeel, dried, of each, a drachm; Lemmanned fresh time

peel, dried, of each a drachm; lemon-peel, fresh, two drachms; boiling water, twelve fluid ounces. Macerate for an hour, in a covered vessel, and strain. Gentiana lutea.

INFUSUM LIMI. Infusion of linseed. Take of linseed, bruised, an onnee; liquorice-root, sliced, half an ounce; bolling water, two pints. Macerate for two hours, near the fire, in a covered vessel, and strain.

Bee Linum usitatissimum.
Invusum quassiz. Infusion of quassia. Take of quassia wood, a scruple; boiling water, half a pint.
Macerate for two hours and strain. See Quassia

amara.

INFUSUM RHEL. Infusion of rhubarb. Take of rhubarb-root, sliced, a drachm; boiling water, half a pint. Macerate for two hours, and strain. See Rheum.

INFUSUM ROSE. Take of the petals of red rose, dried, half an ounce; boiling water, two pints and a half; diduct suiphuric acid, three fluid drachms; double-refined sugar, an ounce and a half. Pour the water upon the petals of the rose in a glass vessel; then add the acid, and macerate for half an hour. Lastly, strain the infusion, and add the sugar to it. See Rosa Galtica.

Infusion of senna. Take of INFUSUM SENNÆ. Benna-leaves, an ounce and a half; ginger-root, sliced, a drachm; boiling water, a pint. Macerate for an hour, in a covered vessel, and strain the liquor. See

Cassia senna. INFUSUM SIMAROUSE. Infusion of simarouba. Take of simarouba bark bruised, half a drachm; boiling water, half a pint. Macerate for two hours, in a cos

water, nat a path, bacerate for two hours, in a co-vered vessel, and strain. See Quassia simurouba. Insussem Tablet. Influsion of tobacco. Take of tobacco-leaves, a drachin; boing water, a pint. Mace rate for an hour, in a covered vessel, and strain. See

Nicotiana

INGENHOUZ, John, was born at Breda, in 1730 Little is known of his carly life; but in 1767, he came Lattice is known or instany me, but he law, in candidate to England to learn the Suttonian method of innoculation. In the following year he went to Vienna, to inoculate some of the imperial family, for which service he received ampte honours; and shortly after performed the same operation on the Grand Duke of Tursenw, when he rejuved to this senature, and shortly after the control of the same of the Tuscany, when he returned to this country, and spent the remainder of his life in scientific pursuits. In 1779, he published "Experiments on Vegetables," discone phonsnea Experiments on Vegetanics, discovering their great power of purifying the air in sunshine, but injuring it in the shade and night. He was also author of several papers in the Philosophican Transactions, being an active member of the Royat Society. He died in 1799. INGLUVIES. 1. Gluttony

2. The claw, crop, or gorge of a bird. INGRASSIAN, JOHN PHILIP, was born in Sicily, and graduated at Padua in 1537 with singular reputation; whence he was invited to a professorship in several of the Italian schools; but he gave the preference to Naples, where he distinguished himself greatly by his learning and judgment. At length he returned to his native island, and settled in Patermo, where he was also highly esteemed; and in 1563 made first physician to that country by Philip II. of Spain, to whom it then belonged. This office enabled him to introduce excellent regulations into the medical practice of the island, and when the plague raged there in 1575, the judicious measures adopted by him arrested its progress; whence the magistrates decreed him a large gross; whence the magistrates decreed him a large reward, of which, however, he only accepted a part, and applied that to religious uses. He died in 1589, at the age of 70. He cultivated anatoncy with great assiduity, and is reckoned one of the improvers of that art, especially in regard to the structure of the cranium, and the organ of hearing. He is said also to have dis-covered the seminal vesicles. He published several works, particularly an account of the plague, and a treatise, "De Turnoribus preter Naturam," which is chiefy a commentary on Avigena, but is deserving chiefly a commentary on Avicenna, but is deserving of notice, as contaming the first modern description of Scarlatina, under the name of Rossalia; and perhaps the first account of varicella, which he called crystalli. But his principal work was published by his nephew, in 1603, entitled, "Commentaries on Galen's Book concerning the Bones.

INGRAVIDATION. (From ingravidor, to be great with child.) The same as impregnation, or going with child.
I'NGUEN. (Inguen, this. n.) The groin. The lower and lateral part of the abdomen, above the thigh.

INGUINAL. Inguinalis. Appertaining to the groin. See Hernia. Inguinal hernia.

Inguinal ligament. See Poupart's ligament. INHUMATION. (From unhumo, to put into the ground.) The burying a patient in warm or medicated earth. Some chemists have fancied thus to call that kind of digestion which is performed by burying the materials in dung, or in the earth.

I'MION. (From 15, a nerve; as being the place where erves originate.) The occiput. Blancard says it is nerves originate.) The occiput. Blancard says it is the beginning of the spinal marrow; others say it is

the back part of the neck.

INJACULA TIO. (From injaculor, to shoot into.) So Helmont calls a disorder which consists of a violent spasmodic pain in the stomach, and an immobility of

the body.

INJE CTION. (Injectio; from injicio, to cast into.) A medicated liquor to throw into a natural or preter-natural cavity of the body by means of a syringe. INNOMINA'TUS. (From in, priv., and nomen, a name.) Some parts of the body are so named: thus,

the pelvic bones, which in the young subject are three in number, to which names were given, become one in the adult, which was without a name; an artery from the arch of the aorta, and the fifth pair of nerves, because they appeared to have been forgotten by the

Office analogouss:

INNOMINATA ARTERIA. The first branch given off by the arch of the aorta. It soon divides into the right carotid and right subcla jan arteries.

INNOMINATI NERVI. The fifth pair of nerves. See | of the three portions of the os innominatum, is placed

INNOMINATUM OS. (So called because the three bones of which it originally was formed grew together, and formed one complete bone, which was then left nameless.) A large irregular-bone, situated at the side of the pelvis. It is divided into three portions, viz. the iliac, ischiatic, and pubic, which are usually described as three distinct bones.

The os thum, or haunch-bone, is of a very irregular shape. The lower part of it is thick and narrow; its superior portion is broad and thin, terminating in a ridge, called the spine of the litum, and more commonly known by the name of the humen. The spine rises up like an arch, being turned somewhat outward, and from this appearance, the upper part of the pelvis, when viewed together, has not been improperly compared to the wings of a phæton. This spine, in the recent subject, appears as if tipped with cartilage; but this appearance is nothing more than the tendinous fibres of the muscles that are inserted into it. Externally, this bone is unequally prominent, and hollowed for the attachment of muscles; and internally, at its broadest forepart, it is smooth and concave. At its lower part, there is a considerable ridge on its inner fower part, there is a considerable ridge on its inner surface. This ridge, which extends from the oss sacrum, and corresponds with a similar prominence, both on that bone and the ischium, forms, with the inner part of the ossa pubis, what is called the brim of the petvis. The whole of the internal surface, behind this ridge, is very unequal. The os ilium has hkewise a smaller very unequal. The 6s limit has likewed a lower surface posteriorly, by which it is articulated to the sides of the os sacrum. This surface has, by some, been compared to the human ear, and, by others, to the head of a bird: but neither of these comparisons seem to convey any just idea of its form or appearance.

Its upper part is rough and porous; lower down it is more solid. It is firmly united to the os sacrum by a cartilaginous substance, and likewise by very strong ligamentous fibres, which are extended to that bone from the whole circumference of this irregular surface. The spine of this bone, which is originally an epiphysis. has two considerable tuberosities, one anteriorly, and the other posteriorly, which is the largest of the two The ends of this spine too, from their projecting more The ends of this spine too, from their projecting more than the parts of the bone below them, are called spinal processes. Before the anterior spinal process, the spine is hollowed, where part of the Sartorius muscle is placed; and below the posterior spinal process, there is a very large niche in the bone, which, in the recent subject, has a strong ligament stretched over its lower part, from the os sacrum to the sharp-pointed process of the ischium; so that a great hole is formed, through which pass the great ciacic nerve and the posterior crural vessels under the pyritorm muscle, part of which is likewise lodged in this hole. The lowest, thickest, and narrowest part of the illum, in conjunction with the other two portions of each os innominatum, helps to form the acetabulum for the os femoris

The os ischum, or hip-bone, which is the lowest of the three portions of each os innominatum, is of a very irregular figure, and usually divided into its body, tuberosity, and ramus. The body externally forms the inferior portion of the acetabulum, and sends a sharp-pointed process backward, called the spine of the This is the process to which the ligament is attached, which was just now described as forming a great foramen for the passage of the sciatic nerve. The tuberosity is large and irregular, and is placed at The inferior part of the bone, giving origin to several nuscles. In the recent subject, it seems covered with a cartilaginous crust; but this appearance, as in the spine of the flum, is nothing more than the tendinous fibres of the muscles that are inserted into it. This tuberosity, which is the lowest portion of the trunk, tuberosity is observed a sinuosity, covered with a car-tilaginous crust, which serves as a pulley, on which the obturator muscle plays. From the tuberosity, the bone, becoming narrower and thinner, forms the ramus, or branch, which, passing forwards and upwards, makes, with the ramus of the os pubis, a large hole of an oval shape, the foramen magnum ischa, which affords, through its whole circumference, attachment to muscles. This foramen is more particularly noticed In describing the os pubis

The os pubis, or share-bone, which is the smallest | in men.

at the upper and forepart of the pelvis, where the two
ossa publis meet, and are united to each other by means
of a very strong cartilage, which constitutes what is of a very strong cartilage, which constitutes what is called the symphyses pulses. Each os pubs may be divided into its body, angle, and ramus. The body, which is the outer part, is joined to the ositium. The angle comes forward to form the symphisis, and the ramus is a thin apophysis, which, unturn with the ramus of the ischium, forms the foramen magnum. ischu, or thyroideum, as it has been sometimes called, isome, of the meaning is in a some state. This foramen is somewhat wider above than below, and its greatest danneter is, from above downwards, and obliquely from within outwards. In the recent subject, it is almost completely closed by a strong fibrous membrane, called the obturator ligament. Upwards and outwards, where we observe a nicne in the bone, the fibres where we observe a finite in the bone, the fibres of this ligament are separated, to allow a passage to the posterior crural nerve, an artery and vein. The great uses of this foramen seem to be to lighten the bones of the pelvis, and to afford a convenient todgment to the obtunator muscles. The three-bones now described as constituting the os innominatum on each side, all concur to form the great acctabulum, or cotyloid cavity, which receives the head of the thigh-bone; the os illum and os ischium making each about two-fifths, and the os pubis one-fifth, of the cavity. This acetabulum, which is of considerable depth, is of a spherical shape. Its brims are high, and, in the recent subject, it is tipped with cardiage. These brims, however, are higher above and externally, than they are internally and below, where we observe a niche in the bone (namely, the ischium), across which is stretched a ligament, forming a hole for the transmission of blood-vessels and nerves to the cavity of the joint. The cartiage which lines the acetabulum, is thickest at its circumference, and thinner within, where a fittle hole is to be observed, in which is placed the apparatus that serves to have call the cavity of th observed, in which is placed the apparatus that serves to Intricate the joint, and facilitate its motions. We are likewise able to discover the impression made by the internal ligament of the os femoris, which, by being attached both to this cavity and to the head of the os femoris, helps to secure the latter in the acetabulum. The bones of the petvis serve to support the spine and upper parts of the body, to lodge the intestines, urinary bladder, and other viscera; and likewise to unite the trunk to the lower extremities. But, besides these uses they are destined in the female besides these uses, they are destined, in the female subject, for other important purposes; and the acconcheur finds, in the study of these bones, the foundation of all midwitery knowledge. Several eminent writers are of opinion, that in difficult parturition, all writers are of opinion, that in discour particles, at the bones of the pelvis undergo a certain degree of separation. It has been observed, likewise, that the cardiage uniting the ossa publis is thicker, and of a more spongy texture, in women than in men; and therefore more likely to swell and charge during pregnancy. That many instances of a partial separation of these bones, during labour, have happened, there can be no doubt; such a separation, however, ought by no means to be considered as a uniform and salutary work of nature, as some writers seem to think, but as the effect of disease. But there is another circumstance in regard to this part of osteology, which is well worthy of attention; and this is, the different capacities of the pelvis in the male and female subject. It has been women than the os sacrum is shorter and broader in women than in men; the ossa ilia are also found more expanded; whence it happens, that in women the centre of gravity does not fall so directly on the upper part of the thigh as in men, and this seems to be the reason why, in general, they step with less firmness, and move their hips forward in walking. From these circumstances, also, the brinn of the female pelvis is nearly of an oval shape, being considerably wider from side to side, than from the symultysis publis to the os sacrums. observed that the os sacrum is shorter and broader in side, than from the symphysis pubis to the os sacrum; whereas, in men, it is rounder, and everywhere of less diameter. The inferior opening of the pelvis is likewise proportionably larger in the female subject, the wise proportionally larger in the tender support of the ossa ischia being more separated from each other, and the foramen ischii larger, so that, where the os ischium and os pubis are united together, they form a greater circle; the os sacrum is also more hollowed, though shorter, and the os coccyzis more loosely connected, and, therefore, capable of a greater degree of motion than

INN

INOCULATION. Inoculatio. The insertion of a poison into any part of the body. It was mostly magtised with that of the small-pox, because we had tearned, from experience, that by so doing, we generally pro-cured fewer pustules, and a much milder disease, than when the small-pox was taken in a natural way. which the advantages were evident, yet objections were raised against inoculation, on the notion that it exposed the person to some risky when re might have passed through life, without ever taking the disease naturally; but it is obvious that he was exposed to much greater danger, from the intercourse which he must have with his fellow-creatures, by taking the disorder in a natural way. It has also been adduced, that a person is hable to take the small-pox a second time, when produced at first by artificial means; but such instances are very rare, besides not being sufficiently authentic. We may conjecture that, in most of those cases, the matter used was not variolous, but that of some other eruptive disorder, such as the chicken-pox, which has often been mistaken for the small pox. However, since the discovery of the preventive power of the cow-pox, small pox inoculation has been rapidly failing into disuse. See Variola vaccing.

To illustrate the benefits arising from inoculation, it has been calculated that a third of the adults die who take the disease in a natural way, and about one-seventh of the children; whereas of those who are inoculated, and are properly treated afterward, the proportion is probably not greater than one in five or

Inoculation is generally thought to have been intro-Modulation is generally mought where seed and duced into Britain from Turkey, by Lady Mary Wortley Montague, about the year 1721, whose son had been inoculated at Constantinople, during her residence there, and whose infant daughter was the first that underwent the operation in this country. It appears, however, to have been well known before this period, both in the south of Wales and Highlands of Scotland. Mungo Park, in his travels into the interior of Africa, found that inoculation had been long practised by the Negroes on the Guinea coast; and nearly in the same manner, and at the same time of life, as in Europe. It is not clearly ascertained where inoculation really originated. It has been ascribed to the Circassians, who employed it as the means of preserv ing the beauty of their women. It appears more probable that accident first suggested the expedient among different nations, to whom the small-pox had long been known, independently of any intercourse with each other; and what adds to the probability of this conjecture is, that in most places where inoculation can be traced back, for a considerable length of time, it seems to have been practised chiefly by old women, before it was adopted by regular practitioners

Many physicians held inoculation in the greatest contempt at first, from its supposed origin; others again discredited the fact of its utility; while others, on the testimony of the success in distant countries, believed in the advantages it afforded, but still did not think they attended; and it was not until the experiment of it had been made on six criminals (all of whom recovered from the disease and regained their liberty). that it was practised, in the year 1726, on the royal family, and afterward adopted as a general thing.

To ensure success from inoculation, the following

precautions should strictly he attended to.

1. That the person should be of a good habit of body, and free from any disease, apparent or latent, in order that he may not have the disease and a had con-stitution, or perhaps another disorder, to struggle with at the same time.

2. To enjoin a temperate diet and proper regimen; and, where the body is plethoric, or gross of gentle purges, together with mercurial and an inco-

That the age of the person be as little advanced as possible, but not younger if it can be avoided, than

four months.

4. To choose a cool season of the year, and to avoid external heat, either by exposure to the sun, sitting by fires, or in warm chambers, or by going too waimly clothed, or being too much in bed.

To take the matter from a young subject, who has the small-pox in a tayourable way, and who is otherwise healthy, and free from disease; and, when 456

The insertion of a I fresh matter can be procured, to give it the prefer-

Where matter of a benign kind cannot be procured. and the patient is evidently in danger of the casual small (ex, we should not, however, hestate a moment to inoculate from any kind of matter that can be procured; as what has been taken in mahguant kinds of small pox has been found to produce a very mild disease. The mildness or malignity of the disease appears, therefore, to depend hitle or not at all on the mocrosa mag matter. Variolous matter, as well as the moceta has matter. vaccine, by being kept for a length of time, particularly in a warm place, is apt, however, to undergo decomposition, by putrefaction; and then another kind of con-tagious material has been produced.

In inoculating, the operator is to make the slightest puncture or scratch in ago, ble in the arm of the person, rubbing that part of the lancet which is besineared with matter repeatedly over it, by way of ensuring the absorption; and in order to prevent its being wiped off, the shirt sleeve ought not to be pulled down until the

part is dry.

A singular circumstance attending inoculation is, that when this fails in producing the disease, the inoculated part nevertheless sometimes inflames and supporates, as in cases where the complaint is about supportates, as in class where the complaint is about to follow; and the matter produced in those cases, is as it for inoculation as that taken from a person actually labouring under the disease. The same happens very frequently in inoculation for the cow-

If, on the fourth or fifth day after the operation, redness or inflammation is apparent on the edge of the wound, we ought then to inoculate in the other arm, in the same manner as before; or, for greater certain-

ty, we may do it in both.

Some constitutions are incapable of having the disease in any form. Others do not receive the disease at one time, however freely exposed to its contagion, even though repeatedly inoculated, and yet receive it afterward by merely approaching those labouring

On the coming on of the febrile symptoms, which is On the coming on of the termit symptoms, which is generally on the seventh day in the modulated small-pox, the patient is not to be suffered to lie abed, but smould be kept cool, and partake freely of antiseptic cooling drinks. See Variola.

INOSCULATION. (Inosculatio; from in, and osculam, a little menth.) The tunning of the veins

and arteries into one another, or the interunion of the

and areries mo one anome, or the metamoro or the extrements of the arteries and veins.

FNSA MA. (From in, not, and samus, sound.)
Insanity, or deranged intellect. A genus of disease in the class Neurosses, and order Vessurus, characterized by erroneous judgment, from imaginary perceptions or recollections, attended with agreeable emotions in per-

sons of a sanguine temperament. See Mania.

INSE'SSUS. (From insideo, to sit upon.) A hotbath, simple or medicated, over which the patient

INSIPIE'NTIA. (From in, and sapientia, wisdom.)

fiscilatio. (From in, upon, and sol, the sun.) A disease which arises from a too great influence of the

sem's heat upon the head, a coup de soleil.

INSPIRA'TION. (Inspiratio; from in, and spiro, to breathe.) The act of drawing the air into the lungs.

INSTINCT.

INSTINCT. (Instinctus, 4s. m.) Animals are not abandoned by nature to themselves: they are all employed in a series of actions; whence results that marvellous whole that is seen among organized beings. To incline animals to the punctual execution of those ac ions which are necessary for them, nature has provided them with instinct; that is, propensities, inclinations, wants, by which they are constantly excited, and forced to fulfil the intentions of nature.

Instinct may excite in two different medes, with or without knowledge of the end. The first is enlight-ened instinct, the second is blind instinct; the one is particularly the girt of man, the other belongs to

animals.

In examining carefully the numerous phenomena which depend on instinct, we see that there is a double design in every animal:—1: The preservation of the man, dual. 2. The preservation of the species. Every animal fulfits this end in its own way, and according to

its organization; there are therefore as many dif-ferent instincts as there are different species; and as the organization varies in individuals, instinct pre-sents individual differences sometimes strongly marked. INTERCOSTAL. (Intercostatis; from inter, be-tween, and costa, a ris.) A name given to muscles,

We recognise two sorts of instinct in man: the one depends more evidently on his organization, on his animal state; he presents it in whatever state he is found. This sort of instinct is nearly the same as that of animals. The other kind of instinct springs from the social state; and, without doubt, depends on orga-nization: what vital phenomenon does not depend on it? But it does not display itself except when man lives in civilized society, and when he enjoys all the

advantages of that state.

advantages of that state.

To the first, that may be called animal instinct, belong hunger, thirst, the necessity of clothing, of a covering from the weather; the desire of agreeable Sensations; the fear of pain and of death; the desire to injure others, if there is any danger to be feared from them, or any advantage to arise from hurting them; the venereal inclinations; the interest inspired by chadren; inclination to imitation; to live in society, which leads man to pass through the different degrees of civilization, &c. These different instinctive feelof civilization, &c. These different instinctive feel-ings methre him to concur in the established order of organized beings. Man is, of all the animals, the one whose natural wants are most numerous, and of the greatest variety; which is in proportion to the extent of his intelligence: if he had only these wants, he would have always a marked superiority over the

When man, living in society, can easily provide for all the wants which we have mentioned, he has then time and powers of action more than his original wants require: then new wants arise, that may be called social wants: such is that of a lively perception of existence; a want which, the more it is satisfied, the more difficult it becomes, because the sensations

the more difficult it becomes; because the more difficult it becomes blumted by habit.

This want of a vivid existence, added to the continually increasing feebleness of the sensations, causes a mechanical restlessness, vague desires, excited by the remembrance of vivid sensations formerly felt: in order to escape from this state, man is continually forced to change his object, or to overstrain sensations of the same kind. Thence arises an inconstancy of the same kind. cion of desires, which, always annihilated by enjoyment, and irritated by remembrance, proceed forward without end; thence arises ennui, by which the civilized idler is incessantly tormented.

The want of vivid sensations is balanced by the

love of repose and idleness in the opulent classes of society. These contradictory feelings modify each society. other, and from their reciprocal reaction results the love of power, of consideration, of fortune, &c. which gives us the means of satisfying both.

These two instinctive sensations are not the only ones which spring from the social state; a crowd of others arise from it, equally real, though less important; besides, the natural wants become so changed as no longer to be known; hunger is often replaced by a tapricious taste; the venereal desires by a feeling of

quite another nature, &c.

The natural wants have a considerable influence upon those which arise from society: these, in their turn, modify the former; and if we add age, tempera-ment, sex, &c. which tend to change every sort of want, we will have an idea of the difficulty which the study of the instinct of man presents. This part of physiology is also scarcely begun. We remark, however, that the social wants necessarily carry along with them the enlargement of the understanding; there is no comparison in regard to the capacity of the mind, between a man in the higher class of society, and a man whose physical powers are scarcely sufficient to pro-vide for his natural wants.

INTEGER. When applied to leaves, perianths,

INTEGER. When applied to leaves, perianths, petals, &c. folia integra, means undivided; and is said of the simple leaves as those of the orchises and grasses. The female flower of the oak atfords an example of the perianthum integrum, and the petals of the Nigrith arrensis and Silene quinquendnera are described as petals integrat.

INTEGERRIMUS. Most perfect or entire. Applied to leaves, the margin of which has no teeth, notches, or incisions. It regards solely the margin

tween, and costa, a rib.) A name given to muscles, vessels, &c. which are between the ribs.

INTERCOSTAL ARTERIES. Arteriæ intercostales.

The arteries which run between the ribs. The superior intercostal artery is a branch of the subclavian. The

intercostal artery is a branch of the subclavian. The other intercostal arteries are given off from the aorta. Intercostal arteries are given off from the aorta. Intercostal Mescles. Intercostales externi et interni. Between the ribs on each side are eleven double rows of muscles. These are the intercostales externi, and interni. Galen has very properly observed, that they decussate each other like the strokes of the letter K. The intercostales externi arise from the lower edge of each superior rib, and, running obliquely downwards and forwards, are inserted into the upper edge of each inferior rib, so as to occupy the intervals of the ribs, from as far back as the spine to their cartilages; but from their cartilages to the sternum, there is only a thin aponeurosis covering the internal intercostales. The intercostales interni arise and are inserted in the same manner as the external. They beam serted in the same manner as the external. They begin serted in the same manner as the external. They begin at the sternum, and extend as far as the angles of the ribs, their fibres running obliquely backwards. These fibres are spread over a considerable part of the inner surface of the ribs, so as to be longer than those of the external intercostais. Some of the posterior portions of the internal intercostais pass over one rib, and are inserted into the rib below. Verheyen first described these portions as separate muscles, under the name of infra costales. Winslow has adopted the same name. Cowner, and after him Douglas, call them costatums infra costales. Winslow has adopted the same name. Cowper, and after him Douglas, call them castarum depressores proprii. These distinctions, however, are altogether superfluous, as they are evidently nothing more than appendages of the intercostals. The number of these portions varies in different subjects. Most commonly there are only four, the first of which runs from the second rib to the fourth, the second from the third rib to the fifth, the third from the fourth rib to the seventh. The internal intersects of the two inferior cales risk The internal intercostals of the two inferior false ribs are frequently so thin, as to be with difficulty separated from the external; and, in some subjects, one or both of them seem to be altogether wanting. It was the of them seem to be altogether wanting. It was the opinion of the ancients, that the external intercostals serve to elevate, and the internal to depress the rbs. They were probably led to this opinion, by observing the different direction of their fibres; but it is now well known, that both have the same use, which is that of raising the ribs equally during inspiration. Fallopius was one of the first who ventured to call in question the opinion of Calen an this subject, by control tion the opinion of Galen on this subject, by contending that both layers of the intercostals serve to elevate In this opinion he was followed by Hierony mus Fabricius, our countryman Mayow, and Borelli. But, towards the close of the last century, Bayle, a writer of some eminence, and professor at Toulouse, revived the opinion of the ancients by the following arguments:—He observed, that the oblique direction of the fibres of the internal intercostals is such, that in each inferior rib, these fibres are nearer to the vertein each inferior rib, these fibres are nearer to the vertebre than they are at their superior extremities, or in the rib immediately above; and that, of course, they must serve to draw the rib downwards, as towards the most fixed point. This plausible doctrine was adopted by several eminent writers, and among others, by Nicholis, Hoadley, and Schreiber; but above all, by Hamberger, who went so far as to assert, that not only the ribs, but even the sternum, are pulled down wards by these muscles, and constructed a particular instrument to illustrate this doctrine. He preceded likewise that the intervals of the ribs are increased by their depression; but he allowed that, while those parts of the internal intercostals that are placed between the bony part of the ribs pull them downwards, the auterior portions of Intercostals that are placed between the bony part of the ribs pull timen downwards, the anterior portions of the muscle, which are situated between the cartilages, concur with the external intercostals in raising them upwards. These opinions gave rise to a warm and interesting controversy, in which Hamberger and Haller were the principal disputants. The former argued chiefly from theory, and the latter from experiments on living animals, which demonstrate the fallacy of Hamberger's arguments, and prove hereafold, a doubt hamberger's arguments, and prove, beyond a doubt, that the internal intercostals perform the same functions as the external.

INTERCOSTAL NERVE. Nervus intercostalis. Great | dicis, and Winslow semi-interosseus indicis. Albinue, intercostal nerve. Sympathetic nerve. The great in-tercostal nerve arises in the cavity of the cranium. from a branch of the sixth and one of the fifth pair. uniting into one trunk, which passes out of the cranium through the carotid canal, and descends by the sides of the bodies of the vertebræ of the neck, thorax, loins, of the bodies of the vertebras of the acek, thorax, loins, and os sacruas: in its course, ir receives the small accessory branches from all the thirty pair of spinal nerves. In the neck, it gives off three cervical ganglions, the upper, middle, and lower; from which the cardiac and pulmonary nerves arise. In the thorax, it gives off the splanchine or anterior intercestal, which perforates the diaphragm, and forms the semilunar ganglions, from which nerves pass to all the abdominal viscera. They also form in the abdomen ten peculiar plexuses, distinguished by the name of the viscus, to which they belong, as the coilac, splenic, hepatic, superior, middle, and lower mesenteric, two renal, and two spermatic plexuses. The posterior intercostal nerve gives accessory branches about the pelvis and

ischiatic nerve, and at length terminates.

INTERCOSTAL VEINS. The intercostal veins empty

their blood into the vena azygos.

INTERCURRENT. Those fevers which happen in certain seasons only, are called stationary: others

are called, by Sydenham, intercurrents.

INTE'RCUS. (From inter, between, and cutis, the skin.) A dropsy between the skin and the flesh. See

INTERDE'NTIUM. (From inter, between, and The intervals between teeth of the dens, a tooth.)

INTERDIGITUM. (From inter, between, and A corn between the toes, or digitus, a toe, or finger.)

wart between the tingers INTERFÆMI'NEUM. (From inter, between, and famen, the thigh.) The The perinæum, or space between

INTERLU'NIUS. (From inter, between, and luna, the moon; because it was supposed to affect those who were born in the wane of the moon.) The epi-

See Affinity intermediate. Intermediate affinity.
INTERMITTENT. INTERMITTENT. (Intermittens; from inter, between, and mitto, to send away.) A disease is so called which does not continue until it finishes one way or the other, as most diseases do, but ceases and returns again at regular or uncertain periods; as agues, &c.

Intermittent fever. See Febris intermittens. INTERNODIS. Applied to a flowerstalk or pedunculus, when it proceeds from the intermediate part of a branch between two leaves; as in Ehretia inter-

INTERNU'NTII DIES. (From internuncio, to go between.) Applied to critical days, or such as stand between the increase of a disorder and its decrease. INTERO'SSEI MANUS. (Interosseus; from inter, he-

tween, and os, the bone.) These are small muscles situated between the metacarpal bones, and extending from the bones of the carpus to the fingers. They are divided into internal and external; the former are to be seen only on the paim of the hand, but the latter are conspicuous both on the palm and back of the hand. The interessei interni are three in number. The first, which Albinus names posterior indicis, arises tendinous and fleshy from the basis and inner part of the metacarpal bone of the forefinger, and likewise from the upper part of that which supports the middle finger. Its tendon passes over the articulation of this part of these bones with the forefinger, and, uniting with the fendinous expansion that is sent from the extensor digitorum communis, is inserted into the posterior convex surface of the first phalanx of that inger. The second and third, to which Albinus gives the names of prior annularis, and interrossens auricularis, arise, in the same manner, from the basis of the outsides of the metacarpal bones that sustain the ring-finger and the little finger, and are inserted into the outside of the tendinous expansion of the extensor digitorum communis that covers each of those These three muscles draw the fingers into which they are inserted, towards the thumb. interossei externi are four in number; for among these is included the small muscle that is situated on the the metacarpal bone that supports the fore-Douglas calls it extensor tertii internodii in-

who describes it among the interrossei, gives it the name of prior indicis. arises by two tendinous and fleshy portions. One of these springs from the upper half of the inner side of the first bone of the thumb, and the other from the ligaments that unite the os trapezoides to the metacarpal bone of the forefinger, and likewise from all the outside of this latter bone. These two portions unite outside of this latter bone. These two portions unite as they descend, and terminate in a tendon, which is inserted into the outside of that part of the tendinous expansion from the extensor digitorum communis that is spread over the posterior convex surface of the fore-The second, to which Albinus gives the name of prior medii, is not quite so thick as the last described muscle. It arises by two heads, one of which springs from the inner side of the metacarpal bone of the forefinger, chiefly towards its convex surface, and the other arises from the adjacent ligaments, and from the whole outer side of the metacarpal bone that sustains the middle finger. These two portions unite as they descend, and terminate in a tendon, which is inserted, in the same manner, as the preceding muscle, into the outside of the tendinous expansion that covers the pos-terior part of the middle finger. The third belongs outside of the indiddle finger. The third belongs likewise to the middle finger, and is therefore named posterior medii by Albinus. It arises, tike the last described muscle, by two origins, which spring from the roots of the metacarpal bones of the ring and middle fingers, and from the adjacent ligaments, and is inserted into the inside of the same tendinous expansion as the preceding muscle. The fourth, to which Albinus gives the name of posterior annularis, differs from the last two only in its situation, which is between the metacarpal bones of the ring and little fingers. It is inserted into the inside of the tendinous expansion of the extensor digitorum communis, that covers the posterior part of the ring-finger. All these four muscles serve to extend the fingers into which they are inserted, and likewise to draw them inwards, towards the thumb, except the third, or posterii medii, which, from its situation and insertion, is calculated to pull the

its situation and insertion, is calculated to pull the middle finger outwards.

INTEROSEI PEDIS. These small muscles, in their situation between the metatarsal bones, resemble the interosse of the hand, and, like them, are divided into internal and external. The interossei pedis interni are three in number. They arise tendinous and fleshy, from the basis and inside of the metatarsal bones of the middle, the third, and little toes, in the same manner as those of the hand, and they each terminate in a tendon that runs to the inside of the first joint of these toes, and from thence to their upper surface, where it loses itself in the tendinous expansion that is sent off from the extensors. Each of these three muscles serves to draw the toe into which it is inserted towards the great toe. The interessei externi are four in num-The first arises tendinous and fleshy from the outside of the root of the metatarsal bone of the great toe, from the os cunciforme internum, and from the root of the inside of the metatarsal bone of the foretoe Its tendon is inserted into the inside of the tendinous Its tendon is inserted into the inside of the tendinous expansion that covers the back part of the toes. The second is placed in a similar manner between the metatarsal bones of the fore and middle toes, and is inserted into the outside of the tendinous expansion on the back part of the foretoe. The third and fourth are placed between the two next metatarsal bones, and are inserted into the outside of the middle and third toes. The first of these muscles draws the foretoe inwards towards the great toe. The three others pull the toes, into which they are inserted, outwards. They

all assist in extending the toes.

INTEROSSEOUS. (Introsseus; from inter, between, and os, a hone.) A name given to muscles, ligaments, &c. which are between hones.

INTERPELLA'TUS. (From interpello, to interrupt.) A name given by Paracelsus to a disease attended with irregular or uncertain paroxysms.

INTERPOLATUS DIES. (From interpolo, to renew.) In Paracelsus, these are the days interpolated between two paroxysms.
INTERSCAPU'LIUM.

INTERSCAPU'LIUM. (From inter, between, and ecapula, the shoulder-blade.) That part of the spine which his shetween the shoulders.

INTERSEPTUM. (From inter, between, and septum, an enclosure.) The uvula and the septum narium. INTERSTINA'LIS. (From inter, between, and

INTERESTINALIS. (From inter, between, and epima, the spine.) Muscles, nerves, &c. are so named which are between the processes of the spine.

INTERSPINALES. The fleshy portions between the spinous processes of the neck, back, and loins, distinguished by the names of interspinales colli, dorsi et handorium. Those which connect processes of the back and loins, are rather small tendous than muscles:

they draw these processes mearer to each other.

INTERTRANSVERSATLES. Four distinct small bundles of flesh, which fill up the spaces between the transverse processes of the vertebre, of the loins, and

Serve to draw them towards each other.

INTERTRIGO. (From inter, between, and tero, to rub.) An excertation about the anus, groins, axilla, or other parts of the body, attended with inflammation and moisture. It is most commonly produced by the irritation of the urine, from riding, or some acrimony

INTESTINE. (Intestinum; from intus, within.) The convoluted membraneous tube that extends from the stomach to the anus, receives the ingested food, rethe stomach to the anus, receives the injected toda, let-tains it a certain time, mixes with it the bile and pan-create jurce, propels the chyle into the lacteals, and covers the faces with mucus, is so called. The intes-tines are situated in the cavity of the abdomen, and are divided into the small and large, which have, be-sides their size, other circumstances of distinction.

The small intestines are supplied internally folds, called valvula consiscentes, and have no bands on their external surface. The large intestines have no tolds internally; are supplied externally with three strong muscular bands, which run parallel upon the surface, and give the intestines a saccated appearance; they have also small fatty appendages, called appendi-

cular opiplorca

The first portion of the intestinal tube, for about the extent of twelve fingers' breadth, is called the duodenum; it lies in the epigastric region; makes three turnings, and between the first and second flexure receives by a common opening, the panercaire duct, and the ductus communis chotelochus. It is in this por-tion of the intestines that obvidication is chiefly per-formed. The remaining perton of the small intestines is distinguished by an imaginary division into the jejunum and ileum.

The jepanum, which commences where the duode-num ends, is situated in the umbilical region, and is mostly found empty; hence its name: it is everywhere covered with red vessels, and, about an hour and a half after a meal, with destended lacteris.

The *item* occupies the hypogastric region and the pelvis, is of a more pathd colour than the former, and terminates by a transverse opening into the large intestines, which is called the *valve* of the ileum, valve of the cocoum, or the valve of Talpius.

The beginning of the large intestines is firmly tied

down in the right iliae region, and for the extent of about four fingers' breadth is called the cocum, having adhering to it a worm-like process, called the processus caci vermiformis, or appendicula caci vermiformis. The great intestine then commences colon, ascends towards the liver, passes across the abdomen, under the stomach, to the left side, where it is contorted like the letter 8, and descends to the pulvis: hence it is divided in this course into the ascending portion, the transverse arch, and the sixmoid flexure. When it has reached arch, and the sigmoid flexure. When it has reached the pelvis, it is called the rectum, from whence it proceeds in a straight line to the anus.

The intestinal canal is composed of three membranes, or coats: a common one from the peritoneum, a penscular coat and a vellous coat, the villabeing formed of the fine terminations of arteries and nerves, and the origins of lacteals and lymphatics. The intestines are connected to the body by the mesentery; the duodenum has also a peculiar collecting cellular substance, as have likewise the colon and rectum, by whose means the former is firmly accreted to the back, the colon to the kidneys, and the latter to the os coccygis, and, in women, to the vagina. The remaining portion of the tube is loose in the cavity of the abdomen. The artethe is loss in the cavity of the abdomen. The arteries of this canal are branches of the superior and inferior mesonetrie, and the tundenal. The veins exactate their blood into the vena porter. The negres are branches of the eight pair and intercostals. The lacted ressels, which originate principally from the jointum. Present of the absolute the magnitude. jejunum, proceed to the glands in the mesentery.

INTRAFOLIACEUS. Applied to stipulæ, which are above the footstalk, and internal with respect to the leaf; as in Ficus carica and . Worus nigra

INTRICATUS. 'From intrico, to entangle; so called

INTROCE'SSIO. (From entrace, its consigner, so cancer from its intricate folds.) A muscle of the ear. INTRA'SSECUS. (From intra, within, and secus, towards.) A painful disorder of an internal part INTROCE'SSIO. (From entracedu, to go in.) Depres-

INTROCE's sto. (From introceda, to go in.) Depressio. A depression or sinking of any part inwards.

INTUS-SUSCEPTION. (Intus-susceptia, and intro-susceptia; from intus, within, and suscipio, to receive.) A disease of the intestinal tube, and most frequently of the small intestines; it consists in a portion of gut passing for some length within another portion. INTYBUS. (From in, and tuba, a hollow instrument: so named from the hollowness of its stalk.) See

Cichorium endivia.

TNULA. (Contracted or corrupted from helenium, ηλεμου, fabled to have sprung from the tears of Helen.)

1. The name of a genus of plants in the Linneau system. Class, Syngenesia: Order, Polygamia superflua.

2. The herb inula, or elecampane. See Inula hele-

Inula, common. See Inula helenium

INULA CRITHMOIDES. Caaponga of the Brazilians.
Trifolia spica; Crithmum marinum non spinosum.
The leaves and young stalks of this plant are pickled for

The leaves and young stalks of this plant are pickled for the use of the table; they are gently diuretic.

INULA DYSENTERICA. The systematic name of the smaller inula, Conyza media. Arrica Suedensis, Arrica spurio, Conyza: Inula—amplexicaudibus, cordato oblongis; caule villoso, paniculato; squamis calycinis, sctaecis, of Linneus. This indigenous plant was once considered as possessing great antidysenteric virtues. The whole herb is to the taste acrid, and at the same time rather aromatic. It is now failen into discontinuous plant was considered as possessing great antidysenteric virtues. same time rather aromatic. It is now fallen into dis-

INULA HELENIUM. The systematic name of the common lunda or ekecampane. Enula campana: Helenian. Inula-foliis amplexicaulibus ovatis rugosis subtus tomentosis, calycum squamis ovatis, of Linnaus. This plant, though a native of Britain, is seldom met with in its wild state, but mostly cultivated. The root, which is the part employed medicinally, in its recent state, has a weaker and less grateful smell than when thoroughly dried, and kept for a length of time, by which it is greatly improved; its odour then approaching to that of Florentine orris-root. It was formerproaching to that of Florentine orns-root. It was to thereby in high estimation in dyspepsia, pulmonary affections, and uterine obstructions, but is now fallen into disuse. From the root of this plant, Rose first extracted the peculiar vegetable principle called invity. Funks has since given the following as the analysis of elecampane root:—A crystallizable volatile oil; inulin; extractive; acetic acid; a crystallizable resin; gluten; a fibrous See Inulin.

In examining the Inula helenium, or Elecampane, Rose imagined he discovered a new vege-table product, to which the name of Invlin has been given. It is white and pulverulent, like starch. When thrown on red-hot coals, it melts, diffusing a white smoke, with the smell of burning sugar. It yields, on distillation in a retort, all the products furnished by gum. It dissolves readily in hot water; and precipitates almost entirely on cooling, in the form of a white powder; but before falling down, it gives the liquid a mucilaginous consistence. It precipitates quickly on

the addition of alkohol. The above substance is obtained by boiling the root of this plant in four times its weight of water, and leaving the liquid in repose. Pelletier and Caventou hance tound the same starch-like matter in abundance in the root of colchicum: and Gautier in the root of pellitory.

INUSTION. (From in, and uro, to burn.) It is sometimes used for hot and dry seasons; and formerly by

Uthes used for hot and dry seasons; and formerly by surgeons for the operation of the cantery.

INVERGENT NOTM OS. (From in, not, and verecundus modest.) An obsolete name of the frontal bones, from its being regarded as the seat of impudence inversion. Inversio. Turned inside outward.

INVOLUCELLUM. A partial involucrum. See

Involution. (From m, and volvo, to wrap up; because parts are enclosed by t.) In anatomy, 1. A name of the pericardium.

2. A membrane which covers any part

In botany. A leafy calyx, remote from the flower, applied particularly to umbelliferous plants.

From the part of the umbel in which it is placed, it

is called

Involucrum universaic, being at the base of the whole umbel; as in Cornandrum sativum, Scandix cerefolium, and Cornus mascula.

2. I. partiale, called involucellum; at the bottom of each umbellula, or partial stalk of the umbel; as in

Daucus carota.

3. I. dimidiatum, surrounding the middle of the stalk at the base of the umbel; as in Ethusa cynapium.
From the number of the involucre leaves

4. Monophyllous; as in Coriander and Hermas.
5. Tryphillous; as in Bupleurum junceum.
6. Polyphillous; as in Bunium bulbocastunum, and

7. Pinnatifid; as in Daucus carosa, and Sium angust folium

8. Reflex, turned back; as in Selinum monnieri.
Solitary flowers rarely have an involucrum; yet it

is found in the anemones. INVOLUTUS. Invo Involute. Rolled inwards. INVOLUTUS. Involute. Rolled inwards. Applied to leaves, petals, &c. when their margins are turned inward; as in the leaves of Pingurcula, and petals of Janchum, Pastimaca, and Bupleurum.

IODATE. A compound of iodine with oxygen, and a metallic basis. The oxiodes of Davy.

Lones. (From 105, verdigris.) Green matter thrown

vomiting

IODIC ACID. Acidum indicum. Oxiodic acid. When barytes water is made to act on iodine, a so-When barytes water is made to act on iodine, a soluble laydriodate, and an insoluble lodate or barytes, are formed. On the latter, well washed, pour sulphiric acid, equivalent to the barytes present, diluted with twice its weight of water, and heat the mixture. The iodic acid quickly abandous a portion of its base, and combines with the water; but though even less than the equivalent proportion of sulphuric acid has been used, a little of it will be found mixed with the liquid acid. If we endeavour to sengrate this portion by acid. If we endeavour to separate this portion, by adding barytes water, the two acids precipitate to-

adding baryles water, the two-sess is that of Gay Lusgether.

The above economical process is that of Gay Lussac; but Sir H. Davy, who is the first discoverer of this acid, invented one more elegant, and which yields a purer acid. Into a long glass tube, bent like the letter L invented, (7] shut at one cnd, put 100 grains of muriatic acid, specific gravity 1,105. Put 40 grains of ioduse into sethin long-necked receiver. Into the open end of the bent tube put some muriate of lime, and then compact it with the receiver. Apply a gentle heat end of the bent tube put some muriate of lime, and then connect it with the receiver. Apply a gentle heat to the sealed end of the former. Protoxide of chlorine is evolved, which, as it comes in contact with the iodine, produces combustion, and two new compounds, a compound of iodine and oxygen, and one of iodine and chlorine. The latter is easily separated by heat, while the former remains in a state of purity.

The iodic acid of Sir H. Davy is a white semitransmand, solid. It has a strong migo-astringent laste.

parent solid. It has a strong acido-astringent taste, but no smell. Its density is considerably greater than but no smell. Its density is considerably greater than that of sulphuric acid, in which it rapidly sinks. It melts, and is decomposed into iodine and oxygen, at a temperature of about 6300. A grain of iodic acid gives out 176.1, grain measure, of oxygen gas. It would appear from this, that iodic acid consists of 15.5 iodine,

to 5 oxygen

to 5 oxygen.

Iodic acid deliquesces in the air, and is, of course, very soluble in water. It first reddens and then destroys the blues of vegetable infusions. It blanches other vegetable colours. Between the acid prepared by Gay Lussac, and that of Sir H. Davy, there is one important difference. The latter, being dissolved, may, by evaporation of the water, pass not only to the inspirssated syrup state, but can be made to assume a pasty consistence; and, finally, by a stronger heat, yields the solid substance unaltered. When a mixture of it, with charcoal, sulphur, resin, sugar, or the comyields the solid substance unautered. Yields the solid substance unautered of it, with charcoal, sulphur, resin, sugar, or the combustible metals, in a finely divided state, is heated, detonations are produced; and its solution rapidly cortodes all the metals to which Sir H. Davy expussed it, both gold and platinum, but much more intensely the first of these metals.

phuric acid is dropped into a concentrated solution of it in hot water, a solid substance is precipitated, which consists of the acid and the compound; for, on evaporating the solution by a gentle heat, nothing rises but water. On increasing the heat in an experiment of this kind, the solid substance formed fused; and on cooling the mixture, rhombondal crystals formed of a pale yellow colour, which were very fusible, and which did not change at the heat at which the com-

which did not change at the heat at which the compound of exygen and iedine decomposes, but subinned unaltered. When urged by a much stronger heat, it partially sublimed, and partially decomposed, affording exygen, iodine, and sulphuric acid.

With hydro-phosphoric, the compound presents phenomena precisely similar, and they form together a solid, yellow, crystalline combination.

With hydro-nitric acid, it yields white crystals in rhomboidal plates, which, at a lower heat than the preceding acid compounds, are resolved into hydronitric acid, oxygen, and iodine. By liquid muriatic acid, the substance is immediately decomposed, and the compound of chlorine and iodine is formed. All these acid compounds redden vegetable blues, taste sour, and dissolve gold and platinum. From these curious researches Sir II. Davy inters, that Gay Lussee's iodic acid is a sulpho-iodic acid, and probably a curious researches Sir H. Davy infers, that Gay Lusseae's iodic acid is a sulpho-iodic acid, and probably a definite compound. However minute the quantity of sulphuric acid made to act on the iodide of barium may be, a part of it is always employed to form the compound acid; and the residual fluid contains both the compound acid and a certain quantity of the original salt."—Ure.

IODIDE: Iode; Iodure. A compound of iodine with a metal; as Iodide of potassium.

IODINE. (Iodina; from uobys, a violet colour, so termed from its beautiful colour.) A peculiar or un decompounded principle.

decompounded principle.
"Iodine was accidentally discovered, in 1812, by De Courtois, a manufacturer of saltpetre at Paris. his processes for procuring soda from the ashes of sea-weeds, he found the metallic vessels much corroded; weeds, he found the metallic vessels much corroded; and, in searching for the cause of the corrosion, he made this important discovery. But for this circumstance, nearly accidental, one of the most curious of substances might have remained for area unknown, since nature has not distributed it, in either a simple or compound state, through her different kingdoms, but has confined it to what the Roman satirist considers as the most worthless of things, the vice seaweed.

In dimederived its first illustration from Clement and Deservers. In their memoir read at a meeting of the

Desormes. In their memoir, read at a meeting of Institute, these able chemists described its principal properties. They stated its sp. gr. to be about 4; that it becomes a violet-coloured gas at a temperature be-low that of boiling water,—whence its name; that it combines with the metals, and with phosphorus and sulphur, and likewise with the alkalies and metallic suppur, and likewise with the alkalies and metallic oxides; that it forms a detonating compound with ammonia; that it is soluble in alkohol, and still more soluble in ether; and that, by its action upon plosphorus and upon hydrogen; a substance having the characters of muriatic acid is formed. In this communication they offered no decided opinion respecting its

In 1813, Sir H. Davy happened to be on a visit to In 1813, Sir II. Davy happened to be on a visit to Paris, receiving, amid the political convulsions of France, the tranquil homoge due to his genius. 'When Clement showed iodine to me,' says Sir II. Davy, 'he believed that the hydriodic acid was muriatic acid; and Gay Lussac, after his early experiments, made originally with Clement, formed the same opinion, and maintained it, when I first stated to him my belief, that it was a new and pseudiar acid, and that ioding was a substance analogous in its chemical relations to was a substance analogous in its chemical relations to chlorine.

Iodine has been found in the following seaweeds, the Algo aquatico of Linnaus:-Fucus cartilagineus, Fucus

Fucus palmatus, membranaccus filamentosus, digitatus, rule-ns, saccharinus, Ulva umbilicalis, nodosus. serratus, pavonia,

siliquosus, linza, and in sponge. It is from the incinerated seaweed, or kelp, tha dine in quantities is to be obtained. Dr. Wolfaston It appears to form combinations with all the fluid or indine in quantities is to be obtained. Dr. Wolfaston collid acids which it does not decompose. When sul- first communicated a precise formula for extractive is

Dissolve the soluble part of kelp in water. Concentrate the liquid by evaporation, and separate all the crystals that can be obtained. Pour the remaining crystais that can be obtained. Four the remaining liquid into a clean vessel, and mix with it an excess of sulphure acid. Boil this liquid for some time. Sulphur is precipitated, and muriatic acid driven off. Decant off the clear liquid, and strain it through wool. Put it into a small dask, and mix it with as much black oxide of manganese as we used before of sulphurance. rie acid. Apply to the top of the flask a glass tube, shut at one end. Then heat the mixture in the flask. The iodine sublimes into the glass tube. None can be obtained from sea-water

lodine is a solid, of a grayish-black colour and me-tallic lustre. It is often in scales similar to those of mineaccoust in the other in scales similar to those of mineaccoust into nor, sometimes in rhombordal plates, very large and very brilliant. It has been obtained in clongared octohed-ones, nearly half as inch in length; the axes of which were shown by Dr. Wolfaston to be to each other, as the numbers 2, 3, and 4, at least so nearly, that in a body so volatile, it is scarcely possible to detect an error in this estimate, by the reflective gonometer. Its fracture is lamellated, and it is soft gomonieser. Its tracture is lameliated, and it is soft and friable to the touch. Its taste is very acrid, though it be very sparingly soluble in water. It is a dendly poison. It gives a deep brown stain to the skin, which soon vanishes by evaporation. In odour, and power of destroying vegetable colours, it resembles very diduce aqueous citorine. These, g.r. of iodine at 62½ is 4.948. It dissolves in 7000 parts of water. The solution is of an orange-yellow colour, and in small quantity tinges raw starch of a purple hue

It melts, according to Gay Lussac, at 227° F., and is volatilized under the common pressure of the atmosphere, at the temperature of 350°. It evaporates pretty quickly at ordinary temperatures. Boiling water aids its subhmation, as is shown in the above process of extraction. The snor of its violet various is 8758. It is traction. The sp. gr. of its violet vapour is 8.678. It is a non-conductor of electricity. When the voltaic chain is interrupted by a small fragment of it, the de-

composition of water instantly ceases

composition on water instantly crasses.

Indine is incombustible, but with azote it forms a curious detonating compound; and in combining with several bodies, the intensity of mutual action is such as to produce the phenomena of combustion. Its combinations with oxygen and chlorine are described, under indire and chlornedic acids.

With a view of determining whether it was a simple or compound form of matter. Sir H. Davy exposed it to the action of the highly inflammable metals. When the action of the lighty inflammable metals. When its vapour is passed over potassium heated in a glass tube, inflammation takes place, and the potassium burns slowly with a pale blue light. There was no gas disengaced when the experiment was repeated in a mercu, ai apparatus. The iodide of potassium is white, fusible at a red heat, and soluble in water. It has a peculiar acrid taste. When acted on by sulphune acid, it effervesces, and iodine appears. It is evident that in this experiment there had been no decomposition; the result depending merely on the combination of iodine with potassium. By passing the vapour of iodide over dry red hot potassa, formed from potassium, oxygen is expedied, and the above iodine results. Hence, we see, that at the temperature of ignition, the affinity between rodine and potassium is superior to that of the latter for oxygen. But jodine in its turn is displaced by there for oxygen. But formen its furn is displaced by Chlorine, at a moderate heat, and if the latter be in excess, chloricdic acid is formed. Gay Lussac passed vapour of fodine in a red heat over methed subcarbonate of potassa; and he obtained carbonic acid and oxygen gases, in the proportions of two in volume of the first, and one of the second, precisely those which exist in the salt

The oxide of sodium, and the supcarbonate of soda, are also completely decomposed by iodine. From these experiments it would seem, that this substance ough' to disengage oxygen from most of the oxides; but this happens only in a small number of cases. protoxides of lead and bismuth are the only oxides not proortings of more heat, with which it exhibited that power. Buytes, shoulian, and lime could ine with lodine, without giving out oxygen gas, and the oxides of time and non-undergo no alteration in this respect. From these facts we must conclude, that the decomposition of the state of the s sition of the oxides by iodine depends less on the condensed state of the overten than open the affanty of two metals which do not decompose water will give the metals tor indine. Except barytes, smoothin, and the metals which do not decompose water will give

lime, no oxide can remain in combination with foding at a red heat. For a more particular account of some iodides, see Hypariodic acid; the compounds of which, in the inquid or moist state, are hydriodates, but change, on drying, into wouldes, in the same way as the muriates become chlorides.

From the proportion of the constituents in hydriodic acid, 15.5 has been deduced as the prime equivalent of

lodine.

Iodine forms with sulphur a feeble compound, of a
grayish-black colour, radiated like sulphurei of antimony. When it is distilled with water, lodine separates.

Iodine and phosphorus combine with great rapidity

at common temperatures, producing heat without light. From the presence of a little moisture, small quantities of hydriodic acid gas are exhaled.

Oxygen expels iodine from both sulphur and phos-

Hydrogen, whether dry or moist, did not seem to have any action on iodine at the ordinary tempera-ture; but if we expose a mixture of hydrogen and iodine to a red heat in a tube, they unite together, and hydriodic acid is produced, which gives a reddish indince to a real mean mature, they time to openier, and in hydriodic acid is produced, which gives a reddish brown colour to water. Sir H. Davy threw the violeticoloured gas upon the flame of hydrogen, when it seemed to support its combustion. He also formed a compound of lodine with hydrogen, by heating to redness the two bodies in a glass tube.

Charcoal has no action upon iodine, either at a high or low temperature. Several of the common metals, on the contrary, as zinc, iron, tin, mercury, attack it readily, even at a low temperature, provided they be in a divided state. Though these combinations take place rapidly, they produce but little heat, and but rarely any light.

rarely any light.

rarely say light.

The compound of iodine and zinc, or iodide of zinc, is white. It melts readily, and is sublimed in the state of fine, acticular, four-sided prisms. It is very soluble in water, and rapidly deliquesces in the air. It dissolves in water without the evolution of any gas. The solution is slightly acid, and does not crystallize. The alkalies precipitate from it white oxide of zinc; while concentrated sulphuric acid disengages hydriodic acid and iodine, because sulphurous acid is produced. The solution is a hydriodate of oxide of zinc. When iodine and zinc are made to act on each other under water in vessels hermetically sealed, on the application of a slight heat, the water assumes a deep reddish-brown colour, because, as soon as hydriodic acid is produced, it dissolves iodine in abundance. But hy degrees the zinc, supposed to be in excess, combines with the whole iodine, and the solution becomes colourless like

Iron is acted on by iodine in the same way as zinc; and a brown iodide results, which is fusible at a red heat. It dissolves in water, forming a light green solution, like that of muriate of iron. When the dry iodide was heated, by Sir H. Davy, in a small retort containing pure ammoniacal gas, it combined with the ammonia and formed a compound which volatilized

without leaving any oxide.

without leaving any oxide.

The iodide of tin is very fusible. When in powder, its colour is a dirty orange-yellow, not unlike that of glass of antimony. When put into a considerable quantity of water, it is completely decomposed. Hydrodic acid is formed, which remains in solution in the water, and the oxide of tin precipitates in white flocutii. If the quantity of water be small, the acid, being more concentrated, retains a portion of oxide of tin and forms a silky orange-coloured salt, which may be almost entirely decomposed by water. Iodine and tin act very well on each other, in water of the temperature of 212°. By employing an excess of tin, we may obtain pure hydriodic acid, or at least an acid containing only traces of the metal. The tin must be in considerable quantity, because the oxide which precipitates on its surface, diminishes very much its action on iodine. on iodine.

Antimony presents with iodine the same phenomena as the; so that we might employ either for the preparation of hydriodic acid, if we were not acquainted with

verable methods.

The jodides of lead, copper, bismuth, siver, and mer-cury, are insoluble in water, while the jodides of the very oxidizable ocetals are soluble in that hauld. In we mix a hydriodate with the metallic solutions, all precipitates, while those which decompose that liquid | mandy (in France) for the express purpose of examine will give none. This above-mentioned metals This is at least the case with the

There are two iodides of mercury: the one yellow, the other red; both are fusible and volatile. The yellow or prot-iodide, contains one half less iodine than the deut-iodide. The latter when crystallized is a bright crimson. In general, there ought to be for each metal as many iodides as there are oxides and chlorides. All the iodides are decomposed by concentrated suplurite and nitric acids. The metal is converted into an oxide, and iodine is disengaged. They are likewise decomposed by oxygen at a red heat, if we except the iodides of potassium, sodium, lead, and bismuth. Chlorine likewise separates iodine from all the iodides; but iodine, on the other hand, decomposes most of the sulphurets and phosphurets. There are two iodides of mercury; the one vellow, phurets and phosphurets.

When iodine and oxides act upon each other in con-

When iodine and oxides act upon each other in contact with water, very different results take place from those above described. The water is decomposed; its hydrogen unites with iodine, to form hydriodic acid; while its oxygen, on the other hand, produces with iodine, iodic acid. All the oxides, however, do not give the same results. We obtain them only with potassa, soda, barytes, strontian, lime, and magnesia. The oxide of zine, precipitated by ammonia from its solution in suphuric acid, and well washed, gives no trace of iodate and hydriodate.

From all the above recited facts, we are warranted.

From all the above-recited facts, we are warranted in concluding iodine to be an undecompounded body. In its specific gravity, lustre, and magnitude of its prime equivalent, it resembles the metals; but in all prime equivalent, it resembles the metals, our man its chemical agencies, it is analagous to oxygen and chlorine. It is a non-conductor of electricity, and possesses, like these two bodies, the negative electrical energy with regard to metals, inflammable and alkaline substances; and hence, when combined with these substances; and rece, when combined with these substances in aqueous solution, and electrised in the voltaic stances in aqueous solution, and electrised in the voltate circuit, it separates at the positive surface. But it has a positive energy with respect to chlonine: for when united to cliorine, in the chloriodic acid, it separates at the negative surface. This likewise corresponds with their relative attractive energy, since chlorine expels lodine from all its combinations. Iodine dissolves in carburet of sulphur, giving, in very minute quantities, a fine amethystine tint to the liquid.

Indide of mercury has been proposed for a pigment.

Orfila swallowed 6 grains of iodine; and was immediately affected with heat, constriction of the throat,
hausea, cructation, salivation, and cardialgia. In ten natuses, erucation, salivation, and cardialgia. In ten-minutes he had copious bilious vomitings, and slight colic pains. His pulse rose from 70 to about 90 beats in a minute. By swallowing large quantities of muci-lage, and emollient clysters, he recovered, and felt nothing next day but slight futigue. About 70 or 80 grains proved a fattal dose to dogs. They usually died on the fourth or fifth day.

Dr. Cojudet of Ganary has recommended by the

Dr. Coindet of Geneva has recommended the use of lodine in the form of tincture, and also hydriodate of potassa or soda, as an efficacious remedy for the cure of glandular swellings, of the goitrous and scrofulous kind. I have found an ointment composed of 1 oz. hog's land, and 1 drachm of iodide of zinc, a powerful external application in such cases. About a drachm of this ointment should be used in friction on the swelling once or twice a-day."—Ure's Chem. Diet.

[This powerful remedy, which has recently been introduced into practice, is obtained from the plants affording soda, or the vegetables called "Varecks," by the French, or from other species of the algae or seaweeds. A species furnishing a more considerable portion of iodine than its congeners is the Fucus saccharinus, or Sugar-seaweed, belonging to the class lodine in the form of tincture, and also hydriodate of

portion of rodine than its congeniers is the Fucus sac-charians, or Sugar-scaeced, belonging to the class Cryptogamia, order Algae.

In the year 1815, Dr. Mitchill received from Mr. G.
De Claubry, of Paris, his researches upon this subject.
His particular objects were to find whether rodine ex-His particular objects were to find whether iodine existed in ocean-water, and the condition and manner of its evolution from the vegetables that furnished the soda or sait of Varecks. He ascribes the discovery of this substance to Messrs. Macquer and De La Salle, who, in their experiments upon the Varecks or seaweeds, discovered iodine in the mother-water of the soda they afforded. This fact he deemed sufficiently important to encourage chemists to look for it in the Vegetables themselves, from which that kind of soda Wgs obtained. He made a interpart to the vest of New Land Control of the control was obtained. He made a journey to the west of Normanny (in trained) for the express proposed (examin-ing upon the spot the different species of Fucus; and he obtained from the able botanist of Caen, various kinds of these narme plants, which he submitted to experiment. His analyses were chiefly made upon the following sorts, viz.

I. Of the Family of the Ulvæ.

1. The Ulva saccharina.

digitata.

3. The Fucus saccharinus, of Linnaus.

4. .. digitatus,
II. Of the Family of the Varecks. 1. The Fucus vesiculosus.

3. .. siliquosus.

III. Of the Family of the Ceramium.

1. The Ceramium filum, or the Fucus filum,

Such and other seaweeds are gathered on the shores Such and other seaweeds are gathered on the shores of the ocean, among other purposes, for that of being burned to ashes, for the preparation of the fixed alkali, called the soda or said of Varocks by the French and Dutch, as distinguished from the soda or burilla, made by burning the maritime plant called salsola. The product of the above-mentioned scaweeds is a compliacted mixture of things, such as,

1. A small quantity of the subcarbonate of soda.

2. A good deal of the hydro-chlorate of soda.

3. . . . sulphate of soda.

Sulphate of magnesia.

4. Sulphate of magnesia.
5. Hydro-chlorate of potash and magnesia.
6. Subcarbonate of potash.
7. A little sulphuretted sulphate of soda, and
8. A minute portion of the hydro-iodate of potash.
The poverty of this sort of soda gives it but little value in commerce, its chief consumption being in the glass manufactures.

It is called kelp, and contains much less soda than hardla.

It was in the mother waters of the leys or liviviums of both the rigidus was first discovered as is said by

kelp that iodine was first discovered, as is said by Mr. Courtois. All the foregoing products were consequent upon the preceding incineration of the fue. As a number of these fuel are employed in their recent state as human food, (as is the fueus edulis) the several sorts acquired an interest corresponding to their usefulness, as applicable for manure, for making kelp or

On burning the fucus saccharinus, one of the results of a most elaborate and complicated analysis of the residue, was that potash was associated with iodine in

residue, was that potash was associated with indicae in the form of a hydrocanture, the hydrociaduced potash. As a general remark, he says, that the species of fuci which contain the most mucilage, contain more indicate than the others, by a large difference.

This analysis of ocean or sea-water, proved that it contained no iodine; therefore it may be fairly concluded, that the peculiar article under consideration, is prepared, or elaborated, by the living economy of these marine vegetables. Of the fuci he analyzed, the fucus acceleration which contained more of it then the other saccharinus which contained more of it than the other saccharinus which contained more of it than the other species. This species, treated with sulphuric acid, yielded immediately the lodine it contained, without the process of burning to ashes. This saves the trouble of resorting to the same more, or mother water, to obtain it. The lodine has an affinity to oxygen, and under convenient circumstances, forms the hydro-lodic

Iodine is particularly acted upon by starch, and other vegetable feeula, whereby it acquires, in the cool and dry way by trituration, a violet colour, passing into blue and black, according to the relative proportions of the iodine and starch employed. The line is real-disk if the starch predominates: a superb blue, if the interesting the control of the iodine and starch employed. dish if the starch predominates; a superb blue, if the ingredients are duly apportioned; and black, if the iodine is in excess; as also worker of different shades, between the reds and blues. By a particular process, iodine may be obtained white. This is shown in the memoir of Messas. Coim and Claubry, on the combination of iodine with vegetable and animal substances, as contained in the Annals of Chemistry for 1814.

It has lately been discovered, that iodine existed in small quantity, with a portion of carbon, and of the other muriate and carbonate of soda, in the officinal preparation cailed burnt sponge, or pulvis spongio

The sponges are in modern zoology, classed among

the zoophytes. They are marine productions, of a colour. fibrous and tough constitution, covered with a slimy matter, in which it has not yet been possible to disco-ver either polypes, or other moveable parts, nor any decided proofs of animality. It seems, nevertheless, decided proofs of animality. It seems, nevertheless that hving sponges evince a kind of shrinking, or contraction, on being touched, and that there is a sort of palpitation in the pores with which the body of the sponge is pierced.

From such feeble evidence of the animal nature of the sponge, it has been doubted by some naturalists, whether they ought to be referred to the animal kingdom. By others they have been roundly pronounced to be vegetables. Dr. Mitchill's opinion is, that from the analysis of sponge, the proximity of the results to those of varecks and other seaweeds, and more especially the detection and presence of iodine, is in favour

of the vegetable character of sponge

Burnt sponge was admitted into the Edinburgh New Dispensatory, for the first time, in 1786, by reason of the reputation it had acquired as a remedy for scrofulous and cutaneous diseases, for removing obstructions in the glands, and among others, for lessening and removing the bronchocele. There the process for reducing it to ashes is detailed. The dose is a scruple several times a-day.

Now, since the discovery of iodine in the ashes of sponge, modern physicians have ascribed the chief virtue, against the aforesaid disorders, to this ingredient. The conjecture is a rational one; for it is more probable its efficiety proceeds from the iodine than from the charcoal and neutral salts.

Upon the faith of this interpretation, it was conceived better to prescribe the iodine by itself, or in known and exact combination, than in form of burnt sponge, and as sponge contained this active principle, it was naturally concluded, that the iodine would be in all respects as good when prepared from the seawrecks as from sponges

In that ugly and obstinate disorder, the goitre, Dr. In that ugly and business basiness, the gones, the context of Geneva, in Switzerland.) has prescribed iodine with remarkable success. The preparation he employs requires explanation, by reason of its chemical intricacy. To understand the receipt we must intricacy. To understand the intricacy. The forms of iodine are, recapitulate.

1. Simple iodine. 2. Oxide of iodine, by starch or other fecules. 3. Iodic-acid. 4. Hydro-iodic acid. Hydro-iodate of potash, by burning, &c.

Dr. Coindet or potash, by burning, &c.

Dr. Coindet prescribes what is termed "Ioduretted hydro-iodate of potash." To prepare this the hydro-iodate acid must first be procured, which is done thus: Take of alkoholic spirit, pure iodine, any quantities. Then pass sulphuretted hydrogen through the solution. This forms the hydro-iodic acid. The next process is, to take potash and hydro-iodic acid, and combine them to saturation. This forms Dr. Coindet's medicine. The hydro-iodate of notash—To reduce this into a few to eaturation. This forms Dr. Coindet's medicine. The hydro-todate of potash.—To reduce this into a form for medicinal prescription, he proceeds as follows: Take of the hydro-todate of potash, grs. 36. Pure iodine, grs. 10. Distilled water, \(\frac{3}{2}\)j. m.

This is the ioduretted hydro-todate of potash. It is so active a preparation, that a full dose is from 5 to 10 drops three times a-day in syrup. The dose may be reachedly increased exceeding to circumstances. but

gradually increased, according to circumstances, but with great caution, to the extent of 20 drops. It must be remembered, whenever it is administered, an overdose must be avoided, as it acts with an extreme and

dangerous effect upon the constitution

They say, that after a few weeks' skilful administra-They say, that duer a tew weeks skill daministra-tion, the external swelling will gradually disappear. Should the patient, while under a course of it, experi-ence any considerable quickening of the pulse, a rapid loss of flesh, palpitation of the heart, a dry cough, restlessness, and want of sleep, and in certain cases with an increase of appetite for food, though the swelling shall undergo diminution, it will be necessary to intermit the medicine for some days; and afterward resume the use of it when the health and safety of the patient will permit -Notes from Mitchill's Lects. on Med.

IODO-SCLPHURIC ACID. "When sulphuric acid is poured, drop by drop, into a concentrated and hot aqueous solution of iodic acid, there immediately results a precipitate of iodo-sulphuric acid, possessed of peculiar properties. Exposed gradually to the action of a gentle heat, the iodo-sulphuric acid melts, and crys tallizes on cooling into rhomboids of a pale yellow

colour. When strongly heated, it sublimes, and to partially decomposed; the latter portion being converted into oxygen, iodine, and sulphuric acid.

into oxygen, iodine, and sulphuric acid.
Phosphoric and nitric acids exhibit similar phenomena. These compound acids act with great energy on the metals. They dissolve gold and platinum.
IOLITE. Dichroite. Prismato-rhomboidal quartz of Mohs. This is of a colour intermediate between black, blue, and violet-blue. When viewed in the direction of the axis of the crystals, the colour is dark intermediate by memoralicular to the axis of the crystals. indigo blue; but perpendicular to the axis of the crystals, pale brownish-yellow. It comes from Finland.

l'onis. (From toy a violet.) A carbuncle of a violet

IO NTHUS. (From ιον, a violet, and ανθος, a flower.)

A pimple in the face, of a violet colour.

IOTACTSMUS. (From ward, the Greek letter t.)

A defect in the tongue or organs of speech, which renders a person incapable of pronouncing his letters. IPECACUA'NHA. (An Indian word.) See Calli-

cocca ipecacuanha.

[IPECACUANHA SPURGE. See Euphorbia ipecacu-

IPOMCEA. (So called by Linnaus from , which he unaccountably mistakes for the convolvulus plant, whereas it means a creeping sort of worm that infests and corrodes vines, and ognoso, like. By this appellation he evidently intended to express the close resemblance of Ipomwa to the genus Convolvulus, with which it agrees in habit altogether.) The name of a

which it agrees in habit altogether.) The name of a genus of plants in the Linnean system. Class, Pentandria; Order, Monogynia.

Iromea quamociat: Batala peregrina. The cathartio potato. If about two ounces are eaten at bedtime, they gently open the howels by morning.

Iquera'la. The inhabitants of the Brazils give this name to the Scraphularia aquatica, which is there celebrated as a corrector of the ill flavour of senna.

IRACIUNITS. Creming agency as called because

RACU'NDUS. (From ira, anger: so called because it forms the angry look.) A muscle of the eye.

IRIDIUM. A metal found with another, called osmium, in the black powder left after dissolving plati-See Platinum

TRIS. (A rainbow: so called because of the variety of its colours.)

1. The anterior portion of the continuation of the choroid membrane of the eye, which is perforated in the middle by the pupil. It is of various perforated in the middle by the pupil. It is of various colours. The posterior surface of the iris is termed the colours. The posterior surva-unea. See Choroid membrane.

2. The flower-de-luce, from the resemblance of its flowers to the rainbow.

flowers to the rainbow.

3. The name of a genus of plants in the Linnean system. Class, Triandria; Order, Monogynia. Its florentime orgis, or iris. The root of this plant, Iris—corollis barbatis, caude falis altiore subbiflore, floribus sessitious, of Linneus, which is indigenous to Italy, in its recent state is extremely acrid, and, when chewed, excites a pungent heat in the mouth, that continues several hours: on being dried, this acrimony is almost wholly dissipated; the taste is slightly bitter, and the smell agreeable, and approaching to that of violets. The fresh root is cathartic, and for this purpose has been employed in dropsies. It is now chieffy used in its dried state, and ranked as a pectoral and expectorant; and hence has a ranked as a pectoral and expectorant; and hence has a place in the trochisci amyli of the pharmacopæias.

Iris, florentine. See Iris florentina.

Iris, florentine. Bee Iris florentina.

IRIS GERMANICA. The systematic name of the common lins, or ornis, or flower de-luce. Iris nostra. The fresh roots of this plant, Iris—corolles barbatis, caule folis altiori multifloro, floribus inferioribus pedunculatis, of Linnaus, have a strong, disagreeable smell, and an acrid, nauseous taste. They are powerfully cathartie, and are given in dropsical diseases, where such remedies are indicated.

IRIS NOSTRAS. See Iris germanica.

IRIS PALUSTRIS. See Iris pseudacorus.

IRIS PALUSTRIS. See Iris pseudacorus.

IRIS PSEUDACORUS. The systematic name of the yellow matering. Iris palustres; (itadiolus luteus; Acorus vulgaris. This indigenous plant, Iris—imyellow water-ing.

Acorus vulgaris. This indigenous plant, Iris—imberbis, foliis ensiformibus, petalis alternis, stigmatibus mineribus, is common in marshes, and on the
bunks of rivers. It formerly had a place in the London
Pharmacoparia, ander the name of Chalibdus luteus.

The root is without smell, but has annead stypic taste,
and its paice, or being sunfied up the nostrils, produces and its price, or bring statues a burning heat in the no-e and mouth, accompanied by 463

a copious discharge from these organs: hence it is ! recommended both as an errhine and sialagogue. Given Internally, when perfectly dry, its adstringent qualities are such as to cure diarrheas. The expressed juice is likewise said to be a useful application to serpigmous eruptions and serofulous tumours.

reuptions and serofulous timours.

Irish State. See Lapis Hybernicus.

IRI'TIS. (Iritis, ids. ft; from iris, the name of the membrane.) Inflammation of the iris: it produces the symptoms of deepseated or internal inflammation of the eye. See Ophthalmia.

IRON. Ferrum. Of all the metals, there is none which is so copiously and so variously dispersed through nature as iron. In animals, in vegetables, and in all parts of the mineral kingdom, we detect its presence. Mineralogists are not agreed with respect to the existence of native iron, though immense masses of it have been discovered, which could not have been the products of art; but there is much in favour of the notion that these specimens have been extracted by subterraneous fire. A massof native iron, of 1600 pounds weight, was found by Pallas; on the river Denisel, in Siberia; and another mass of 300 pounds was found in Paraguay, of which specimens have been distributed everywhere. A piece of native iron, of two pounds weight, has been A piece of native iron, of two pounds weight, has been A piece of native iron, of two points weight is a also met with at Kamsdorf, in the territories of Neu-stadt, which is still preserved there. These masses evidently did not originate in the places where they were found.

Specimens of native iron have been found in several places in America, in situations which give rise to the places in America, in situations which give rise to the conjecture, that they were of meteoric origin. One of the largest of these has been deposited by its owner, Colonel Gibs, in the Cabinet of the New-York Lyceum of Natural History. It is an irregular mass, weighing upwards of 3000 lbs. "Its surface, which is covered by a blackish crust, is greatly indented, from which it would appear that this mass had been in a soft state. On removing the crust, the iron, on exposure to moisture, soon becomes oxidated. Sp. gr. 7.400.

"It appears to consist entirely of iron, which possesses a high degree of malleability; experiments have been made without detecting nickel or any other metal. This enormous mass of iron is said to have

metal. This enormous mass of iron is said to have been found near the Red river, in Louisiana."—Bruce's

been found near the Redriver, in Louisiana."—Bruce's Min. Journal. A.]

There are a vast variety of iron ores: they may, however, be all arranged under the following genera; namely, sulphurets, carburets, oxides, and saits of iron. The sulphurets of iron form the ores called Pyrites, of which there are many varieties. Their colour is, in general, a straw-yellow, with a metallic lustre; sometimes brownish, which sort is attracted by the magnet. They are aften amorphous, and often also crystallized. They are often amorphous, and often also crystallized They are often amorphous, and often also crystallized. Iron, in the state of a carburet, forms the graphite of Werner (plumbago). This mineral occurs in kidneyform lumps of various sizes. Its colour is a dark irongray, or brownish-black; when cut, bluish-gray. It has a metallic lustre. Its texture is fine-grained. It is very brittle. The combination of iron with oxygen is very abundant. The common magnetic ironstone, or load-stone, belongs to this class; as does specular iron ore, and all the different ores called hometies or hands then they have been supported to the class. tites, or blood-stone. Iron, united to carbonic acid, exists in the sparry iron ore. Joined to arsenic acid, it exists in the ores called arseniate of iron, and arse-

niate of iron and copper.

[The different varieties of the ores of iron are arranged as follows in Cleaveland's Mineralogy, which is a standard work on the subject in the United States:—

Species 1. Native iron. 2. Arsenical iron.

a. Argentiferous arsenical iron: 3. Sulphuret of iron. Iron Syrites.
a. Common sulphuret of iron.

b. Radiated

c. Hepatic Sub-species 1. Magnetic sulphuret of iron. 2. Arsenical

4. Magnetic oxide of iron a. Native magnet.b. Iron sand.

5. Specular oxide of iron.
Sub-species 1. Micaceous oxide of iron. Red oxide of iron.

Scaly red oxide of iron.

b. Red hematite.

c. Compact red oxide of Iron. d. Ochrey red oxide.

Species 7. Brown oxide of iron. a. Scaly red oxide of iron Hematitic .. c. Compact

d. Othrey ... Argillaceous oxide of iron.

a. Columnar argillaceous oxide of tron Lenticular

d. Nodular e. Common f. Bog ore.

f. Bog ore.
Carbonate of iron.
Sulphate of iron.
Phosphate of iron.
a. Foliated phosphate of iron.

b. Earthy ...

Arseniate of iron. Chromate of iron.

a. Crystallized chromate of iron.

b. Granular

b. Granular
c. Amorphous
Properties of iron.—Iron is distinguished from every
other metal by its magnetical properties. It is attracted
by the magnet, and acquires, under various conditions,
the property of attracting other iron. Pure iron is of a
whitish gray, or rather bluish colour, very slightly
livid; but when polished, it has a great deal of brilliancy. Its texture is either fibrous, fine-grained, or in
dense plates. Its specific gravity varies from 7.6 to
7.8. It is the hardest and most elastic of all the metals.
It is extremely ductile, and may therefore be drawn into It is extremely ductile, and may therefore be drawn into wire as fine as a human hair; it is also more tena-cious than any other metal, and yields with facility to pressure. It is extremely infusible, and when not in contact with the fuel, it cannot be melted by the heat which any furnace can excite; it is, however, softened by heat, still preserving its ductility; and when thus softened, different pieces may be united; this consti-tutes the valuable property of welding. It is very soltened, dinerent pieces may be united; this constitutes the valuable property of welding. It is very dilatable by heat. It is the only metal which takes fire by the collision of fiint. Heated in contain with air it becomes oxidized. If intensely and briskly heated, it takes fire with scintillation, and becomes a black wild. It takes fire with scintillation, and becomes a black oxide. It combines with carbon, and forms what is called steel. It combines with phosphorus in a direct and an indirect manner, and unites with sulphur readily by fusion. It decomposes water in the cold slowly, but rapidly when ignited. It decomposes most of the metallic oxides. All acids act upon iron. Very concentrated sulphuric acid has little or no effect upon it, but when diluted it oxidizes it rapidly. The nitric acid oxidizes it with great vehemence, Muriate of ammonia is decomposed by it. Nitrate of potassa detonates very vigorously with it. Iron is likewise dissolved by alkaline sulphurets. It is capable of combining with a number of metals. It does not unite with lead or bismuth, and very feebly with mercury. It detonates by muth, and very feebly with mercury. It detonates by percussion with the oxygenated muriates

muth, and very feebly with mercury. It detonates by percussion with the oxygenated muriates.

Method of obtaining iron.—The general process by which iron is extracted from its ores, is first to roast them by a strong heat, to expel the sulphur, carbonic acid, and other mineralizers which can be separated by heat. The remaining ore, being reduced to small pieces, is nixed with charcoal, or coke; and is then exposed to an intense heat, in a close furnace, excited by bellows; the oxygen then combines with the carbon, forming carbonic acid gas during the process, and the oxide is reduced to its metallic state. There are likewise some fluxes necessary in order to facilitate the separation of the melted metal. The matrix of the iron ore is generally either agailiaceous or calcareous, or sometimes a portion of siliceous earth; but whichever of these earths is present, the addition of one or both of the others makes a proper flux. These are therefore added in due proportion, according to the nature of the ores; and this mixture, in contact with the fuel, is exposed to a heat sufficient to reduce the oxide to its metallic state.

The metal thus obtained, and called smelted, pig, or east iven, is far from him proper flux.

The metal thus obtained, and called smelted, pig, or cast iron, is far from being pure, always retaining a considerable quantity of carbon and oxygen, as well as several heterogeneous ingredients. According as one or other of these predominates, the property of

the metal differs. Where the oxygen is present in a large proportion, the colour of the iron is whitish gray; it is extremely brittle, and its fracture exhibits an appearance of crystallization: where the carbon exceeds, pearance of crystallization; where the curbon exceeds, it is of a dark gray, inclining to blue, or black, and is less brittle. The former is the relate, the fatter the black crude iron of connecve. The gray is internediate to both. In many of these states, the Iron is much more fusible than when pune; hence it can be fused and east into any form; and when suffered to cool slowly, it crystallizes in octahedra: it is also much more brittle, and cannot therefore be either flattened under the hammer, or by the laminating rollers.

To obtain the iron more pure, or to free it from the carbon with which it is combined in this state, it must be refined by subjecting it to the operations of melting and forging. By the former, in which the metal is kept in fusion for some time, and constantly kneaded Rept in fusion for some time, and constantly kneaded and stirred, the carbon and oxygen it contains are partly combined, and the produced carbonic acid gas is expelled; the metal at length becomes viscid and still; it is then subjected to the action of a very large hammer, or to the more equal, but less forcible pressure of large rollers, by which the remaining oxide of iron, and other impurities, not consumed by the fusion, are pressed out. The iron is now no longer granular nor crystallized in its texture; it is fibrous, soft, ductile, malleable, and totally infusible. It is termed forged, wrought, or bar iron, and is the metal in a purer state, though far from being absolutely pure. The compounds of iron are the following

1. Oxides; of which there are two, or perhaps three. 1st, The exide, obtained either by digesting an ex-184. The oxine, obtained either by the combustion of iron whe in oxygen, or by adding pure ammonia to solution of green copperas, and drying the precipitate out of contact of air, is of a black colour, becoming white by its union with water, in the hydrate, attractible by the magnet, but more feebly than iron. By a mean of the experiments of several chemists, its composition seems to be,

100 77.82 22.18 Iron, 28.5 Oxygen,

Oxygen, 22.3 22.18 1.0
2d, Deutoxide of Gay Lussac. He forms it by exposing a coil of fine iron wire, placed in an ignited porcelain tube, to a current of steam, as long as any hydrogen comes over. There is no danger, he says, of generating peroxide in this experiment, because iron, once in the state of deutoxide, has no such affinity for oxygen as to enable it to decompose water. It may also, he states, be procured by calcining strongly a mixture of 1 part of iron and 3 parts of the red oxide in a stoneware crucible, to the neck of which a tube is adapted to cut off the contact of air. But this process is less certain than the first, because a portion of peroxide may escape the reaction of the iron. But we may dispense with the trouble of making it, adds Thenard, because it is found abundantly in nature. He refers to this oxide, the crystallized specular iron ore of Elba, Corsica, Dalecarlia, and Sweden. He also classes under this oxide all the magnetic iron ores; and says, that the above-described protoxide does not exist in nature. From the synthesis of this oxide by steam, Gay Lussac has determined its composition to be.

37.5

Oxygen, 37.5 27.28

3d, The red oxide. It may be obtained by igniting the nitrate, or carbonate; by calcining iron in open vessels; or simply by treating the metal with strong vesses; of shippy of treatment the recent with strong nitric acid, then washing and drying the residuum. Coleothar of vitriol, or thorough calcined copperas, may be considered as peroxide of iron. It exists abundantly native in the red iron ores. It seems to be a compound of,

70 = 4 primes. 30 = 3 primes. 100 Oxygen, 43 30 = 3 primes.

2. Chlorides of iron; of which there are two, first examined in detail by Dr. John Davy.

The protochloride may be procured by heating to reduces, in a glass tube with a very small orifice, the residue which is obtained by evaporating to dryness the green muriane of iron. It is a fixed substance, requiring a red heat for its fusion. It has a grayish, variegated colour, a metallic splendour, and a lamellar tex-

The deutochloride may be formed by the combustion of iron wire in chlorine gas, or by gent y heating the green muriate in a glass tube. It is the volatile compound described by Sir il. Davy in his celebrated Bakerian lecture on oxymuriatic acid. It condenses after sublimation, in the form of small brilliant iridescent plates.

3. For the codede of iron, see Iodine.

4. Sulphurets of iton: of which, according to Porrett, there are four, though only two are usually de-

scribed, his protosubjudaret and persulphmet.

5. Carbarets of non. These compounds form steel, and probably cast-iron; though the latter contains also some other ingredients. The latest practical researches on the constitution of these carburets, are those of

6. Salts of iron.

1. Protacetate of iron forms small prismatic crys-

tals, of a green colour, a sweetish stypic taste.

2. Peracetate of iron forms a reddish-brown, uncrystallizable solution, much used by the calico-princers, and prepared by keeping iron turnings, or pieces of old iron, for six months immersed in redistilled

pyrolignous acid.

3. Protarseniate of iron exists native in crystals, and may be formed in a pulverulent state, by pouring arseniate of animonia into sulphate of iron.

4. Perarscniate of iron may be formed by pouring arseniate of ammonia into peracetate of iron; or by boiling nitric acid on the protarseniate. It is inso-

5. Antimoniate of iron is white, becoming yellow insoluble.

6. Borate, pale yellow, insoluble.
7. Benzoate, yellow,
8. Protocarbonate, greenish, soluble
9. Percarbonate, brown, insoluble.
10. Chromate, blackish,
do.

11. Protocitrate, brown crystals, soluble.
12. Protoferroprussiate, white, insoluble.
13. Perferroprussiate, white,

This constitutes the beautiful pigment called Prussian blue.

14. Protogallate, colourless, soluble.
15. Perg allate, purple, insoluble.
16. Protomuriate, green crystals, very soluble.
17. Permuriate, brown, uncrystallizable, very so-

luble.

18. Protonitrate, pale green, soluble.
19. Pernitrate, brown, do.

19. Permitrate, pair green source.

19. Permitrate, prown, do.
20. Protozalate, green prisms, do.
21. Percvalate, yellow, scarcely soluble.
22. Protophosphate, blue, insoluble.
23. Perphosphate, blue, insoluble.
24. Protosuccinate, brown crystals, soluble.
25. Persuccinate, brownish red, insoluble.
26. Protosulphate, green vitrol, or copperas. It is generally formed by exposing native pyrites to air and moisture, when the sulphur and iron both absorb oxygen, and form the salt.
27. Persulphate. Of this salt there seems to be four or more varieties, having a ferreous base, which consists, by Porrett, of 4 primes iron + 3 oxygen = 10 in weight, from which their constitution may be learned. learned.

The tartrate and pertartrate of iron may also be formed; or by digesting cream of tartar with water or iron filings, a triple salt may be obtained, formerly called tartarized tincture of Mars.

These salts have the following general characters:—

1. Most of them are soluble in water; those with the protoxide for a base are generally crystallizable; these with the peroxide are generally rot; the former are insoluble, the latter soluble in alkohol.

2. Ferroprussiate of potassa throws down a blue precipitate, or one becoming blue in the air.

3. Infusion of galls gives a dark purple precipitate,

or one becoming so in the air.

4. Hydrosulphuret of potassa or ammonia gives a black precipitate; but sulphuretted hydrogen merely deprives the solutions of iron of their yellow-brown

5. Phosphate of soda gives a whitish precipitate.

6. Benzoate of ammonia, yellow

Successate of ammonia, flesh-coloured with the The general medicinal virtues of iron,

several preparations of it, are to constringe the fibres, I the limb, trembles and palpitates a long time after; the to quicken the circulation, to promote the different secretions in the remoter parts, and at the same time to repress inordinate discharges into the intestinal tube. By the use of chalybeates, the pulse is very sensibly raised, the colour of the face, though before pule, changes to a florid red; the alvine, urinary, and cuticular excretions, are increased.

When given improperly, or to excess, iron produces headache, anxiety, heats the body, and often causes harmorrhages, or even vomiting, pains in the stomach,

spasms, and pains of the bowels.

Iron is given in most cases of debility and relaxaton; in passive hemorrhages; in dyspepsia, hysteria, and chlorosis; in most of the cachexia; and it has lately been recommended as a specific in cancer. Where either a preternatural discharge, or suppression of natural secretions, proceeds from a languor, or sluggishness of the fluids, and weathers of the solids, this metal, by increasing the motion of the former and the strength of the latter, will suppress the flux, or remove the suppression; but where the circulation is already too quick, the solids too tense and rigid, where there is any stricture, or spasmodic contraction of the vessels, iron, and all the preparations of it, will aggravate both diseases. Iron probably has no action on the body when taken into the stomach, unless it be oxidized. But during its oxidizement, hydrogen gas is Oxidized. But during its oxidizement, nydrogen gas is evolved, and accordingly we find that feetid cauctations and black feeces are considered as proofs of the medicine having taken effect. It can only be exhibited internally in the state of filings, which may be given in doses from five to twenty grains. Iron wire is to be preferred for pharmaceutical preparations, both because it is the most convenient form, and because it is the purest iron.

The medicinal preparations of iron now in use

Subcarbonas ferri. See Ferri subcarbonas.

- Subcarbonas ferri. See Ferri sulphas.
   Sulphas ferri. See Ferri sulphas.
   Ferrum tartarizatuum. See Ferri alkalini liquor.
   Liquor ferri alkalini. See Ferri alkalini liquor.
   Tincinca accitatis ferri. See Tinctura ferri
- 6. Tinctura muriatis ferri. See Tinctura ferri mu-
- riatis.
  7. Tinctura ferri ammoniati. See Tinctura ferri

- Onact.
  Vinum ferri. See Vinum ferri.
  Ferrum ammoniatum. See Ferrum ammonia-9. Ferrum ammoniatum. tun
- 10. Oxidum ferri rubrum. See Oxidum ferri ru-
- See Oxidum ferri ni-11. Oxidum ferri nigrum.

IRON-FLINT. This occurs in veins of ironstone and in trap-rocks, near Bristol, and in many parts of

RRITABILITY. (Irritabilitas; from irrito, to provoke.) Vis insita of Haller. Vis vitalis of Goerter. Oscillation of Boerhave. Tonic power of Stahl. Muscular power of Bell. Inherent power of Culten. The contractility of muscular fibres, or a property pe-cultar to muscles, by which they contract upon the application of certain stundt, without a consciousness of action. This power may be seen in the tremulous contraction of muscles when lacerated, or when encontraction of misseles when facetrated, or when entirely separated from the body in operations. Even when the body is dead to all appearance, and the nervous power is gone, this contractile power remains till the organization yields, and begins to be dissolved. It is by this inherent power that a cut muscle contracts and leaves again, that a cut artery shrinks and tracts, and leaves a gap; that a cut artery shrinks and grows stiff after death. This irritability of muscles is grows still state treath. In mindowy or massers so far independent of nerves, and so little connected with feeling, which is the province of the nerves, that, upon stimulating any muscle by touching it with caustic, of irritating it with a sharp point, or driving the tic, of irritating it with a sharp point, or driving the electric spark through it, or exciting with the metallic sondectors, as those of silver, or sinc, the muscle instantly contracts, although the nerve of that muscle be tied; although the nerve be cut so as to separate the muscle entirely from all connexion with the system; although the muscle be separated from the body; at the creature upon which the experiment is performed may have lost all sense of feeling, and have been long apparently dead. Thus a muscle, cut from the intestines, is by any accident effused into the cut-

heart, separated from the body, contracts when irri-tated; the bowels, when torn from the body, continue their peristaltic motion, so as to roll upon the table, ceasing to answer to strond only when they become stiff and cold; and too often, in the human body, the vis insia loses the exciling power of the nerves, and then palsy ensues; or, losing all governance of the nerves, the vis insita, acting without the regulating power, falls into partial or general convidsions. Even in vegetables, as in the sensitive plant, this contractile power lives. Thence comes the distinction between the irritability of muscles and the sensibility of nerves: the irritability of muscles and the sensimity of nerves; for the *cretability* of muscles survives the animals, as when it is active after death; survives the life of the part, or the feelings of the whole system, as in uni-versal paley, where the vital motions continue entire and perfect, and where the muscles, though no obe-dient to the will, are subject to irregular and violent actions; and it survives the connexion with the rest of the system, as when animals, very tenacions of life, are cut into parts: but sensibility, the property of the nerves, gives the various modifications of sense, as vinerves, gives the various modifications of seines, as vision, hearing, and the rest; gives also the general sense of pleasure or pain, and makes the system, according to its various conditions, feel vigorous and healthy, or weary and low. And thus the eye feels, and the skin feels: but their appointed stimuli produce no emotions in these parts; they are sensible, but not irritable. The heart, the intestines, the urinary blader, and all the muscles of voluntary motion, answer to simuli with a quick and forcible contraction; and yet they hardly feel the stimuli by which these contractions are produced, or, at least, they do not convey that feeling to the brain. There is no consciousness of present stimulus in those parts which are called into action by the impulse of the nerves, and at the command of the will: so that muscular parts have all the irrnability of the system, with but little feeling, and that little owing to the nerves which enter into their substance; while nerves have all the sensibility of the system, but no motion.

The discovery of this singular property belongs to our countryman Glisson; but Baron Haller must be considered as the first who clearly pointed out its existence, and proved it to be the cause of muscular motion.

The laws of irritability, according to Dr. Crichton, are, 1. After every action in an irritable part, a state of rest, or cessation from motion, must take place before the irritable part can be again incited to action. If, by an act of voltion, we throw any of our muscles into action, that action can only be continued for a certain space of time; the muscle becomes relaxed, notwithstanding all our endeavours to the contrary, and remains a certain time in that relaxed state, before it can be again thrown into action. 2. Each irritable part has a certain portion or quantity of the principle of irritability which is natural to it, part of which it loses during action, or from the application of stimuli. 3. By a process wholly unknown to us, it regains this lost quantity, during its repose, or state of rest. In order to express the different quantities of irritability order to express the different quantities of irritability in any part, we say that it is either more or less redundant, or more or less defective. It becomes redundant in a part when the stimuli which are calculated to act on that part are withdrawn, or withheld for a certain length of time, because then no action can take place: while, on the other hand, the application of stimuli causes it to be exhausted, or to be deficient, not only by exciting action, but by some secret influence the nature of which has not yet been determined. not only by exciting action, but by some secret mini-ence, the nature of which has not yet been detected; for it is a circumstance extremely deserving of atten-tion, that an irritable part, or body, may be suddenly deprived of its irritability by powerful stimuli, and yet no apparent muscular or vascular action takes place at the time. A certain quantity of spirits, taken at once into the stomach, kills almost as instantaneously as lightning does: the same thing may be observed of

vity of the peritonæum, it excites too great action of the vessels of that part, and induces inflammation. The urine does not irritate the tender fabric of the kid-The trine does not irritate the tender approximately and the preserve their healthy action; but if it be effused into the cellular membrane, it brings on such a violent action of the vessels of these parts, as to produce gangrene. Such stimuli are called habitual stimuli of parts. 5. Each irritable part differs from the rest in regard to the quantity of irritability which it possesse This law explains to us the reason of the great di-versity which we observe in the action of various irriversity which we observe in the action of various irri-table parts; thus, the muscles of voluntary motion can remain a long time in a state of action, and if it be continued as long as possible, another considerable portion of time is required before they regain the irri-tability they lost; but the heart and arreries have a more short and sudden action, and their state of rest is equally so. The circular muscles of the intestines is equally so. The circular imiscles of the imessines have also a quick action and short rest. The urinary bladder does not fully regain the irritability it loses during its contraction for a considerable space of time; during its contraction for a considerance space of time; the vessels which separate and throw out the menstrual discharge, act, in general, for three or four days, and do not regain the irritability they lose for a lunar month.

6. All stimuli produce action in proportion to their irritating powers. As a person approaches his hand to the fire, the action of all the vessels in the skin is increased, and it glows with heat; if the hand be approached still nearer, the action is increased to such an unusual degree as to occasion redness and pain; and if it be continued too long, real inflammapain; and if it be continued too long, real inflamma-tion takes place; but if this heat be continued, the part at last loses its irritability, and a sphacelus or gan-grene ensues. 7. The action of every stimulus is in an inverse ratio to the frequency of its application. A small quantity of spirits taken into the stomach, in-creases the action of its muscular coat, and also of its various vessels, so that digestion is thereby facilitated. If the same quantity, however, be taken frequently, it loses its effect. In order to produce the same effect as at first, a larger quantity is necessary; and hence the origin of dram-drinking. 8. The more the irritability of a part is accumulated, the more that part is disposed to be acted upon. It is on this account that the activity of all animals, while in perfect health, is much livelier in the morning than at any other part of the day; for, during the night, the irritability of the whole frame, and especially that of the muscless destined for labour, viz. the muscles for voluntary action, is reaccumulated. The same law explains why digestion goes on more rapidly the first hour after food is swal-lowed than at any other time; and it also accounts for the great danger that accures to a familished person upon first taking in food. 9. If the stimuli which keep up the action of any irritable body be withdrawn for too great a length of time, that processon which the formation of the principle depends is gradually dimi-nished, and at last entirely destroyed. When the irritability of the system is too quickly exhausted by heat, as is the case in certain warm climates, the application of cold invigorates the frame, because cold is a mere diminution of the overplus of that stimulus which was causing the rapid consumption of the principle. Under such or similar circumstances, therefore, cold is a tonic remedy; but it, in a climate naturally cold, a person were to go into a cold bath, and not soon return into were to go into a cont obtain, and not soon retain into a warmer atmosphere, it would desitor life just in the same manner as many poor people who have no com-fortable dwellings are often destroyed, from being too long exposed to the cold in winter. Upon the first application of cold the irritability is accumulated, and the vascular system therefore is exposed to great action; but, after a certain time, all action is so much diminished, that the process, whatever it be, on which the formation of the irritable principle depends, is entirely lost. For further information on this interesting Bubject, see Dr. Crichton on Mental Derangement. IRRITATION. Irritatio. The action produced

IRRITATION. Intrinuo. by any stimulus. ISATIS. (Lgarge of Dioscorides, and Isatis of Pliny, the derivation of which is unknown.) The name of a genus of plants in the Linnacan system. Class, Tetradynamica, Onder, Sideguasa. Isatis insections. Glustian. The systematic name of the plant used for dying called wood. It is said to estationary.

be adstringent.

I'sca. A sort of fungous excrescence of the oak, or of the hazel, &c. The ancients used it as the

of of the frace,  $\alpha c$ . The ancients used it as the moderns used moxa. ISCILE MON. (From  $\alpha \chi \omega$ , to restrain, and  $\alpha \mu a$ , blood.) A name for any moditine which restrains or stops bleeding.

ISCHÆMUM.

ISCHI MUM. A species of Andropogon.
I'SCHIAS. (Ισχιας; from ισχιον, the hip.) A
rheumatic affection of the hip-joint. See Rheuma-

ISCHIATOCE'LE. (From ισχιον, the hip, and κηλη, a rupture.) Ischiocele. through the sciatic ligaments.

ISCHIO-CAVERNOSUS. See Erector penis.
ISCHIOCE'LE. See Ischitatocele.
ISCHIUM. (From 10715), the loin: so named because it is near the loin.) A bone of the pelvis of the feetus, and a part of the os innominatum of the adult.

ISCHNOPHO'NIA.

See Moonmatum os.

ISCHNOPHO'NIA. (From ισχνος, siender, and φανη, the voice.)

1. A shrillness of the voice.

2. A hesitation of speech, or a stammering.

ISCHNOR'TICA. (From ισχουρια, a suppression of the urine.) Medicines which relieve a suppression of the urine

ISCHURIA. (From ισχω, to restrain, and ουρον, the urine.) A suppression of urine. A genus of disease in the class Locales, and order Epischeses, of There are four species of ischuria:

1. Ischuria renulis, coming after a disease of the kidneys, with a troublesome sense of weight or pain in that part.

2. Ischuria urcterica, after a disease of the kidneys, with a sense of pain or uneasiness in the course of the prefers.

3. Ischuria vesicalis, marked by a frequent desire to make water, with a swelling of the hypogastrium, and pain at the neck of the bladder.

4. Ischuria urethralis, marked by a frequent desire to make water, with a swelling of the hypogastrium,

and pain of some part of the urethra.

When there is a frequent desire of making water, attended with much difficulty in voiding it, the complaint is called a dysury, or strangury; and when there is a total suppression of urine, it is known by the name an ischury. Both ischuria and dysuria are distinof an ischury. Both secturia and dysuria are distinguished into acute, when arising in consequence of inflammation, and chronic, when proceeding from any other cause, such as calculus, &c.

The causes which give rise to these diseases, are an inflammation of the urethra, occasioned either by

venereal sores or by a use of acrid injections, tumour or ulcer of the prostate gland, inflammation of the bladder or kidneys, considerable enlargements of the hæmorrhoidal veins, a lodgment of indurated fæces in the rectum, spasm at the neck of the bladder, the absorption of cantharides applied externally, or taken internally, and excess in drinking either spirituous or vinous liquors; but particles of gravel steking at the neck of the bladder, or lodging in the urethra, and thereby producing irritation, prove the most frequent cause. Gouty matter falling on the neck of the bladder, will sometimes occasion these complaints.

ary, with sometimes occasion these companies.

In dysury there is a frequent inclination to make water, attended with a smarting pain, heat, and difficulty in voiding it, together with a sense of fulness in the region of the bladder. The symptoms often vary, the region of the bladder. The symptoms often vary, however, according to the cause which has given rise to it. If it proceeds from a calculus in the kidney, or ureter, besides the affections mentioned, it will be accompanied with nausea, vointing, and acute pains in the loins and regions of the ureter and kidney of the side affected. When a stone in the bladder, or gravel in the urethra, is the cause, an acute pain will be felt at the end of the penis, particularly on voiding the last drops of urine, and the stream of water will either be divided into two, or be discharged in a twisted manner, not unlike a cork-screw. If a scirrhus of the prostate gland has occasioned the suppression or difficulty of urine, a hard indolent tumour, unattended with any acute pain, may readily be felt in the peringum, or by untroducing the finger in ano.

Dysury is seldom attended with much danger, unless, by neglect, it should terminate in a total obstruction. Ischury may always be regarded as a dangerous complaint, when it continues for any length of time, from the great distention and often consequent inflammation.

the great distention and often consequent inflammation

which ensue. In those cases where neither a bougle ( nor a catheter can be introduced, the event in all probability, will be fatal, as few patients will submit to the only other means of drawing off the urine before a considerable degree of inflammation and tendency to gangrene have taken place.

ISERINE. (So called from the river lser, near the origin of which it is found.) Aniron black coloured ore. ISINGLASS. See Ichthywoodla. ISO CHRONOS. (From 1005, equal, and 200705, time.) Preserving an equal distance of time between the beats; applied to the pulse.

ISO CHRONOS. nor a catheter can be introduced, the event in all pro

Iso craves. (From ισος, equal, and κεραντεμι, to ix.) Wine mixed with an equal quantity of water. ISO DROMUS. (From ισος, equal, and έρομος, a

course.) The same as Isochronos.

Isocy'rum. (From 1995, equal, and \$\pi\theta\_0\eta\$, ite: so named from its flame-coloured flower.) The \$Aqui-

legia culgaris.
ISO TONUS. (From 1005, equal, and 70005, extension.) Applied to fevers which are of equal strength during the whole of the paroxysm.

I'SSUE. Fonticulus. An artificial older made by cutting a portion of the skin, and burying a pea or some other substance in it, so as to produce a discharge f purulent matter. I'STHMION. (

ISTHMION. (From  $\iota \sigma \theta \mu \rho \rho$ , a narrow piece of land between two seas.) The fauces narrow passage

between the mouth and gullet.

1strings viewsenii. The ridge surrounding the remains of the foramen ovale, in the right auricle of the human heart.

ITHMOLDER. See Ethmoides.

PINERA RIVM. (From der, a way.) The catheter; also a stall used in cutting for the stone.

1718. From the time of Boerbaave, visceral in-flammations have been generally distinguished by anatomical terms derived from the organ affected, with the Greek term itis, added as a suffix; as cephalitis, &c. Itis is sufficiently significant of its purpose; it is immediately derived from (cuar, which is uself a ramificamediately derived from the action and a ranner attout from too, and imports, not increaly action, "pulling or geing forth," which is the strict and simple meaning of 200, but action in its fullest urgency, "violent or impetious action." When this term then is added to the genitive case of the Greek name of an organ, it means inflammation of that viscus; hence, he patetis, nephritis, gastritis, carditis, mean inflammation of the liver, hidney, stomach, heart — Good.

the Inver, kidney, stomach, heart.— Cond.

Iva preama. See Snadar sursupmedla

IVARY. The task, or tooth of defence, of the maleelephant. It is an intermediate substance between
home and horn. The dust is occasionally horied to
form pelly, instead of isnuclass, for which it is a bad
substitute. In 100 parts there are 24 getatin, 64 phosphate of lime, and 0.1 carbonate of lime.

IVY. See Hedera helix.

Iva. grand. See Glecoma hederacea.

Iv 1. See Indexended to the Ivy, ground. See Glecoma hederacea. Ivy, ground. See Hedera helis.

I'MA. (From (50s, clue.) 1. A name of the Carma gummafera, from its viscous juice.

2. (From Coput. to proceed from.) A preternatural distention of the veius.

IMNE. See Carlina gummifera.

JA'CEA. (Quia prodest hominibus tristitia jacentibus; because it resists sorrow; or from angua, tibus; because it resists sorrow; or from unput, to heal.) The herb pansey, or heart's ease. See Viola

Tricotor.

JACERANTA TINGA. See Acorus calamus.

JACERTHUS. See Hyacinthus.

Jack by the chalge. See Frysimum alliaria.

JACOB B. A. (Named because it was dedicated to St. James, or because it was directed to be gathered about the feast of that saint.) See Senecio I wooba.

about the feast of that saint.) See Seuceio Jacobaa.

JADLE See Nephrisus.

JALAP, See Convolentus julapa.

JALAPA, See Convolentus julapa.

JALAPIUM. (From Chalapa, or Xalapa, in
New Spain, whence it is brought.) See Convolentus

JALAPPA ALBA. White jalap. See Convolvulus

JAMAICA BARK. See Cinchona caribaa.
JAMAICA PEPPER. See Myetus pimenta.
JAMBIICHU SALES. A preparation with sal-ammo-

niac, some aromatic ingredients, &c. so called from Jamblichus, the inventor.

JA NITOR. (From jamaa, a gate.) The pylorus, so called from its being, as it were, the door or entrance

of the intestines.

Japan earth. See Acacia entechu

JAPO'NICA TERRA. (So called from the place it came from). See Jacoba catecha.

JARGON. See Zircan.

JARGON. See Zircon.

JASMINUM. (Jasminum; from jasmen, Arab.;
or from on, a violet, and onen, odour, on account of
the fine odour of the flowers.)

1. The name of a genus of plants in the Linnwan system. Class, Diandrea;

Order, Monogynia.
2. The pharmacopaial name of the jessamine. See
Jasminum officinale.
Jasminum officinale. the jessamine-tree. The flowers of this beautiful plant have a very fragrant smell, and a bitter taste. afford, by distillation, an essential oil, which is much esteemed in Italy to rub paralytic limbs, and in the cure of rheumatic pains.

JASPER. A sub-species of rhomboidal quartz,

A sub-species of rhomboidal quartz,

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according to Jameson, who enumerates five kinds:

according to Jameson, who enumerates five kinds: Egyptian, strined, porcelain, common, agate jusquer. LATROPHA. (Moss probably from 60/100, a physiciane). The name of a genus of plants in the Line nearm system. Class, Monucon; Orden, Monadelphon. JATROPHA CTRAS. The systemetic name of a plant, the seeds of which resemble the castor-oil seeds. Riespectations of the seeds of which resemble the castor-oil seeds. Riespectations of the seeds of which resemble the castor-oil seeds.

conns major; Risanodes; Pineus purgoas; Pinhones indre; Fabr culturtica; Nuc cathartica; Ameri-casa; Nuc burbadensis. The seed or nut so called in casa: Nur barbadensis. The seed or fill so called in the pharmacopeias is obtoing and black, the produce of the Jatrophu—folies cordates angulatis of fainneus. It allows a quantity of oil, which is given, in many places, as the castor-oil is in this country, to which it is very nearly allied. The seeds of the Jatropha multi-fido are of an oval and triangular shape, of a pale brown colour, are called purging-nuts, and give out a similar

oil.

Jetropha elastica. The juice of this plant affords an clastic gum. See Caoutchouc.

Jetropha Manhort. This is the plant which affords the Cassada root. Cassada; Cacavi; Cassava; Cassava. Para de Madagasca; Recense minor: Mannot; Vucco: Manhort para de para de la principal de la p ccc. Into a Wholesome soup, and what remains after expressing the juice, is formed into cakes or meal, the principal tood of the inhabitants. This plant, which is a native of three quarters of the world, is one of the most advantageous gifts of Providence, entering into the composition of immunerable preparations of an accommissily nature.

Cassada toots yield a great quantity of starch, called tapioca, exported in little lumps by the Brazilians, and now well known to us as a diet for sick and weakly

JEEB, John, was born at London in 1736. He was Cambridge, entered into orders, and often studying at Cambridge, entered into orders, and obtained a fiving in Norfolk in 1764. The year following, he published in conjunction with two friends, a selection from New

ton's Principla, with notes, which was highly esteemed. He soon afterward returned to Cambridge, teemed. He some anterwant returner to a reform in church and state, as well as in the discipline of that university. At length, in 1775, he resigned all his offices in the church, the established doctrines of which he did not appropriate the control of the church, the stablished more prefring into he did not approve; and determined upon entering into the Medical profession—He soon qualified himself for this, obtained a diploma from St. Andrews, and was admitted a licentiate of the London College of Physiadmitted a hermatic of the London Conege of Paysicians; and in the same year, 1778, he was elected a fellow of the Royal Society. In 1782 he published "Select Cases of Paralysis of the Lower Extremities;" which tend to support the practice of Pour, of applying causties near the spine. To this work is added an interesting description of a very rare disease, catalepsy. The warmth of his political sentiments, however, obstructed his professional career; and the various fa-tigues and anxieties to which he exposed himself, in order to further his benevolent designs, exhausted his constitution so much, that he sunk a premature victim

JECORA'RIA. (From jecur, the liver: so named from its supposed efficacy in diseases of the liver.) 1. The name of a plant. See Marchantia polymorpha.

2. A name given to a vein in the right hand, because it was usually opened in diseases of the liver

JE'CUR. (Jecur, oris., or jecinoris, neut.) . The liver. See Liver.

JECUR UTERINUM. The placenta is, by some, thus called, from the supposed similitude of its office with

JEJU'NUM. (From jejunus, empty.) Jejunum in-testinum. The second portion of the small intestines, testinum. See Intes-

so called because it is mostly found empty. See Intes tine

JELLY. See Gelatin. JENITE. See Lievrite.

Jerusalem cowslips. See Pulmonaria officinalis. Jerusalem oak. See Chenopodium botrys.

Jerusalem sage. See Pulmonaria afficinalis.
JESSAMINE. See Jasminum.
JESUITA'NUS CORTEX. (From jesuita, a jesuit.) A
name of the Peruvian bark, because it was first introduced into Europe by Father de Lugo, a jesuit. See Cinchona

JESUI'TICUS CORTEX. See Cinchona. Jesuit's bark. See Cinchona.

Jesuit's bark.

Jesuit's bark. See Cinchona.

JET. (So called from the river Gaza in Lesser
Asia, from whence it came.) A black bitummous
coat, land and compact, found in great abundance in
various parts of France, Sweden, Germany, and Ireland.
It is brilliant and vitreous in its fracture, and capable of taking a good polish by friction; it attracts light sub-stances, and appears to be electric like amber; hence it has been called black amber. It has no smell, but when heated, it acquires one like bitumen judaicum.

Jow's Pitch. See Bitumen judaicum.
JOHN'S WORT. See Hypericum.
Jounted Leaf. See Articulatus.
[\*\*JONES, John, M. D. The family of Dr. Jones
was of Welsh extraction; and of the religious society. of Friends. He was born in the town of Jamaica, (Long Island,) in Queen's county, New-York, in the year 1729; and received his education partly from his excellent parents, but chiefly at a private school in the city of New York. He was early led, both by the advice of his father, and his own inclination, to the study of medicine.

Dr. Jones early indicated an attachment for that profession which, at a subsequent period, he cultivated with so much ardour, by his fondness for anatomical researches; and though, as it may be readily supposed, these could only be of the comparative kind, yet it is a remarkable fact, that this love for pursuits of the same nature has been noticed in the youth of some of the most distinguished anatomists that ever lived.

After completing his studies in this country, Dr. Jones visited Europe, in order to improve himself still

farther in his protession.

Upon the return of Dr. Jones to this country, he settled in New-York, where his abilities soon procured him extensive practice. To the profession of surgery, in particular, he devoted much attention: he was the first who performed the operation of lithotomy in that city, and succeeded so well in several cases that offered shortly after his return, that his fame as an operator

became generally known throughout the middle and

eastern states of America.

Upon the institution of a medical school in the college of New-York, Dr. Jones was appointed professor of Surgery, upon which branch he gave several courses of lectures, and thereby diffused a taste for it among the students, and made known the improved methods of practice lately adopted in Europe, with which most of the practitioners in this country were entirely unacquainted.

For a considerable part of the previous life of Dr. Jones, he had been afflicted by the asthma, and for a long time had struggled to overcome that painful disease; but the exertions both of his own skill, and of the rest of his medical brethren in most parts of the the rest of his meantal member has parts on the continent, had hitherto proved ineffectual even to his relief. He determined, therefore, to take a voyage to Europe, and accordingly sailed for London. Here, in a thick smoke and an impure atmosphere, where so many asthmatics have found such remarkable benefit he also experienced a considerable alleviation of his complaint; and probably the permanent alteration in his health which he afterward enjoyed, may be in some measure attributed to the effects of his residence in London. He also employed himself during his contumance in the metropolis, in collecting subscriptions for an hospital in New-York, which he had been chiefly

instrumental in establishing.

In London he again had an opportunity of seeing his friend, Mr. Pott, at the head of his profession, and of renewing that intercourse which had been previously commenced between them. He had now been for some years left to the guidance of his own judgment; but unlike many who suppose all knowledge to become stationary at the time of their leaving college, he was still willing to be taught by those who had formerly been his instructers, and who, from the great opportunities they enjoyed, would be enabled to afford him nuch information. Eager for the acquisition of knowledge, whenever and wherever it could be obtained, he again attended the icctures of his old master, Dr. Hunter, and those of his friend, Mr. Pott, who lost no opportunity of showing the consistency between his profession and proofs of respect: during his short stay there, he paid Dr. Jones the most particular attention, and presented him with a complete copy of his lectures, His kindness, just before his departure from London. however, did not end here: for in the frequent appli-cations which he received for advice from all parts of this country, in difficult and important cases, he never failed to recommend his old pupil, as capable of affording any relief to be derived from surgical assistance. In consequence of this, his attendance was frequently desired in the different states; and while he showed, by his skill and success, that the opinion which had been formed of him was just, his tame became thereby diffused throughout the continent of America.

The following year he returned to his native country, the political situation of which, at that time, called loudly for the exertions of all her citizens. He again resumed his lectures, and delivered several courses, and in the autumn of the next year, 1775, published his "Plain Remarks upon Wounds and Fractures," which he inscribed to his old preceptor, Dr. Cadwallader, in a neat dedication. A work of this kind which would give the young practitioner clear notions of the improved mode of treating disease, without embarrassing him with refined speculations or useless disquisitions, was much wanted. He attempted no systematic arrangements, but simply treated of those subjects to which the attention of the surgeons of the army and navy would be most continually duceted. No present could have been more acceptable to his country, and no gift more opportunely made; for in the situation of American affairs, many persons were chosen to act as surgeons, who, from their few opportunities, and their ignorance of the improvements that had lately been brought in practice, were but ill qualified for the office. His well-meant endeavours were not lost; for the improvements which he had made known, though new to most practitioners and surgeons, were readily adopted most practitioners and surgeons, were readily adopted when recommended by such authority. This was the only work ever published by Dr. Jones; it might have, indeed, been readily supposed, that more would have nadea, over ready supposes, that not would have come from his pen, considering how well qualified he was to make observations, and impart to others some portion of that knowledge of which he busself

volution in that branch of the heating art, which is now so apparent, by laying aside the former complicated so apparent, by laying assue the former compinented modes of practice, and substituting those which are plain and simple. The operation to which he princi-pally confined himself for many of the last years of his life, was lithotomy; and his success in this difficult and important object of a surgeon's duty, was great Even in the morth before his death, in a most indeed. capital and nice operation, there did not appear to be capital and luce operation, there did not appear to be any diminution of that dexterity and steadiness of hand, for which he had always been remarkable, and of which those not half his age might have boasted.

Connected with this part of his professional character, was his merit as an accoucheur; and in this difficult and important branch his success was great.

The merit of Dr. Jones as a physician was likewise insiderable. Though educated in the school of Boerhaave, he never professed an implicit faith in that, or any other system. He was guided by just principles, and he varied his practice like every judicious phyand he varied his practice like every judicious physician, with the varying circumstances of the case. The success of his practice was the best proof of the truth of his principles, and of the judgment which directed their application."—Thach. Mod. Biog. A.]
["JONES, Walter, M. D., one of the most eminent physicians of our country, was born in Virginia, and

received his medical education at the University of Edinburgh, where he was graduated about the year While at this institution he became a favourite of the school, and enjoyed the particular friendship and esteem of Cullen, and the other professors of that

time.

On his return to his native country, he settled in Northumberland country. Vinginia, where he acquired an extensive practice, and sustained throughout life the highest standing both as a scholar and physician. 'He was,' (says a distinguished gentleman, who for some time enjoyed his acquaintance,' for the variety and extent of his learning, theoriginality and strength of his hind, the sagacity of his observations, and the captivating powers of his conversation, one of the most extraordinary men I have ever known. He was an accurate observer of usture and of human character; and curate observer of nature and of human character; and seemed to possess intuitively the favoity of discerning the hidden cause of disease, and of applying, with a propriate remedies. For a few years he was returned a member of the national legislature; but he spent the most of his life in the practice of that profession or which he was a distinguished ornament."—Thack. Med. ...

JUDGMENT. The judgment is the most important

JUDGMENT. The judgment is the most important of the intellectual faculties. We acquire all our knowledge by this faculty; without it our life would be merely vegetative; we would have no idea either of the existence of other bodies, or of our own; for these two sorts of notions, like our knowledge, are the consequence of our faculty of judging.

To judge is to establish a relation between two ideas, or between two goings of ideas. When I judge of the goodness of a work, I feel that the idea of goodness belongs to the book which I have read; I establish a relation, I form to myself an idea of a different kind from that which arises from sensibility and memory. A continuation of indements linked together form an

A continuation of judgments linked together form an

inference, or process of reasoning.

We see how important it is to judge justly, that is, to establish only those relations which really exist. If I establish only those relations which reany exist. If I judge that a possionis substance is sabiliary, I am in danger of losing my life; my take judgment is therefore hartful. It is the same with all those of the same kind. Almost all the misfortunes which oppress man in a moral sense, arise from errors of judgment; crines, in the property of the inducent vices, bad conduct, spring from false judgment.

The science of logic has for its end the teaching of

just reasoning: but pure judgment, or good sense, and false judgment, or wrong headedness, depend on organiremain as nature has made us. There are men en-

possessed so great a share. Such was actually his fintention; and he had prepared another work for the press, but was prevented by the most base treachery from giving it to the world.

He died 1794, in the 63d year of his age. As a Surgeon, Dr. Jones stood at the head of the profession in this country; and he may be deservedly considered as the chief instrument in effecting the remarkable revolution in that branch of the heating art, which is moy considered as the chief instrument in effecting the remarkable revolution in that branch of the heating art, which is moy considered, by laying aside the former complicated.

come more perfect with age.—Magendie's Physiology
JUDIEATO RIUS. (From judico, to discern.) An obsolete term applied to a synocha of four days, because

solete term applied to a synocial of four days, because its termination may certainly be foreseen.

JUGA'LE OS. (Jugales; from jugam, a yoke: from its resemblance, or because it is articulated, to the bone of the upper pay, like a yoke.) Os malas; OS zugomaticum. The ossa malarum are the prominent quare benes which form the upper part of the checks. They are situated close under the eyes, and make part of the orbit. Each of these bones have three surfaces to be considered. One of these is exterior and somewhat convex. The second is superior and concave, serving to form the lower and lateral parts of the orbit. The third, which is posterior, is very unequal and con-cave, for the lodgment of the lower part of the temporal nursele. Each of these bones may be described as naving four processes formed by their four angles. Two of these may be called orbitar processes. The superior one is connected with the orbitar process of the os-frantis; and the influence may add the reserve. frontis; and the inferior one with the malar process of the maxillary bone. The third is connected with the temporal process of the sphenoid bone; and the fourth forms a bony arch, by its connexion with the zygomatic process of the temporal bone. In infants, these bones

process of the camporal some. In Imans, these concess of the camporal some in Imans, these concess are entire and completely essified.

JU GLANS. (Quasa Jovis glans, the royal fruit, from his magnitude.) I. The name of a genus of plants in the Linnean system. Class, Monacia; Order, Poly-

The walnut-tree.

2. The pharmacoperial name of the walnut. See

Juglans regia

Juglans regia. The systematic name of the wal-nut-tree. The tree which bears the walnut is the Juglans—folcoles ovalibus glabris subscrenus subs-quelibus of Lamans. It is a native of Persia, but cultivated in this country. The unripe fruit which has in astringent bitterish task, and has been long employed as a pickle, is the part which was directed for medical use by the London College, on account of its adichamitic virtues. An extract of the green fruit is the most convenient agent which as it may be keet for is the most convenient preparation, as it may be kept for a sufficient length of time, and made agreeable to the sto-

a sufficient length of time, and made agreeable to the sto-mach of the patient, by mixing it with cimianon water. The putamen, or geen rind of the walnut, has been celebrated as a powerful and venereal remedy, for more than accountry and a half; and Petrus Borellus has given directions for a decoction not unlike that which is commonly called the Lisbon diet-drink, in which the walnut, with its green bank, forms a principal ingredient. Ramazzini, whose works were published early in the present century, has likewise informed us, that in his time, the green rind of the walnut was esteemed a good anti-vinereal remedy in Eng-This part of the walnut has been much used in land. This part of the walmit has been much used in decoctions, during the last fifty years, both in the green and dried state; it has been greatly recommended by writers on the continent, as well as by those of our own country; and is, without doubt, a very useful addi-tion to the decoction of the woods. Pearson has employed it during many years, in those cases where pains in the limbs and indurations of the membranes have remained, after the venereal disease has been cured by

mercury; and he informs us that he has seldom directed it without manifest advantage.

Brambilla and Girtainer also contend for the antivenereal virtues of the green bark of the walnut; but the result of Pearson's experience will not permit him to add his testimony to theirs. I have given it, says he, in as large doses as the stomach could retain, and for as long a time as the strength of the patients, and the nature of their complaints would pentium; but I have uniformly observed, that if they who take it be not previously cured of luss renezed, the peculiar symptoms will appear, and proceed in their usual course, in defiance of the powers of this medicine. The Decartous Lussianicum may be given with great ad vantage in many of those cutaneous diseases, which are attended with aridity of the skin; and I have had | Indies; but that which comes from India is less escore apportunities of observing that when the number of the come apportunities of observing that when the number of the come apportunities of observing that when the number of the comes approximately the comes are not the comes and the comes are not the comes are no some opportunities of observing that when the putamen of the walnut has been omitted, either intentionally or by accident, the same good effects have not followed the taking of the decoction, as when it contained this ingredient.

gredient. See Juglans.
JUGULAR. (Jugularis; from jugulam, the throat.)

Belonging to the throat.

Belonging to the throat.

JUGULAR VEENS. The veins so called run from the head down the sides of the neck, and are divided, from their situation, into external and internal. The external, or superpicual jugular nein, receives the blood from the frontal, anguiar, temporal, auricular, sublingual or ranine, and occipital veins. The internal, or deep-scated jugular nein, receives the blood from the lateral sinuses of the dura mater, the laryngeal and phaseman leading. Roth ingulars units and from with the ryngeal veins. Both jugulars unite, and form, with the ryngeal venus. Bour juguals since, and other, an en-subclavian vein, the superior vena cava, which termi-nates in the superior part of the right auxicle of the heart. JU GULUM. (From juguan, a voke; because the yoke is fastened to this part.) The throat or anterior

part of the neck.

JUJUBA. (An Arabian word.) Jujube. See Rham-

aus zizyphus.

JUJUBE. See Rhamnus zizyphus.
JULY-FLOWER. See Dianthus Caryophyllus.
JUNCKER, GOTTLOB JOHN, was born in 1660 at
After the momenstudies he gradu-Londorff, in Hesse. After the proper studies be graduated at Halle in 1718; and became atterward a distinguished professor there, as well as physician to the public hospital. His works, which are chiefly compi-lations, have been much esteemed, and are still occa-tionally referred to; especially as giving a compendious view of the doctrines of Stahl, which he espoused and taught. He has given a "Conspectus" of medicine, of surgery, of chemistry, and of several other departments of professional knowledge; also many academical theses on medical, chlrurgical, and philosophical subjects. He

JU'NCUS. (An old Latin word, a jungendo, say

JUNCUS. (An old Latin word, a jungendo, say the etymologists, from the use of the plants which bear this name in joining or binding things together.) The name of a genus of plants in the Linnean system. Class, Hexandria; Order, Monagquia.

JUNGUS ODORATUS. See Andropogon schwaanthus.

JUNIPER. See Juniperus communis.

JUNIPERUS. (From juvenis, young, and pario, to bring forth: so called because it produces its young berries while the old ones are ripening.) 1. The name of a genus of plants. Class, Diweiu; Order, Monadelphia.

delphia.

2. The pharmacopæial name of the common juniper.

See Jumperus communis.

JUNIPERUS COMMUNIS. The systematic name of the juniper-tree. Juniperus-folis terms patentibus mu-cronatis, baccis longioribus, of Linneus. Both the tops and berries of this indigenous plant are directed in and berries of this indigenous plant are directed in our planmacopeais, but the latter are usually preterred, and are brought chiefly from Holland and Italy. Of their efficacy as a stomachic, cauminative, diaphoretic, and directic, there are several relations by physicians of great authority; and medical writters have also spoken of the utility of the jumper in nephritic cases, uterine obstructions, scorbuite affections, and some cutaneous diseases. Our planmacoperias direct the essential oil, and a spirituous distillation of the berries, to be kent in the shows. From this tree is also obtained to be kept in the shops. From this tree is also obtained a concrete resin, which has been called sandarach, or gum juniper. It exudes in white tears, more transpa-rent than mastich. It is almost totally soluble in alkohol, with which it forms a white varnish that dries Reduced to powder it is called pounce, which prevents ink from sinking into paper from which the

exterior coating of size has been scraped away.

JUNIPERUS LYCIA. The systematic name of the plant which affords the true frankincense. Olibanum; Thus. Frankincense has received different appella-tions, according to its different appearances; the single tears are called single olibanum, or thus, when two tears are called sinely olibanion, or thus, when two are joined together, thus masculum; and when two are very large, thus femininum; it several adhere to the back, thus corticosum: the time powder which rubs of from the lears, much thuris—and the coarser, manna thuris. Thegum resm, that is so called, is the juice of the Jumperus-folies ternis undique imbricates ovates obtuses, and is brought from Turkoy and the East

It is said to ooze spontaneously from the bark of the tree, appearing in drops, or tears, of a pale yellowish, and sometimes of a reddish colour. Olbanum has a moderately strong and not very agreeable smed, and a bitterish, somewhat pungoat taste: in chewing, it sacks to the teeth, becomes white, and renders the saliva milky. Land on a red-not non, it readily catches flame, and burns with a strong diffusive and not impleasant smell. On trituration with water, the greatest part dissolves into a nilky liquor, which, on standing, deposites a portion of resinous matter. The standing, deposites a portion of resinous matter. gummy and resinous parts are nearly in equal propor-tions; and though rectified spirit dissolves less of the olibanum than water, it extracts nearly all its active matter. In ancient times, olibanum seems to have been in great repute in affections of the head and breast, coughs, hamoptysis, and in various fluxes, both uterine and intestinal; it was also much employed externally Recourse is now seldom had to this medicine, which is superseded by myrch, and other articles of the resinous kind. It is, however, esteemed by many as an adstringent, and though not in general use, is considered as a valuable medicine in fluor albus, and debilities of stomach and intestines: applied externally in the form of plaster, it is said to be corroborant, &c. and with this intention it forms the basis of the emplastrum thuris. JUNIPERUS SABINA. The systematic name of the

JUNIPERUS SABINA. The systematic name of the common or barren savin-tree. Sabina; Savina; Sabina sterilis; Brathu. Juniperus—foliis oppositis erectis decurrentious, oppositionious pyxidatis, of Linneus. Savin is a native of the south of Europe and the Levant; it has long been cultivated in our gardens, and from producing male and female flowers on separate plants, it was formerly distinguished into the barren and berry-bearing savin. The leaves and tops of this and berry-bearing savin. and berry-bearing savin. The leaves and tops of this plant have a moderately strong smell of the disagreeable kind, and a hot, bitterish, acrid taste. They give out great part of their active matter to watery liquors, and the whole to rectified spirit. Distilled with water they yield a large quantity of essential oil. Decoctions of the leaves, freed from the volatile principle by in spis-sation to the consistence of an extract, retain a considerable share of their pungency and warmth along with their bitterness, and have some degree of smell, but not resembling that of the plant itself. On inspisnut not resembling that of the plant itself. On inspis-sating the spirituous tincture, there remains an extract consisting of two distinct substances, of which one is yellow, unctuous, or oily, bitterish, and very pungent; the other black, resinous, less pungent, and sub-astrin-gent. Savin is a powerful and active medicine, and has been long reputed the most efficacious in the materia pedica. For producing a dateming salian to the pursue medica, for producing a determination to the uterus, and thereby proving enumenagogue; it heats and stimulates the whole system very considerably, and is said to promote the fluid secretions. The power which this plant possesses (observes Dr. Woodville) in opening utepaut possesses conserves II. w oodvile; in opening uter-rine obstructions, is considered to be so great, that we are told it has been frequently employed, and with too much success, for purposes the most infamous and unnatural. It seems probable, however, that its effects in this way have been somewhat overrated, as it is found, very frequently, to fail as an emmenagogue, though this, in some measure, may be ascribed to the smallness of the dose in which it has been usually prescribed by physicians; for Dr. Cullen observes, "that savin is a very acrid and heating substance, and I have been often, on account of these qualities, prevented from employing it in the quantity necessary to render it emmenagogue. I must own, however, that it shows a more powerful determination to the uterus than any other plant Have employed; but I have been frequently disappointed in this, and its heating qualities always require a great deal of caution." Dr. Home appears to have had very great success with this medicine, for in five cases of amenorrhoa, which occurred at the Royal Infirmary at Edinburgh, four were cured by the sabina, Infirmary at Edinburgh, four were cured by the sabina, which he gave in powder from a scruple to a drachm twice a-day. He says it is well-suited to the debile, but improper in plethoric habits, and therefore orders repeated bleedings before its exhibitions. Country people give the juice from the leaves and young tops of savin mixed with milk to their children, in order to destroy the worms: it generally operates by stool, and brings them away with it. The leaves cut small, and given to horses, mixed with their corn, destroy the bots, Externally, savin is recommended as an escharotic to JUR

JUPITER. The ancient chemical name of tin, because supposed under the government of that planet. JURIN, JAMES, was, during several years, an active member and Secretary of the Royal Society, and at his death in 1750, President of the College of Physicians. He distinguished himself by a series of seventeen dissertations, printed in the Philosophical Transactions, and afterward as a separate work, in which mathematical science was applied with considerable acuteness to physiological subjects. These papers, however, involved him in several philosophical controversies consulting the property of the Whote, by Keeping up the microscopy, while many retained their prejudices against adopting it. JUSTICLA. (So maned in homour of Mr. Justice, who published the British Gardener's Director.) The name of a genus of plants. Class, Deandria: Order, Juva Norman, and planet in the Philosophical Section of the Whote, by Keeping up the microscopy, while many retained their prejudices against adopting it. JUSTICLA. (So maned in homour of Mr. Justice, who published the British Gardener's Director.) The name of a genus of plants. Class, Deandria: Order, Juva Norman, and planet in homour of plants. Class, Deandria: Order, Juva Norman, and planet in homour of plants. Class, Deandria: Order, Juva Norman, and planet in homour of planets. Class, Deandria: Order, Juva Norman, and planet in homour of planets. Class, Deandria: Order, Juva Norman, and planets and planets and planets. Class planets are provided him norders and planets and planets. Class planets and planets are planets and planets and planets and planets. Class planets are planets and pla

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# LEXICON MEDICUM;

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## MEDICAL DICTIONARY;

CONTAINING AN EXPLANATION OF THE TERMS IN

ANATOMY, BOTANY, CHEMISTRY, MATERIA MEDICA, MIDWIFERY, MINERALOGY, PHARMACY, PHYSIOLOGY, PRACTICE OF PHYSIC, SURGERY,

AND THE VARIOUS BRANCHES OF
NATURAL PHILOSOPHY CONNECTED WITH MEDICINE.
SELECTED, ARRANGED, AND COMPILED FROM THE DEST AUTHORS.



"Nec aranearum sane texus ideo melior, quia ex se fila gignunt, nec noster vilior quia ex alienis libamus ut apes." Just. Lips. Monit. Polit. Lib. i. cap. L

### By ROBERT HOOPER, M.D. F.L.S.

THE FOURTH AMERICAN, FROM THE LAST LONDON EDITION,
WITH ADDITIONS FROM AMERICAN AUTHORS ON BOTANY, CHEMISTRY, MATERIA MEDICA, MINERALOGY, &co

#### By SAMUEL AKERLY, M.D.

FORMERLY PHYSICIAN TO THE NEW-YORK CITY DISPENSARY, RESIDENT PHYSICIAN TO THE CITY HOSPITAL, LATE HOSPITAL SURGEON UNITED STATES' ARMY, PHYSICIAN TO THE NEW-YORK INSTITUTION FOR THE INSTRUCTION OF THE DEAF AND DUMB, &c. &c.

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'Nee aranearum sane texus ideo medior, quia ex so fila gigmunt, nee noster vilior quia ex alienis libamus ut apes.'

'Nee aranearum sane texus ideo medior, quia ex so fila gigmunt, nee noster vilior quia ex alienis libamus ut apes.'

Pry Robert Hooper, M.D. F.L.S. The fourth American, from the last Lendon edition, with additions from American authors or Bolany, Chemistry, Materia Medica, Mineralogy, &c. By Samuel Akeviy, M.D., termetry physician to the New-York City Dispensary, resident physician to the City Hoopital, late hospital surgeon United States' army, physician to the New-York Institution for the Institution of the Death and Dumh, &c. &c.'

of the Dear and Dongress of the United States, entitled "An Act for the encouragement of Learning, by securing the harts, and books, to the authors and propereurs of such copies, during the lines therein mentancel." And also to An Act, supplementary to an Act, entitled an Act for the encouragement of Learning, by securing the copies of books, to the authors and proprietors of such copies, during the times therein mentioned, and extending the pute arts of designing, engraving, and etching historical and other prints.

\*\*FREDERICK I. BETTS, Clerk of the Southern District of New-York\*\*

### A NEW

## MEDICAL DICTIONARY.

KID

KATH. See Acacia catechu.

K ÆMPFER, ENGELBERT, was born in 1651 at Lippe, in Westphalia. He was educated in Sweden, and being eager to travel, accompanied the Swedish ambassador, Fabricius, to Persia, as secretary: on whose departure from Ispalana, after two years, he obtained the appointment of chief surgeon to the Durch East India Company: and was thus enabled to pense. tained the appointment of chief surgeon to the Dutch East India Company; and was thus enabled to penetrate as far as Siam and Japan, and cleared up the geography of these countries, which was very imperfectly known before. On his return to Eurcpe, in 1694, he graduated at Leyden, and settled in his own country; he was afterward appointed physician to his sovereign, and continued engaged in practice, and in composing several works, till his death, in 1716. In his inaugural dissertation, among other subjects relating to medicine, he notices a method of curing colic among the Japanese by puncture with a needle. But his great work, entitled "Amænitates Exotices," is more especially esteemed for its bottanical information, and authentic details, relating to the history and manners of then the details, relating to the history and manners of Persia, &c. His History of Japan, of which there is an English translation in folio, is highly valued for its accuracy and fidelity.

KEMPFE'RIA. (Named after Kæropfer, the

accuracy and fidelity.

KÆMPFFERIA. (Named after Kæmpfer, the
Westphalian naturalist.) The name of a genus of
plants. Class, Monandria; Order, Monogymia.

Kæmpferia galanga. The plant which affords

KEMPFERIA GALANGA.
the greater galangal root.
KEMPFERIA ROTUNDA.

KEMPFERIA ROTUNDA. The systematic name of the plant which affords the officinal zedoary. Zedoa-Kampferia-foliis lanceolatis petiolatis, of Linlong pieces, zedoaria longa, about the thickness of the little finger, two or three inches in length, bent, rough, and angular; or in roundish pieces, zedoaria rotunda, about an inch in diameter, of an ash colour on the outside, and white within. They have an agreeable camphoraceous smell, and a bitterish aromatic taste.

Though formerly much esteemed against rheumatic Inough formerly much esteemed against rheumatic affections, they are at present thought to possess very little medicinal powers, although they had a place in the confectio aromatica of the London Pharmacopeia. KAJEPT OLEWA See Melaleuca.

KAJLI. (An Arabian word.) The vegetable alkali.

See Potassa.

KALL ACETATUM. See Potassa acetas.
KALL ACETATUM. See Potassa carbonas.
KALL AERATUM. See Potassa carbonas.
KALL ARSENICATUM. A preparation of arsenic,
Compused of the vegetable alkali and the acid of

KALI CITRATUM. See Potassæ citras.

AALI CITRATUM. See Potassa citras.
KALI PRAPARATUM. See Potassa subcarbonas.
KALI PURUM. See Potassa fusa.
KALI SURPHIRATUM. See Sulphuretum potassa.
KALI LARTARIZATUM. See Potassa tariras.
KALI VIERIOLATUM. See Potassa sulphas.
KARPHOLITE. A yellow mineral which occurs

KARPHOLITE. A yellow mineral which occurs in thin presmatic concretions.

KEEL See Carina.

Kretel Leaf. See Carinatus.

KEHAL, James, was born in Scotland, 1673. After going through the proper studies abroad, and especially attending to anatomy, he was enabled to lecture on that subject with great reputation in both the Eng Cambridge. During this period he published a Compendium of Anatomy, chiefly from Cowper. In 1703-he settled in practice at Northampton; and three years after sent to the Royal Society an account of the dissection of a man, reputed to have been 130 years of age; which agreed very much with what Harvey found in old Parr. He was well skilled in mathematics, which he applied to the explanation of the laws of the animal economy. In 1708, he published "An Account of Animal Secretion, the Quantity of Blood in the Human Body, and Muscular Motion." To which, in a second edition, he added an Essay on the Force of the Heart. This engaged him in a controversy with Dr. Jurin, which was carried on in the Philosophical Transactions (Dr. Keill being then a member of the Royal Society) till the period of his premature death in 1719, occasioned by a cancer in the mouth, to which he had applied the cautery, but without prelief.

Rany Felici. KEL'RI. See Cheiranthus cheiri. KELP. Incinerated seaweed. KENEANGIA. (From κενος, empty, and αγγειον, vessel.) I. A state of inaction of the blood or other

2. A deficiency of blood in the vessels. KERATE. The third mineral order of Mohs.

KERATTE. The third mineral order of Mohs. KERATO-PHARYNGEUS. (From κρασς, a horn, and φαρυγζ, the pharynx.) A muscle so named from its shape, and insertion in the pharynx. KE RMES. (Chermah, Arabian.) Granum tinetorium; Coccus baphica. Round reddish grains, about the size of peas, found in Spain, Italy, and the south of France, adhering to the branches of the scarlet oak. They are the nidus of a minute red animalcule, called Coccus quercus ilicis. The confectio alkermes, now obsolete, was prepared with these, which possess cor-

roborant and adstringent virtues. KERNES MINERALIS. A preparation of antimony, so termed from its resemblance in colour to the insect of that name. It is now disused in medicine, and gives place to the other preparations of antimony. See

Hydrosalphuretum stibii rubrum.

KERNEL WORT. See Scrophularia nodosa.

KE'RVA. (Kervah, Arabian.) The Ricinus com-

KETCHUP. The prepared liquor of the mush-room, made by sprinkling salt on that vegetable, and collecting the fluid which escapes.

collecting the fluid which escapes.

Krysker's PILLS. A once celebrated mercurial medicine, the method of preparing which was purchased by the French government, and has gince been published by Richard. The hydrargyrus acetatus is considered as an adequate substitute for the more cluborate form of Keyser. Richard concludes his account of Keyser's pills with observing, that he considers it to be, without exception, the most effectual remedy for the veneroral disease hitherto discovered. But further venereal disease hitherto discovered. But in the trials of this remedy do not justify the sanguine accounts of its properties; though it may sometimes succeed when some of the other mercurial preparations have failed.

A name for chilblains. KIBES.

KIDER TERRESTRIS. Barbadoes tar.
KIDNEY. (Ren. nis. m.) An abdominal viscus,

shaped like a kidney-bean, that secretes the urine. There are two kidneys. One is situated in each lumbar reglon, near the first lumbar vertebra, behind the peritonæum. This organ is composed of three substances; a cortical, which is external, and very vascular; a tobulous, which consists of small tubes; and a papillous substance, which is the innermost. The kidneys are generally surrounded with more or less adjuges membrane, and they have also a proper more. kidneys are generally surrounded with more of actions adipose membrane, and they have also a proper membrane, membrana propria, which is closely accreted to the cortical substance. The renal arteries, called also emulgents, proceed from the aorta. The veins evacuate their blood into the ascending cava. The absoremulgents, proceed from the aorta. The veins evacuate their blood into the assending cava. The absorbents accompany the blood-vessels, and terminate in the thoracic duct. The nerves of the kidneys are branches of the eighth pair and great intercostal. The excretory duct of this viscus is called the ureter. At the middle of the kidney, where the blood-vessels enter it, is a large membraneous bag, called the pelvis, which diminishes like a funnel, and forms a long canal, the ureter, that conveys the urine from the kidney to the bladder, which it perforates obliquely.

Kuthev-shaped loaf. See Hentformis.

KIFFEKILL. See Merschaum.

KIKSKUNEMALO. A pure resin, very similar to

KIREKUNEMALO. A pure resin, very similar to copal, but of a more beautiful whiteness and transparency. It is brought from America, where it is said to be used medicinally, in the cure of hysteria, tetanus, &c. It forms the most beautiful of all varnishes.

&c. It forms the most beautiful of all varnishes.

Ki'xi. (Kike, Arabian.) See Ricinus.

Ki'na Kina. See Cinchona.

KINA'TE. Kinas. A compound of the Kinic acid, with a saliniable base.

KINIC ACID. (Acidum kinicum; from kinia, the French name of cinchona, from which it is obtained.)

"A peculiar acid extracted from cinchona. Let a watery extract from hot infusions of the bark in power of the control of the der be made. Alkohol removes the resinous part of this extract, and leaves a viscid residue, of a brown colour, which has hardly any bitter taste, and which consists of kinate of lime and a mucilaginous matter. This residue is dissolved in water, the liquor is filtered and left to spontaneous evaporation in a warm place. and left to spontaneous evaporation in a warm place. It becomes thick like syrup, and then deposites by degrees crystalline plates, sometimes hexaédral, sometimes rhomboidal, sometimes square, and always coloured slightly of a reddish-brown. These plates of kinate of lime must be purified by a second crystallization. They are then dissolved in ten or twelve times their weight of water, and very dilute aqueous oxalic acid is poured into the solution, till no more precipitate is formed. By filtration, the oxalate of lime is separated, and the kinic acid being concentrated by spontaneous evaporation, yields regular crystals. It is decomposed by heat. While it forms a soluble salt with line, it does not precipitate lead or silver from their lime, it does not precipitate lead or silver from their solutions. These are characters sufficiently distinctive.

The kinates are scarcely known; that of lime consti tutes seven per cent. of cinchona.

KINO. (An Indian word.) Gummi gambiense; Gummi rubrum adstringens gambiense. The tree from which this resin is obtained, though not botanically ascertained, is known to grow on the banks of the river Gainbia, in Africa. On wounding its bark the fluid kino immediately issues drop by drop, and, by the heat of the sun, is formed into hard masses. It is in appearance very like the resin called Sanguis draconis; much redder, more firm, resinous, and ad-stringent than catechu. It is now in common use, and is one of the most efficacious vegetable adstringents, is one of the most efficacious vegetable adstringents, or strptics, in the materia medica. Its dose is from twenty to thirty grains.

KNEE-HOLLY. See Ruscus.

KNEE-HOLLY. See Patella.

KOLLYRITE. A light greasy mineral of a white colour, which adheres to the tongue.

Kolto. (A Polonese word.) The pifca polonica,

colour, which adheres to me tongue.

Kolto. (A Polonese word.) The pilca polonica,
or plaited hair.

KOUMIS. A vinous liquid which the Tartars make
by fermenting mare's milk Something similar is
prepared in the Orkneys and Shetland.

KRAMPRIA. (So named in commemoration of
two German botanists, who flourished about the middle of the last century.) The name of a genus of
plants in the Linnean system. Class, Tetrandria;
Order, Monogynia.

KRAMERIA TRIANDRIA. The systematic name of the

tree, the root of which is called rhatania, a substance tree, the root of which is called rhatania, a substance which has been iong known to the manufacturers of port wine; it is the production of Peru, and was long thought to be the root of the cinchona cordifolia. It is described as externally resembling the root of the rubia tinctorum to the taste, being aromatic, bitter, and very astringent; its infusion or decoction turns black with sulphate of iron, and precipitates tannin. The principal virtues appear to reside in the cortical part of the root, which is thick and perious. part of the root, which is thick and resinous. An opinion prevails that the substance sold in the shops under the name of foreign extract of bark, is made from this root.

It is well known that the medical virtues of this root are powerfully tonic. In debility of the digestive organs, in chronic rheumatisms, fluor albus, and in intermittent fevers, it has been employed with good effect. While given in doses similar to cinchons, it has the advantage of being only one-third the price of

KRAMERIC ACID. (Acidum kramericum; from krameria, the name of the plant from which it is obtained.) An acid obtained by Peschier from the root of the Krameria triandria.

KYANITE. See Cyanite

KYNA'NCHE. See Cynanche.

LA'BDANUM. See Cistus creticus.
LABELLUM. A little lip. Applied in botany to the barba, or inferior lip, of ringent and personate ants. See Corolla.

LABIUM. (Labium, i. n.; απο του λαβειν.)

1. The lip of animals.

2. Applied in botany to corolls of plants, which are termed unilabiate, bilabiate, &c.; and from their position in certain flowers, superior, inferior, &c.

La'Blum Leporitum. See Hare-lip.

LABORATO'RIUM. (From laboro, labour.) A
place properly fitted up for the performance of chemi-

LABRADOR STONE. See Felspar.

LABRADOR STONE. See Felspar.

LA'BYRINTH. Labyrinthus. That part of the Internal ear which is behind the cavity of the tympanum; it is constituted by the cochlea, vestibulum, and semicircular canals. See Ear.

LAC. (Lac. tis. n.) 1. Milk. See Milk.
2. The name of a vegetable substance. See Lacca.
LAC AMMONIACI. See Mistura ammoniaci.
LAC AMMONIACI. See Mistura amygdala.

LAC ANYONALE. See Austrara amyganae.
LAC ANYONALE. See Mistura as safetidæ.
LAC SULPHURIS. See Sulphur præeipitatum.
LA'CCA. (From lakah, Arabian.) Gumur laccæ.
Stick-lac; Gum-lac; Seed-lac; Shell-lac. The improper name of gum-lac is given to a concrete b ittle proper name of guin-lac is given to a concrete billine substance, of a da 'k red colour, brought from the East Indies, incrusta ed on the twigs of the Croton luccufrum; foliis ovatis tomentosis serrulatis petiolatie, colucibus tomentosis, of Linna us, where it is deposited by a small insect, at present not scientifically known. It is found in very great quantities on the uncultivated mountains on both sides the Ganges, and is of great use to the natives in various works of art, as varnish, painting, dying, &c. When the resisions matter is painting, dying, &c. When the resisions matter is broken off the wood into small pieces or grains, it is

termed seed-lac, and when melted and formed into flat plates, shell-lac. This substance is chiefly employed for making sealing wax. A functure of it is recom-

mended as an antiscorbutic to wash the gums.

LA'CHRYMA. A tear. A limpid fluid secreted by
the lachrymal gland, and flowing on the surface of the eye. See Tear.

LACHRYMA ABIEGNA. See Terebinthina argentora-

LACHRYMAL. Lachrymalis. Of or belonging to tears, or pairts near where they are secreted. LACHRYMAL BONE. See Unguis os. LACHRYMAL DUCT. Ductus lachrymalis. The ex-LACHRYMAL.

cretory duct of the lachrymal gland, which opens upon the internal surface of the upper eyelid.

LACHRYMAL GLAND. Glundula lachrymalis. A glomerate gland, situated above the external angle of the orbit, in a peculiar depression of the frontal bone. It secretes the tears and conveys them to the eye by its excretory ducts, which are six or eight in number.

LACHRYMAL NERVE. The fifth pair of nerves from the head is divided into several branches, the first of which is called the orbitary branch; this is divided into three more, the third of which is called the tachru-

Into three more, the third of which is cancer the teaching mad branch; it toos off chiefly to the lachrynnat gland.

LACCIC ACID: (Acidum laccicum; from lacca, the substance in which it exists.) 'Dr. John made a watery extract of powdered stick-lac, and evaporated it to dryness. He digested alkohol on this extract, and evaporated the alkoholic extract to dryness. He then digested this mass in ether, and evaporated the ethereal solution; when he obtained a syrupy mass of a light yellow colour, which was again dissolved in alkohol. On adding water to this solution, a little resin fell. A peculiar acid united to potassa and lime remains in the solution, which is obtained free, by forming with acetate of lead an insoluble lacoate, and decomposing this with the equivalent quantity of sulphuric acid Laccic acid crystallizes; it has a wine-yellow colour, a sour taste, and is soluble, as we have seen, in water alkohol, and ether. It precipitates lead and mercury white; but it does not affect lime, barytes, or silver, in It throws down the salts of iron their solutions.

their solutions. It throws down the salts of iron white. With lime, soda, and potassa, it forms deliquescent salt, soluble in alkohol."

LACINIATUS. Laciniate, fringe-like: cut into numerous irregular portions; applied to leaves, petals, &c.; as the leaves of the Ranunculus parviflorus, and Geranium columbinum, the petals of the Reseda.

Laco'NICUM. (Because they were much used by the people of Laconia.) A stove, or sweating-room.

LACYATE. A solution of lac in alkohol.

LACTATE. Action of lac in alkohol.

LACTATE. Lactas: A definite compound, formed by the union of the acid of sour whey, or lactic acid, with salifiable bases; thus lactate of potassa, &c.

LACTATION. (Lactatic; from lacteo, to suckle.)

LACTATION. (Lactatio; from lacteo, to suckle.) The giving suck. LACTEAL.

LACTEAL. (Lacteus; from lac, milk; because the fluid they absorb looks like milk.)

1. Milky. 2. In anatomy, this term is applied to the vasa lactea.

The absorbents of the mesentery, which originate in the small intestines, and convey the chyle from thence to the thoracic duct. They are very tender and transparent vessels, possessed of an infinite number of valves, which when discanded with other a milky or lacteal. parent vessets, possessed of an infinite number of valves, which, when distended with chyle, a milky or lacteal fluid, give them a knotly appearance. They arise from the internal surface of the villous coat of, the small intestine, perforate the other coats, and form a kind of net-work, while the greater number unite one with another between the muscular and external coats. with another between the muscular and external coats. From thence they proceed between the laminæ of the mesentery to the conglobate glands. In their course they constitute the greater part of the gland through which they pass, being distributed through them several times, and curled in various directions. The lacteals having passed these glands, go to others, and at length seek those nearest the mesentery. From these glands, which are only four or five, or perhaps more, the lacteals pass out and ascend with the mesenthe lacreats pass out and ascend with the messanteric artery, and unite with the lymphatics of the lower extremities, and those of the abdominal viscera, and then form a common trunk, the thoracic duct, which, in some subjects, is diluted at its origin, forming the receptoration chyli. Sec. Nutrition.

LACTESCENS. (From lac, milk.) Lactescent

or milky.

LACTIC ACID. (Acidum lacticum; from lac. milk.) By evaporating sour whey to one-eighth, fivering, precipitating with lime-water, and separating the sime by oxahe acid, Scheele obtained an aqueous solution of what he supposed to be a peculiar acid, which has accordingly been termed the lactic. To procure it separate, he evaporated the solution to the consistence separate, he evaporated the solution to the consistence of honey, poured on it alkohol, filtered this solution, and evaporated the alkohol. The residuum was an acid of a yellow colour, incapable of being crystallized, attracting the humidity of the air, and forming deliquescent salts with the earths and alkalies.

Resilber 1 correspondent

Bouillon Lagrange since examined it more narrowly: and from a series of experiments concluded, that it consists of acetic acid, muriate of potassa, a small portion of iron probably dissolved in the acetic acid, and an

animal matter.

This judgment of Lagrange was afterward supported by the opinions of Fourcioy and Vauquelin. But since then, Berzelius has investigated its nature very fully, and has obtained, by means of a long and often-re-peated series of different experiments, a complete conviction that Scheele was in the right, and that the lactic

acid is a peculiar acid, very distinct from all others.

The lactic acid, purified, has a brown-yellow colour, and a sharp sour taste, which is much weakened by diluting it with water. It is without smell in the cold, but emits, when heated, a sharp sour smell, not unlike that of sublimed oxalic acid. It cannot be made to crystallize, and does not exhibit the slightest appearance of scaling whetherease that districts the shightest appearance of scaling whetherease that districts the shigh and crystallize, and does not exhibit the slightest appear-ance of a saline substance; but dries into a thick and smooth varnish, which slowly attracts moisture from the air. It is very easily soluble in alkohol. Heated in a gold spoon over the flame of a candle, it first boils, and then its pungent acid smell becomes very manifest, but extremely distinct from that of the acetic acid; afterward it is charred, and has an empyreumatic, but by no means an animal, smell. A porous chartic, out by no means an animal, smeil. A porous char-coal is left behind, which does not readily burn to ashes. When distilled, it gives an empyreumatic oil, water, empyreumatic vinegar, carbonic acid, and in-flammable gases. With alkalies, earths, and metallic oxides, it affords peculiar salts; and these are distin-guished by being soluble in alkohol, and in general by not having the least disposition to crystallize, but dry-ling into a massilike quin which slowly becomes moist ing into a mass-like gum, which slowly becomes moist in the air.

The Arabian name for the fever which LA'CTICA. the Greeks call Typhos.

LACTI'FUGA. (From lac, milk, and fugo, to drive

LACTIFIGA. (From lac, milk, and fugo, to drive away.) A medicine or other means which dispel milk.

LACTU'CA. (From lac, milk; named from the milky juice which exudes upon its being wounded.).

1. The name of a genus of plants in the Linnaean aystem. Class, Syngenesia; Order, Polygamia aqualis. The lettuce.

2. The pharmacopæial name of the garden-lettuce, the Lactuce, sating.

the Lactuca sativa.

LACTUCA GRAVEDLENS. See Lactuca virosa.

LACTUCA SATIVA. The systematic name of the lettuce. It is esteemed as a wholesome, aperient, bitter anodyne, easy of digestion, but affording no nutriment. Lettuces appear to agree better with hot, bilious, melancholic temperaments, than the phlegmatic. The seeds possess a quantity of oily substance, which, triturated with water, forms an emulsion esteemed by some in ardor uring, and some diseases of the unit. some in ardor urine, and some diseases of the urinary passages. Lettuce was famous for the cure of the emperor Augustus, and formed the opiate of Galen, in his old age; a proof that, in the warmer climates, it must acquire an exaltation of its virtues above what is met with in this country

LACTUCA SCARIOLA. Lactuca sylvestris; Scariola, Scariola gallorum. This species possesses a stronger degree of bitterness than the Lactuca sativa, and is said to be more aperient and laxative. It is nearly

said to be more aperient and laxative. It is hearly similar, in virtue as in taste, to endive unblanched.

Lactuca virosa. The systematic name of the opium, or strong-scented lettuce. Lactuca graveolens. opium, or strong-scented tettice. Lactuca graveotens, Lactuca-folis horizontalibus carino aculeatis dentatis, of Linneus. A common plant in our bedges and ditches. It has a strong, ungrateful smell, resembling that of opium, and a bitterish acrid taste: it abounds with a milky juice, in which its sensible qualities seem to reside, and which appears to have been noticed by Dioscorides, who describes the odour

and taste of the juice as nearly agreeing with that of the and tasted the junce as learning stream wanted white poppy. Its effects are also said, according to Haller, to be powerfully narcotic. Dr. Gollin, at Vienna, first brought the lactica virosa into medical repute, and its character has lately induced the College of Physicians at Edinburgh, to insert it in the catalogue of the materia medica. More than twenty-four cases of dropsy are said, by Collin, to have been successfully treated by employing by Collin, to have been successfully treated by employing an extract prepared from the expressed juice of this plant, which is stated not only to be powerfully diuretic, but, by attenuating the viscid humours to promote all the secretions, and to remove visceral obstructions. In the more simple cases, proceeding from debility, the extract, in dose of eighteen to thirty grains a-day, proved sufficient to accomplish a cure; but when the disease was involerate, and accompanied with visceral observed summerate or accompanie a cure; but when the disease was involerate, and accompanied with visceral obstructions, the quantity of extract was increased to three drachms; nor did larger doses, though they excited nausea, ever produce any other bad effect; and the patient continued so strong under the use of this remedy, that it was seldom necessary to employ any tonic medicines. Though Dr. Collin began his experitonic medicines. Though Dr. Collin began his experiments with the lactuce at the Pazman hospital, at the time he was trying the arnica, 1771, yet very few physicians, even at Vienna, have since adopted the use of this plant. Plenciz, indeed, has published a solitary instance of its efficacy, while Quarin informs us that he never experienced any good effect from its use; alleging, that those who were desirous of supporting its character, mixed it with a quantity of extraction scalles. Under these circumstances we shall only say, that the recommendation of this medicine by Dr. Collin will be acaccely thought sufficient to establish its lin will be scarcely thought sufficient to establish its use in England.

["LACTUCA ELONGATA. This is a tall, lactescent, native plant. It is substituted for the Lactuca virosa of Europe, which it somewhat resembles in its properties, though of inferior strength. I have no personal thes, morgh of metror strength. I have no personal experience with this plant, but am informed by physicians who have tried it, that it is anodyne, and promotes the excretion of the skin and kidneys. An extract made by inspissating the expressed juice may be given in doses of from five to fifteen grains. The con-

given in doses of from five to fifteen grains. The concrete, bactescent juice would probably be found much stronger."—Big. Mat. Med. A.]

["Lactroantum. Common garden-lettuce, like many plants of its class, exudes a milky juice on being wounded after it is fully grown. This juice concrete on exposure to the air, into a brownish, bitter substance, resembling opium in some of its characters. It is most abundant when the plant is in flower, and least so while the leaves are young, or when they are childred, by heading. Lactucarium has the colour. least so while the leaves are young, or when they are circlated by heading. Lactucarium has the colour, and in some degree the taste and odour, of opium, for which it has been proposed as a substitute by Dr. Coxe and Dr. Duncan. It has been said to contain morphia in addition to its other component parts. It acts as a soporific, and has been thought useful in phthisis as a palliative. Dose, one or two grains."—Big. Mat. fed. A.] LACTUCE'LLA. Med.

LACTUCE'LLA. (Diminutive of lactuca, the lettuce; so named from its milky juice.) The sow-thistle. The

Sonchus arvensis.

Lactuci Mina. (From lactee, to suckle: so called because they happen chiefly to children while at the breast.) The thrush, and little ulcers, or crusty scabs on the skin, which happen during the time the child is

at the breast.

LACTU'MEN. (From lac, milk; so named because it is covered with a white crust.) The achor, or scaldhead; also a little crusty seab on the skin, affecting children at the breast.

LACU'NA. (From lacus a channel.) The mouth or opening of the excretory duct of a muciparous gland, as those of the urethra, and other parts.

LADANUM. (From ladon, Arab.) See Cistus

creticus.

creticus.

Ladics' mantle. See Alchemilla.

Ladics' mantle. See Alchemilla.

Ladics' monck. See Cardamine.

Lætifica'Ntia. (From lætifica, to make glad.) This term has been applied to many compositions under the intention of cordials; but both the medicines and distinctions are now quite disused.

LÆVIS. Smooth and even. Applied to stems of plants, and is opposed to all roughness and inequality whatever.

whatever.

LEVITAS INTESTINORUM. A name of the lientery!

See Diarrhaa.

Légaros. (Aayapos, lax; so named from its comparative laxity.) The right ventricle of the heart.

LAGENÆFORMIS. Bottle-shaped. Applied to the gourd; as in Cucurbita lagenaria.

the gourd; as in Caeurbita lagenura.

LAGNESIS. (From May 1975, illudinous.) The name of a genus of diseases. Class, Grenetica; Order, Organica; in Good's Nosology: lust. It embraces two species, viz. Lagnesis salacitas, and L. furor.

LAGOPHTHA LMIA. (From May 1985, a hare, and applications, an eye; hecause it is believed that hares sleep with their eyes open.) Lagophthalmos. The hare's eye. A disease in which the eye cannot be shut. The following complaints may arise from it: a constant weening of the organ in consequence of the interrupweeping of the organ, in consequence of the interruption of the alternate closure and opening of the eyelids, which motions so materially contribute to propelling the tears into the nose; blindness in a strong light, in consequence of the inability to moderate the rays which consequence of the maining to moderate the rays which fall on the eye; on the same account, the sight becomes gradually very much weakened; incapacity to sleep where there is any light; irritation, pain, and reduess of the eye, from this organ being exposed to the extrameous substances in the atmosphere, without the eyelids having the power of washing them away in the natural manner.

An enlargement or protrusion of the whole eye, or a An entargement or protrusion of the whole eye, or staphyloma, may obviously produce lagophthalmos But affections of the upper eyelids are the common causes. Heister says, he has seen the complaint originate from a disease of the lower one. Now and then lagophthalmos depends on paralysis of the orbital cularis muscle. A cicatrix after a wound, ulcer, or burn, is the most frequent cause.

LAGOPO DIUM. (From) www. a hare, and con-

burn, is the most frequent cause.

LAGOPO DIUM. (From λαγωος, a hare, and πους, a foot; so called because it has narrow hairy leaves, like the foot of a hare.) The herb hard's-foot trefoil.

LAGOSTOMA. (From λαγωος, a have, and ςομα, the mouth: so called because the upper lip is divided in the middle like that of a hare.) See Hare-lip.

LAKEWEED. See Polygonum hydropiper.

LALLANS. See Ladlato.

LALLATIO. That species of vicious pronunciation in which the letter l is rendered unduly liquid, or substituted for an r. The Greeks denominated it leasthquistures from the letter l lambdquistures from the letter l lambdquistures.

lambdacismus, from the letter \( \lambda \), lambda.

Gum-arabic.

LAMBDACI'SMUS. A defect in speech, which LAMBDACI'SMUS. A defect in speech, which consists in an inability to pronounce certain consonants; or that stammering or difficulty of speech when the letter \$t\$ is pronounced too liquid, and othen in the place of \$r\$. See \*Fedlismus lallans.\*

LAMBDOLDAL. (Lambdoidalis; from \$\Delta\$, and \$\text{cdos}\_t\$ resemblance, because it is shaped like the letter \$\Delta\$. Belonging to the suture so called.

LAMBDALL SUPPLIES. (Suture, Lambdoidalis; be-

A.) Belonging to the suture so caneu.

Lambdoidalis grouvers. (Sutura lambdoidalis; because it is shaped like the letter A.) Occipital suture.

The suture that unites the occipital bone to the two

parietal somes.

LAMBITIVUM. (From lambo, to lick up.) A linctus or medicine to be licked up.

LAMBILLA. (Dim. of lamina, a plate of metal.)

A thin plate of metal.

2. The parallel gills or plates in the inferior surface

of the agaric family only.

LA'MINA. (From  $\epsilon \lambda a \omega$ , to beat off.) A bone, or membrane, or any substance resembling a thin plate of

netdl.

2. The lap of the car.

3. The parts of the corolla of a polypetalous flower, are named the unguis, or claw, and lamina, or border. LAMINABILITY. A property possessed by some bodies of being extended in dimensions by a gradually-applied pressure. See Ductifity.

LAMIUM. (From Lamium, a mountain of Ionia, where it grew; or from lama, a ditch, because it usually grows about ditches and neglected places.) The name of a genus of plauts in the Linnman system. Class, Didynamia; Order, Gymnospermia. The nettle.

LAMIUM ALDUM. Urtica mortua; Archangelica; Galeodolon; Stachys foxida; Urtica inera magna fattaissima. Dead nettle; White archangel nettle. Uterine hemorrhages and fluor albus are said to be relieved by infusions of this plant, from whose sensible relieved by infusions of this plant, from whose sensible qualities very little benefit can be expected.

LAMPIC ACID. (Acidum lampsicum from laurus

to shine.) "Sir H. Davy, during his admirable re- He was made physician to three succeeding popes, and searches on the nature and properties of flame, announced the singular fact, that combustible bodies might be made to combine rapidly with oxygen, at temperatures below what were necessary to their visible inflamma-tion. Among the phenomena resulting from these new tion. Among the phenomena resulting from these new combinations, he remarked the production of a peculiar acid and pungent vapour from the slow combustion of ether; and from its obvious qualities he was led to suspect, that it might be a product yet new to the chemical catalogue. Faraday, in the 3d volume of the Journal of Science and the Arts, has given some account of the properties of this new acid; but from the very small quantities in which he was able to collect it, was prevented from performing any decisive experiments upon it.

riments upon 11.

In the 6th volume of the same Journal, we have a pretty copious investigation of the properties and compounds of this new acid, by Daniell. From the slow combustion of ether during six weeks, by means of a coil of platina wire sitting on the cotton wick of the lamp, he condensed with the head of an alembic, whose beak was inserted in a receiver, a pint and a half of

the lampic acid liquor

When first collected, it is a colourless fluid, of an intensely sour taste, and pungent odour. Its vapour, when heated, is extremely irritating and disagreeable. and, when received into the lungs, produces an oppression at the chest very much resembling the effect of chlorine. Its specific gravity varies according to the care with which it has been prepared, from less than 1.000 to 1.008. It may be purified by careful evaporation; and it is worthy of remark, that the vapour which rises from it is that of alkohol, with which it is slightly contaminated, and not of ether. Thus rectified, its specific gravity is 1.015. It reddens vegetable blues, and decomposes all the earthy and alkaline carbanata. Compared to the control partial sale with their hose which of chlorine. Its specific gravity varies according to the bonates, forming neutral salts with their bases, which are more or less deliquescent."—Ure's Chem. Dict.

["Lamp, safety. The safety-lampas recommended for general use by Sir H. Davy, is a cylinder of wire gauze with a double top, securely and carefully fastened. The whole is protected and rendered convenient for carrying by a frame and ring. If the cylinder be of twilled wire-gauze the wire should be at least of the thickness of one-iortieth of an inch, and of iron or copper, and 30 in the warp, and 16 or 18 in the weft. If of plain wire-gauze the wire should not be less than one-sixtieth of an inch in thickness, and from 28 to 30

both warp and woot

The operation of this lamp may be shown on a small scate by suspending it in a glass jar, and then admitting a sufficient stream of coal gas to render the enclosed atmosphere explosive. The flame of the lamp first enlarges, and is then extinguished, the whole of the cage being filled with a lambent blue light; on turning off the supply of the gas this appearance gradually ceases

and the wick becomes rekindled, when the atmosphere returns to its natural state."—Web. Man. of Chem. A.] LA'MPSANA. See Lapsana.
LANA. Wool. In botany, applied to a species of hairy pubescence, consisting of white, long, somewhat crisp hair, like wool. It is applied to stems, leaves, seeds, &c

LANA PHILOSOPHICA. The snowy flakes of white oxide, which rise and float in the air from the combustion of zinc.

LANATUS. Woolly. Applied to the stems, leaves, seeds, &c. of plants. The Verbascum thapsus is a good example of the Caulis lanatus; the Stachys lanata of the leaves; and the Gossypium of the seed.
LANCEOLATUS. Lanccolate, lance-shaped. Ap-

LANCEOLATUS. Lanccolate, tance-snaped. Applied to leaves, petals, seeds, &c. of a narrow, oblong form, tapering towards each end; as the leaves in Plantago lanceolata, and petals of Narcissus minor, and seeds of the Fraxinus.

LANCE'TTA. (Dim. of lancea, a spear.) A lancet. An instrument used for bleeding and other

LANCISI, JOHN MARIA, was born at Rome, in 1654 He was intended for the church, but a taste for natural history led him to the study of medicine, which he pursued with great ardour, and took his degree at the age of 18. After some minor appointments, which enabled litth to display his talents and acquirements, he was appointed professor of anatomy in 1684; and continued his duties for 13 years, with great reputation

attained the age of 65. He had great knowledge of mankind, with very engaging manners; and his zeal for the advancement of medicine was extreme and unceasing. He collected a library of above 20,000 vo-lumes, which he devoted to the use of the public, and ceasing. He collected a library of above 20,000 volumes, which he devoted to the use of the public, and particularly of medical students: it was opened four years before his death. He left a considerable number of works, several of which were printed, others remain in manuscript in that library. His more important publications are, a treatise, "De Subitaneis Mortibus;" "The Anatomical Plates of Eustachius, with a Preface and Notes, in folio;" and a dissertation, "De Noxiis Paludum Effluviis," referring intermitents to the marsh miasmata, printed in 1717. After his death, a treatise, "De Motu Cordis et Aneurysmatibus," and a collection of cases from his manuscript, were given to the public.

LANGRISH, BROWNE, a physician of the last centry, distinguished himself as an advocate for the mechanical theories of physiology and medicine, which he supported by numerous experiments. He had the morit of ascertaining several interesting facts in respect to the nature of the circulating powers. He died in London, in 1759. His publications are, "A New Essay on Muscular Motion, &c.;" "Modern Theory of Physic;" "Physical Experiments upon Brutes;" and "Croonian Lectures on Muscular Motion."

LAO'NAC CURATIO. A method of curing the gout, by evaporating the morbid matter by topical applications.

by evaporating the morbid matter by topical applica-

LAPA'CTICA. (From λαπαζω, to evacuate.) Pur-

LAPA CITCA. Sample and the medicines. LA PARA. (From  $\lambda a \pi a g \omega$ , to empty; so named from its concave and empty appearance.) The flank. LAPAROCE LE. (From  $\lambda a \pi a \rho a$ , the flank, and when a rupture.) A rupture through the side of the

LA'PATHUM. (From λαπαζω, to evacuate: so named because it purges gently.) The dock. See

LAPATHUM ACETOSUM. See Rumez acetosa. LAPATHUM ACUTUM. See Rumez acutus. LAPATHUM AQUATICUM. See Rumez hydrolapa-

LAPIDE'LLUM. (From lapis, a stone.) Lapidellus. The name of a kind of spoon, formerly used to take out small stones and fragments from the bladder. out sman stones and tragments from the blander.

LAPIDEUS. Stony. Applied to seeds of plants;
as those of the Lithospernum and Ostcosperma.

LAPIDES CANCRORUM. See Cancer.

LAPILLI CANCRORUM. See Cancer.

LA'PIS. (Lapis, idis. m.; of uncertain deriva tion.) A stone

tion.) A stone.

LAPIS AGERATUS. See Ageratus.

LAPIS BEZOAR. See Bezoar.

LAPIS CARNLEUS. See Lapis lazuli.

LAPIS CALMINARIS. See Calamine.

LAPIS CALCARUS. A carbonate of lime.

LAPIS CALCARUS. See Lapis lazuli.

LAPIS HERMATITES. See Hamatites.

Arlesia Hermatites. See Hamatites. Ardesia hibernica. Ardesia hibernica. Hardesia. Irish slate. A kind of slate, or very hard stone, found in different parts of Ireland, in a mass of a bluish-black colour, which stains the or very hard stone, found in different parts of Ireland, in a mass of a bluish-black colour, which stains the hands. When dried and powdered, it is pale, or of a whitish blue, and, by keeping, grows black. In the fire it yields a sulphureous gas, and acquires a pale-red colour, with additional hardness. It is occasionally powdered by the common people, and taken in spruce beer, against inward bruises.

LAPIS HYSTRICIS. See Bezoar hystricis.

LAPIS INFERNALIS. An old name for the caustic

potassa. See Potassa fusa.

LAPIS LAZULI. Lapis cyanus. Azure stone. A combination of 46 silica, 28 lime, 14.5 alumina, 3 oxide of iron, 6.5 sulphate of lime, and 2 water, according to Klaproth. This singular mixture forms a stone, of to Klaproth. This singular mixture forms a stone, or a beautiful azure blue, which it preserves in a strong heat, and does not suffer any alteration by the contact of air. The finest specimens come from China, Per sia, and Great Bucharia. It was formerly exhibited as a purgative and vomit, and given in epilepsy.

LAPIS MALACENSIS. See Becoar hystricis.

LAPIS OLLARIS. Potstone.

LAPIS PORCINUS. See Bezoar hystricis. LAPIS SIMIE. See Bezoar simia.

LA PSANA. (AAWan, Itom zampstans, the town near which it flourished; or from hamafa, to evacuate; because it was said to relax the bowels.) The name of a genus of plants. Class, Syngenesia; Order, Polygamia æquales.

LAPSANA COMMUNIS. Lampsana; Napium; Pa-pillaris herba. Dock-cresses. Nipplewort. This pittaris nerva. Dock cresses. Supplement. This plant is a lactescent bitter, and nearly similar in virtues to the cichory, dandelion, and endive. It has been employed chiefly for external purposes, against wounds and ulcerations, whence the name of httpplewort and papillaris.

LA QUES GUTTURIS. A malignant inflammation of the tonsils, in which the patient appears as if he were

suffocated with a noose.

Suffocated with a noose.

LARCH. See Pinus larix.

LARD. The English name of hog's fat, when melted down. See Adeps suilla.

[LARKSPUR. See Delphinium. A.]

LARYNGISMUS. The name of a genus of diseases.
Class, Pneumatra; Order, Pneumatra, in Good's Nosology. Laryngic suffocation. It has only one Species, striulus, the spasnodic croup.

LARYNGOTOMY. (Laryngotomia; from Account the Name of the Name of

ρυγξ, the larynx, and τεμνω, to cut.) See Broncho-

LARYNX. (Larynx, gis. f.; a Greek primitive.) A cartilaginous cavity, situated behind the tongue, in the anterior part of the rauces, and lined with an exquisitely sensible membrane. It is composed of the the anterior part of the fauces, and lined with an ex-quisitely sensible membrane. It is composed of the nanular or cricoid cartilage, the scutiform or thyroid, the epiglottis and two arytenoid cartilages. The superior opening of the larynx is called the glottis. The laryngeal arteries are branches of the external carotids. The laryngeal veins evacuate their blood into the external jugulars. The nerves of the larynx is are from the eighth pair. The use of the larynx is to constitute the organ of voice, and to serve also for resultation.

LASCI'VUS. (From lacio, to ensnare; upon ac-

count of its irregular motions.)

1. Lascivious

2. An epithet used by Paracelsus for the chorea

LA'SER. (A term used by the Cyrenians.) The

hat SER. It ferm used by the cytemans. The herb laserwort, or assatistida.

LASERPITIUM. (Lac serpitium, alluding to its milky juice.) The name of a genus of plants in the Linnean system; Class, Pentandria; Order, Di-

LASERPITIUM CHIRONIUM. Panax. Hercules' allheal, or woundwort. The seeds and roots of this plant are warm, and similar in flavour and quality to those of the parsnip. The roots and stalks have a much etronger smell, which resembles that of opoponax; and Boerleave relates, that, on wounding the plant in the summer, he obtained a yellow juice, which, being inspissated a little in the sun, agreed perfectly in both respects with that exolicy any resident. spects with that exotic gum resin.

LASERPITION LATIFICATION. The systematic name of the white gentian. Gentiana alba. The root of this plant, Laserpitium folius cordaits, inciso-serratis, of Linnzus, possesses stomachic, corroborant, and de-

of Linneus, possesses stomachic, corroborant, and de-obstruent virtues. It is seldom used in name of the Laserpitium sters. The systematic name of the heattwort. Seseli; Siler montanum. Sermountain. The seeds and roots of this plant, which grows in the fouthern parts of Europe, are directed as officinals. They have an agreeable smell, and a warm, glowing, aroundic taste; and though neglected in this country, do not appear to be degreeably so.

do not appear to be deservedly so.

LATERAL. (Lateralis; from latus, the side.) On the side. A term in general use, applied to parts of the body, operations, and to flower-stalks, when situated on the side of a stem or stalk; as in Erica

LATERAL OPERATION. A name given to an opera-tion. One mode of cutting for the stone, because it is performed on the side of the pelvis. See Lathotomy.

LAPPA. (Lappa, απο τυ λαβειν, from its soizing the garments of passengers.) See Arctium lappa.

LAPPA MAJOR. See Arctium lappa.

LA

LATHYRIS. (From Actos, to lorger; because it was thought to affect the memory.) A term given by some author to a species of tithymal or spurge, commonly known by the name of Trithymalus latifolius, the broad-leaved spurge, and called by some also Cata-

LA'THYRUS. (A name adopted from Theophras tus, whose λαθυμος, appears evidently to be like ours something of the pea or vetch kind, though it is impossible precisely to determine what.) The name of a genus of plants in the Linnaan system. Class, Diadelphia; Order, Decandria. The vetch.

LAT'SSIMUS. A term applied to a muscle from

its great breadth.

its great breadth.

LATISSIMUS DORSI. Aniscalptor, of Cowper. Dorsilumbo sacro humeral, of Dunas. A muscle of the humerus, situated on the posterior part of the trunk. It is a very broad, thin, and, for the most part, fleshy muscle, which is placed inimediately under the skin, except where it is covered by the lower extremity of the trapezus. It arises tendinous from the posterior half of the upper edge of the spine of the os ilium, from the spinous processes of the os sacrum and lumbar vertebræ, and from five or six, and sometimes from seven, and even eight, of the lowermost ones of the back; also tendinous and fleshy from the upper edges and external surface of the four inferior false ribs, near their cartilages, by as many distinct slips. From these their cartilages, by as many distinct slips. From these different origins the fibres of the muscle run in different directions; those from the ilium and false ribs run almost perpendicularly upwards; those from the saamnost perpendicularly approximately upwards and forwards; and those from the vertebræ of the back, transversely outwards and forwards, over the inferior transversely outwards and forwards, over the inferior angle of the scapula, where they receive a small thin bundle of fleshy fibres, which arise tendinous from that angle, and are inserted with the rest of the muscle, by a strong, flat, and thin tendon, of about two inches in length, into the forepart of the posterior edge of the groove observed between the two tuberosities of the os numeri, for lodging the tendon of the long of the os numeri, for longing the tendon of the long head of the biceps. In dissection, therefore, this muscle ought not to be followed to its usertion, till some of the other muscles of the os humeri have been first raised. Its use is to pull the os humeri downwards and backwards, and to turn it upon its axis. Riolanus, from its use on certain occasions, gave it the name of ani tersor. When we raise ourselves upon our hands, as in rising from off an arm-chair, we may easily per-ceive the contraction of this muscle. A bursa mucosa A bursa mucosa is found between the tendon of this muscle and the os humeri, into which it is inserted.

LAUCA'NIA. (From \(\lambda au\omega, \) to receive: so called because it receives and conveys food.) The \(\omega\) resorbagus. cause it receives and conveys 100d.) In easophragus.

LAUDANUM. (From laws, praise: so named from its valuable properties.) See Tinctura opii.

LAUMONITE. Diprismatic zeolite.

LAUREL. See Laurus.

Laurel, cherry. See Prunus lauroccrasus.

Laurel, spurge. See Duphne laureola.

LAURE OLA. (Dim. of laurus, the laurel: named

from its resemblance to the laurel.) See Duphne

Laureola.

Lauro-cerasus. (From laurus, the laurel, and cerasus, the cherry-tree: so called because it has leaves like the laurel.) See Prunus laurocrasus.

Lauro'sis. (So called from Mount Laurus, where there were silver mines.) The spodium of silver.

LAU'RUS. (From laus, praise; because it was usual to crown the heads of eminent men with branches of it.) 1. The name of a genus or plants in the Linman system. Class, Enneandria; Order, Monogynia.

The laurel.

2. The pharmacopæial name of the sweet bay. See Laurus nobilis.

LAURUS CAMPHORA. The systematic name of the LATERAL SINUS. See Sinus.

LATERITIOUS. (Lateritius; from later, a brick.)

LATERITIOU The tree is indigenous and grows abundantly. The camphire is found to lodge everywhere in the intersection of the fibres of the wood, pith, and knots of the tree. The crude camphire, exported from Japan, appears in small grayish pieces, and is intermixed with various extraneous matters; in this state it is received by the Dutch, and purified by a second sublimation; it is then formed into loaves, in which state it is sent to England.

"Purified camphor is a white concrete crystalline substance, not brittle, but easily crumbled, having a peculiar consistence resembling that of spermaceti, pectuar consistence resembling that of sperimeter, but harder. It has a strong lively smell, and an acrid taste; is so volatile as totally to exhale when left ex-posed in a warm air; is light enough to swim on water; and is very inflammable, burning with a very white flame and smoke, without any residue.

The roots of zedozoy, thyme, rosemary, sage, the initia hellenium, the anemone, the pasque flower or pulsarilla, and other vegetables, afford camphor by distillation. It is observable, that all these plants afford a much larger quantity of camphor, when the sap has been confirmed as much larger of the same of the confirmed as much larger of the same of been suffered to pass to the concrete state by several months' drying. Thyme and peppermint, slowly dried, afford much camphor; and Achard has observed that a smell of camphor is disengaged when volatile oil of fennel is treated with acids.

Kind, a German chemist, endeavouring to incorporate moriatic acid gas-with oil of turpentine, by putting this oil into the vessels in which the gas was received v hen extricated, found the oil change, first yellow, then brown, and, lastly, to be almost wholly coagulated into a crystalline mass, which comported itself in every respect like camphor. Tromsdorf and Boullay conrespect like campilor. Tromsdorf and Boullay confirm this. A small quantity of camphor may be obtained from oil of turpentine by simple distillation at a very gentle heat. Other essential oils, however, afford more. By evaporation in shallow vessels, at a heat not exceeding 57° F., Proust obtained from oil of layender 25, of sage. 21, of marjoram. 1014, of rosemany .0625. He conducted the operation on a pretty targe scale.

Camphor is not soluble in water in any perceptible degrees, though it communicates its smell to that fluid, and may be burned as it floats on its surface. It is said, however, that a surgeon at Madrid has effected its solution in water by means of the carbo-

Camphor may be powdered by moistening it with Campinor may be powdered by moistering it with a sikohol, and triturating it till dry. It may be formed into an emulsion by previous grinding with near three times its weight of almonds, and afterward gradually adding the water. Yelk of egg and mucilages are also effectual for this purpose; but sugar does not answer well.

It has been observed by Romieu, that small pieces of camphor floating on water have a rotatory motion.

Alkohol, ethers, and oils, dissolve camphor.

The addition of water to the spirituous or acid solu-

tions of camphor, instantly separates it

Hatchett has particularly examined the action of sulphuric acid on camphor. A hundred grains of camphor were digested in an ounce of concentrated sulphusic acid for two days. A gentle heat was then applied, and the digestion continued for two days longer. Six ounces of water were then added, and the whole distilled to dryness. Three grains of an essential oil, having a mixed odour of lavender and peppermin, came over with the water. The residuum being treated came over with the water. The residuum being treated twice with two ounces of alkohol each time, fifty-three grains of a compact coal in small fragments remained undissolved. The alkohol, being evaporated in a water-bath, yielded forty-nine grains of a blackish brown substance, which was bitter, astringent, had the smell of caromel, and formed a dark brown soltion with water. This solution threw down very dark brown precipitates, with sulphate of iron, acetate of lead, muriate of tim, and nitrate of lime. It precipitated gold in the metallic state. Isinglass threw down the winge of what was dissolved in a nearly black the whole of what was dissolved in a nearly black

quantities from camphor, it converts it into a peculiar acid." See Camphoric acid.

The use of this important medicine, in different seases, is a cry considerable. It has been much emdiseases, is very considerable. ployed, with great advantage, in fevers of all kinds,

In spasmodic and convulsive affections it is also ble. In spasmodic and convulsive affections it is use of much service, and even in epilepsy. In chronic diseases this medicine is likewise employed; and against rheumatism, arthritis, and mania, we have several accounts of its efficacy. Nor is it less efficacious when applied externally in certain diseases: it dissipates inflammatory tumours in a short time; and dissipates inflammatory tumours in a short time; and its antiseptic quality, in resisting and curing gaugeren is very considerable. Another property peculiar to this medicine, must not, however, be omitted; the power it possesses of obviating the strangury that is produced by cantharides, when sprinkled over a blister. The preparations of camphor ace, spiretus camphore, thementum complare, tinetura camphor, dissolved in and the mistura camphore. Camphor, dissolved in and the mistura camphora. Camphor, dissolved in acetic acid with some essential oils, forms the aromatic vinegar.

vinegar.

LAURNS CASSIA. Cassia lignea; Canella molabarica; Cassia lignea malabarica; Xylocassia; Canella malabarica et javensis; Karvo; Canella cubana; Arbor judaica; Cassia canella; Canellifera malabarica; Cinnamomum malabaricum; Calihacha canela. Wild cinnamon tree; Malabar cinnamon-tree, or castia lignea-tree. Cassia lignea is the bark of the Javuns tree, the folio triplinerviis lanceolatis, of Linnaus. The leaves are called folia malabathri in the shops. The bark and leaves abound with the flavour of cinnamon, for which they may be substituted; but in much larger doses, as they are considerably weaker.

LAURUS CINNAMONUM. The systematic name of the cinnamon-tree. Cinnamomum. This tree affords the true cinnamon, which is its inner bark. Jacquin describes the tree thus: Laurus cinnamomum; folins trinerviis ovato-oblongis; nervis versus apierm evanescentibus. Cinnamon bark is one of the most grateful of the aromatics; of a fragrant smell, and a mode-rately pungent, glowing, but not fiery taste, accompa-nied with considerable sweetness, and some degree of adstringency. It is one of the best cordial carminative and restorative spices we are in possession of, and is generally mixed with the diet of the sick. The essen-tial oil, on account of its high price, is seldom used: a tincture, simple and spirituous water, are directed to be kept in the shops. The watery infusion of cinna-mon is given with advantage to relieve nausea and check vomiting.

LAURUS CULILAWAN. The systematic name of the LAURUS CULLAWAN. The systematic name of the plant, the bark of which is called cortex cultivavan in the shops. Cullitlawan; Cortex caryophylloides. Laurus—foliis triplinereits oppositis, of Linneus. This bark very much resembles cinnamon in appear-

ance and properties.

ance and properties.

Laurus Nobilis. The systematic name of the sweet bay-tree. Laurus—foliis venosis lancolatis perennantibus, floribus quadrifidis, of Linnaus. This tree is a native of Italy, but cultivated in our gardens and shrubberies, as a landsome evergreen. The leaves and berries possess the same medicinal qualities, both having a sweet fragrant smell, and an aromatic adstringent taste. The laurus of honorary memory the distinguished favourities of Arylin men's mory, the distinguished favourite of Apollo, may be naturally supposed to have had no inconsiderable fame as a medicine; but its pharmaceutical uses are so limited in the practice of the present day, that this dignified plant is now rarely employed, except in the way of enema, or as an external application: thus the leaves are directed in the decoctum pro fomento, and

leaves are directed in the decoctum pro fomento, and the berries in the emplastram cumin.

LAURUS PERKEA. This species affords the Avigato pear, which, when ripe, melts in the mouth like marrow, which it greatly resembles in flavour. It is supposed to be the most nutritious of all the tropical fruits, and grows in vast abundance in the West Indies and New Spain. The unripe fruit have but little taste; yet, being very salubrious, are often eaten with sait and pepper. The saitors, when they arrive at the Havana, and those parts, purchase them in great quantities; and, chopping them into small pieces, with green capsicums, and a little sait, regale themselves heartily with them. They are esteemed also for their

antidysenteric qualities, and are prepared in a variety of ways for the tables of the rich.

LAURUS SASSAFRAS. The systematic name of the sassafras-tree. Sassafras; Cornus mas odorata; Lignum pavanum; Anhauba. The wood of this tree, Laurus—fulis trilobis integrisque, of Linnaus, is imported from North America, in long straight pheces, very light, and of a spongy texture, and covered with a rough, fungous bark. It has a fragrant smell, und a sweetish, aromatic, subacrid taste; the root, wood, and bark agree in their medicinal qualities, and are all mentioned in the pharmacopenias; but the bark is the most fragrant, and thought to be more efficacious than the woody part; and the branches are preferred to the large pieces. The medical character of this drug was formerly held in great estimation, and publications were professedly written on the subject. It is now, however, thought to be of little importance, and seldom used but in conjunction with other medicines, as a corrector of the fluids. It is an ingredient in the decoctum sarsagarults composition, or decotum lignorum; but the only officinal preparation of it is the essential oil, which is carminative and attimulant, and which may be given in the dose of two drops to ten.

LAVA The cinders or product of volcanoes.

LAVENDER. See Lavendula.

LAVENDER. See Lavendula.

LAVENDER. See Lavendula stachas.

LAVENDULA. See Lavendula.

LAVENDELA. The name of a genus of plants in the Linnaan system. Class, Didynamia; Order, Gymnospermia. Lavender.

2. The pharmacoposial name of the common laven-

nænn system. Class, Didynamia, Class, spermia. Lavender.

2. The pharmacoposial name of the common lavender. See Lavendula spica. The systematic name of the common lavender. Nardus italica. Lavendula-folius sessitibus lancelate-linearistus margine revolutions in the common lavender. Analysis of the spica interrupta nuda, of Linnaus. A native of the spica interrupta nuda, of Linnaus. Joins sessiblus lanceolato-linearibus margine revolu-tis, spica interrupta nuda, of Linnaus. A native of the southern parts of Europe, but cultivated in our gardens on account of the fragrance of its flowers. Their taste is bitter, warm, and somewhat pungent; the leaves are weaker and less grateful. The essen-itial oil, obtained by distillation, is of a bright yellow colour, of a very pungent taste, and possesses, if care-fully distilled, the fragrance of the lavender in per-fection. Lavender has been long recommended in nervous debilities, and various affectious wecognium fection. Lavender has been long recommended in nervous debilities, and various affections proceeding from a want of energy in the animal functions. The College directs an essential oil, a simple spirit, and a compound tincture, to be kept in the shops.

LAVENDULA STECHAS. The systematic name of the French lavender. Stachas; Stachas arabica; Spica hortulana; Stucadore. This plant is much less grateful in smell and flavour than the common lavender, to which it is allied in its properties.

LA VER. (From lavo, to wash; so named because

LA'VER. (From lavo, to wash: so named because it is found in brooks, where it is constantly washed by

1. The brook-lime.
2. The English name of a species of fucus which is eaten as a delicacy.

LAVIPE DIUM. (From lavo, to wash, and pes,

the foot.) A bath for the feet.

LAWSONIA. (After Mr. Lawson, a Scotchman, who published an excellent account of his voyage to Carolina, containing much information concerning the plants of that country.) The name of a genus of plants in the Linuxan system. Class, Octandria; Order, Monogynia.

Order, Monogyma.

Lawsonia Inermis. The systematic name of the true alkanna. Alkanna vera; alkanna vrientalis. An oriental plant; the Lawsonia—ramis inermibus, of Linnæus; principally employed, in its native place, as a dye. The root is the officinal part; which, however, is rarely met with in the shops. It possesses administration of the properties and many knowledges. stringent properties, and may be used as a substitute

LAXATI'VA. (From laxe, to loosen.) Gentle

purgatives

LAXA'TOR. (From laxo, to losen: so called from its office to relax.) A name applied to muscles, the office of which is to relax parts into which they are

antidysenteric qualities, and are prepared in a variety | Cowper; and Spheme salpingo mallien, of Dumas. A muscle of the internal ear, that draws the malieus

nutsele of the internal ear, that draws the maileus obliquely forwards towards its origin; consequently the membrana tympani is made less concave, or is relaxed.

LAXUS. Lax or diffused. Applied by botanists in opposition to rectus and structus; as in the stem of the Bunias cakitle, or sea rocket, the stem of which is described as caulis laxus.

LAZULITE. See #xurite.

LAZULITE. See #xurite.

LEAD. Plumbum. A metai found in considerable quantity in many parts of the earth, in different states, seldom, if at all, in the metallic state. It is found in that of oxide, red lead #xe. mixed with a portion of iron. that of oxide, red lead ore, mixed with a portion of iron, clay, and other earths. The colour of this ore is aurora red, resembling red arsenic. It is found in small lumps,

red, resembling red arsenic. It is found in small lumps, of an indeterminate figure, and also crystallized four-sided rhomboidal prisms.

Combined with carbonic acid, it forms the sparry lead ore, so called because it has the texture and crystallization of certain spars. There are a great many varieties of this kind. It is found also united with sulphuric phosphoric, arsenic, molybdic, and chromic acids Lastly, lead is found mineralized by sulphur, forming what is called galena (sulphuret of lead), which is by far its most abundant ore. This ore, which is very common, is found both in masses and crystals. The primitive form of its crystals is a cube. Its colour is of a bluish lead gray. It has a considerable metallic lustre, its texture is foliated. It stains the fingers, and often feels texture is foliated. It stains the fingers, and often feels greasy. It contains in general a minute quantity of silver.

greasy. It contains in general aminute quantity of silver. Properties of Lead.—Lead is of a buish-white colour, and very brilliant when fresh cut. It is malleable. It soon tarnishes in the atmosphere. It may easily be cut with a knife, and stains the fingers buish-gray when rubbed. It fuses at 612° Fahr, and renders other more refractory metals fusible. It becomes virified in a strong and continued heat, and vitrified various other metals. It is the least elastic of all the metals. It is very laminable, but it possesses very little ductility. Its specific gravity is 11.435. It crystallizes by cooling in small octahedra. When fused in contact with air, its surface first becomes vellow, and then red. by cooling in small outshedra. When fused in contact with air, its surface first becomes yellow, and then red. It unites by fusion with phosphorus and sulphur. The greater part of the acids act upon it. The sulphuric acid requires the assistance of a boiling heat. Nitric acid its decomposed by it. Muriatic acid acts very weakly on it. Acetic acid dissolves it. Fluoric acid attacks it by heat, and slightly in the cold. It combines with other metals, but few of its alloys are applied to any use. When combined with mercury, it forms a crystallizable alloy which becomes fluid when triturated with that of hismult. of bismuth.

of bismuth.

Method of obtaining Lead.—In order to obtain lead
in a greatway, the ore is picked from among the extraneous matter with which it was naturally mixed. It is
then pulverized and washed. It is next roasted in a
reverberatory furnace, in which it is to be agitated, in
order to bring the whole in contact with the air. When the external parts begin to soften, or assume the form of a paste, it is covered with charcoal, the mixture is stirred, and the heat increased gradually; the lead then runs on all sides, and is collected at the bottom of the furnace, which is perforated so as to permit the metal to flow into a receptacle defended by a lining of charcoal.

flow into a receptacle defended by a liming of charcoal.

The scorie remaining above in the furnace still retain a considerable proportion of lead; in order to extract it, the scorie must be fused in a blast furnare. The lead is by that means separated, and cast into iron moulds, each of which contains a portion called a pig of lead. These pigs are sold under the name of ore lead, and the solution be decomposed by adding to it, gradually, a solution of sulphate of soda, so long as a precipitate ensues. This precipitate, which is sulphate of lead, must then be collected on a filter, washed repeatedly in distilled water, and then dried. In order to reduce it to its metallic state, let it be mixed with two or three times its weight of black flux, introduce the mixture into a crucible, and expose it briskly to a red heat.

"There are certainly two, and perhaps three oxides of lead.—

of lead:—

1. The powder precipitated by potassa from the solution of the nitrate of lead, being dried, forms the LAXATOR TYMPANI. Externus mallei, of Albinus;
Anterior mallei, of Winslow; Obliquus auris, of Douglas; Externus auris voi laxator internus, of I vellow protoxide. When somewhat vitrified, it constitutes litharge, and combined with carbonic acid, | faces, and scrofulous sores, and as eye-washes. In white-lead or ceruse.

When massicot has been exposed for about 48 hours to the flame of a reverberatory furnace, it becomes red-lead, or minium.

3. If upon 100 parts of red-lead we digest nitric acid of the sp. gr. 1.26, 92.5 parts will be dissolved, but 7.5 of a dark brown powder will remain insoluble. is the peroxide of lead.

Chloride of lead is formed, either by placing lead in chlorine, or by exposing the muriate to a moderate heat. It is a semi-transparent, grayish-white mass, somewhat like horn, whence the old name of plumbum

The iodide is easily formed, by heating the two constituents. It has a fine yellow colour. It precipitates when we pour hydriodate of potassa into a solution of

nitrate of lead.

The salts of lead have the protoxide for their base, and are distinguishable by the following general cha-

racters: 
1. The salts which dissolve in water, usually give colourless solutions, which have an astringent sweetish taste.

2. Placed on charcoal they all yield, by the blowpipe, a button of lead.

3. Ferroprussiate of potassa occasions in their solutions a white precipitate.

4. Hydrosulphuret of potassa, a black precipitate.
5. Sulphuretted hydrogen, a black precipitate.
6. Gallic acid, and infusion of galls, a white precipitate.

7. A plate of zinc, a white precipitate, or metallic

Most of the acids attack lead. The sulphuric does not act upon it, unless it be concentrated and boiling. Sulphurous acid gas escapes during this process, and the acid is decomposed. When the distillation is car-ried on to dryness, a saline white mass remains, a small portion of which is soluble in water, and is the sulphate of lead; it affords crystals. The residue of the white mass is an insoluble sulphate of lead.

Nitric acid acts strongly on lead.

The nitrate solution, by evaporation, yields tetrahedral crystals, which are white, opaque, and possess considerable lustre.

A subnitrate may be formed in pearl-coloured scales by boiling in water equal weights of the nitrate and protoxide

Muriatic acid acts directly on lead by heat, oxidizing

It, and dissolving part of its oxide.

The acetic acid dissolves lead and its oxides: though probably the access of air may be necessary to the solution of the metal itself in this acid, white-lead, or ceruse, is made by rolling leaden plates spirally up. so as to leave the space of about an inch between each coi, and placing them vertically in earthen pots, at the bottom of which is some good vinegar. The pots are to be covered, and exposed for a length of time to a gentle heat in a sand-bath, or by bedding them in dung. The vapour of the vinegar, assisted by the tendency of the lead to combine with the oxygen which is present, corrodes the lead, and converts the external portion into a white substance which comes off in flakes, when the lead is uncoiled. The plates are thus treated repeatedly, until they are corroded through. Ceruse is the only white used in oil paintings. Commonly it is adulterated with a mixture of chalk in the shops. It may be dissolved without difficulty in the acetic acid, and affords a crystallizable salt, called sugar of lead, from its sweet taste. This, like all the preparations of lead, is a deadly poison. The common sugar of lead is an acetate; and Goulard's extract, made by boiling litharge in vinegar, a subacetate. The power of this salt, as a coagulator of mucus, is superior to the other. If a bit of zinc be suspended by brass or iron wire, or a thread, in a mixture of water and the acetate of lead, the lead will be revived and form an arbor saturni

The acetate, or sugar of lead, is usually crystallized in needles, which have a silky appearance

The schacetate crystallizes in plates. The sulphurct, sulphate, carbonate, phosphate, arseniate, and chromate of lead are found native.

When lead is alloyed with an equal weight of tin, or perhaps even less, it ceases to be acted on by vinegar. Acetate and subacetate of lead in solution, has been used as external applications to inflamed sur-

ome extreme cases of hamorrhagy from the lungs and bowels, and uterus, the former salt has been prescribed, but rarely, and in minute doses, as a corrugant or astringent. The colic of the painters, and that formerly tringent. The colic of the painters, and that formerly prevalent in certain counties of England, from the lead used in the cider presses, show the very deleterious operation of the oxide, or salts of this metal, when habitually introduced into the system in the minutest quantities at a time. Contraction of the thumbs, paralysis of the hand, or even of the extremnics, have not unfrequently supervened. A course of sulphuretted hydrogen waters, laxatives, of which sulphur, castor oil, sulphate of magnesia, or calomel, should be preferred, a mercurial course, the hot sca-bath, and electricity, are the appropriate remedies

Dealers in wines have occasionally sweetened them, when acescent, with htharge or its salts. This delete-rious adulteration may be detected by sulphuretted hydrogen water, which will throw down the lead in the state of a dark brown sulphuret. Or, subcarbonate of ammonia, which is a very delicate test, may be employed to precipitate the lead in the state of a white carbonate; which, on being washed and digested with sulphuretted hydrogen water, will instantly become black. If the white precipitate be gently heated, it will become yellow, and, on charcoal before the blowpipe, it will yield a globule of lead. Chromate of potassa will throw down from saturnine solutions, a beautiful orange-yellow powder. Burgundy wine, and all such as contain tartar, will not hold lead in solution, in consequence of the insolubility of the tartrate.

The proper counter-poison for a dangerous dose of sugar of lead, is a solution of Epsom or Gauber salt, liberally swallowed; either of which medicines instantly converts the poisonous acetate of lead into the inert and innoxious sulphate. The sulphuret of potassa, so much extolled by Navier, instead of being an antidote, acts itself as a poison on the stomach.

Oils dissolve the oxide of lead, and become thick and consistent; in which state they are used as the basis of plasters, cements for water-works, paints, &c.

Sulphur readily dissolves lead in the dry way, and produces a brittle compound, of a deep gray colour and brilliant appearance, which is much less fusible than lead itself; a property which is common to all the combinations of sulphur with the more fusible metals.

The phosphoric acid, exposed to heat together with charcoal and lead, becomes converted into phosphorus, which combines with the metal. This combination does not greatly differ from ordinary lead: it is malleable, and easily cut with a knife; but it loses its brilliancy more speedily than pure lead; and when fused upon charcoal with the blowpipe, the phosphorus burns, and leaves the lead behind.

Litharge fused with common salt decomposes it; the lead unites with the muriant acid, and forms a yellow compound, used as a pigment. The same decompo-sition takes place in the humid way, if common sait be macerated with litharge; and the solution will contain

Lead unites with most of the metals. Gold and silver are dissolved by it in a slight red heat. Both these metals are said to be rendered brittle by a small admixture of lead, though lead itself is rendered more ductile by a small quantity of them. Platina forms a brittle compound with lead; mercury amalgamates with it; but the lead is separated from the mercury by agitation, in the form of an impalpable black sowder oxygen being at the same time absorbed. Copper and lead do not unite but with a strong heat. If lead be heated so as to boil and smoke, it soon disolves pieces of copper thrown into it; the mixture, when cold, is brittle. The union of these two metals is remarkably slight; for, upon exposing the massona heat no greater than the in achieb lond-matter, that and admissiparities. than that in which lead melts, the lead almost entirely runs off by itself. This process is called cliquation.
The coarser sorts of lead, which owe their brittleness and granulated texture to an admixture of copper, throw it up to the surface on being melted by a small heat. Iron does not unde with lead, as long as both substances retain their metallic form. Tin unites very easily with this metal, and forms a compound, which is much more fusible than lead by itself, and is, for this reason, used as a solder for lead. Two parts of lead and one of tin, form an adoy more fusible than either metal alone: this is the solder of the plumbers

Bismuth combines readily with lead, and affords a metal of a fine close grain, but very brittle. A mixture of eight parts bismuth, five lead, and three tin, will melt in a heat which is not sufficient to cause water to boil. Antimony forms a brittle alloy with lead. Nickel, cobalt, manganese, and zinc, do not unite with lead by

The preparations of lead used in medicines are:-1. Plumbi subcarbonas. See Plumbi subcarbonas.

2. Oxidum plumbi rubrum. See Minium.

3. Oxidum plumbi semivitreum. See Lithargyrus. 4. Acetas plumbi. See Plumbi acetas.

Liquor plumbi acetatis. See Plumbi acetatis liquor. 6. Liquor plumbi acetatis dilutus. See Plumbi acetatis liquor dilutus.

Lead, white. See Plumbi subcarbonas. LEAF. Folium. A laminar expansion LEAF. Folium. A laminar expansion of a plant generally of a green colour.

It is difficult, however, to define this universal and important organ of vegetables.

They are considered as the respiratory organs of

plants

Leaves are, for the most part, remarkable for their expanded form; their colour is almost universally green, their internal substance pulpy and vascular, sometimes very succulent, and their upper and under surfaces differ commonly in hue, as well as in kind or degree of roughness

In discriminating the species of plants, a knowledge of the various forms of leaves is of the utmost importance. Botanists, therefore, have paid particular attention to their names, which are derived either from their origin, distribution, situation, direction, insertion,

form, base, point, margin, surface, distribution of its vessels, nerves, expansion, substance, duration, com-

position, &cc.

A leaf consists of a thin and expanded part, which, in common language, is named the leaf, and a stalk called the petiols or petiolus. The surface of a leaf, superficies, or pagina, is distinguished into the upper part, or face, and the under part, or back, of the leaf. The base, or origin of the leaf, is that part next the stem or branch; the apez is the termination of the leaf; the margin or edge, the circumference; the disk, discum, is the middle part of the surfaces within the margin.

From their origin, we have the following terms :-1. Seminal; folia seminalia, which are the first leaves of the majority of plants, proceeding from seeds that have more than one seed-lobe; they are seen in Raphanus sativus, and Cannabis sativa

2. Radical, which spring directly from the root; as in Leontodon taraxacum, and Viola odorata.

3. Cauline, or stem-leaf. The Valeriana phu has

its radical leaves undivided, and the cauline leaves

4. Ramial, or branch-leaf, which are only described then they differ from those of the stem. The Sison when they differ from those of the stem. The Sison ammi has its radical leaves, linear; its cauline, setous;

and its branch leaves, tripinnate.

5. Axillary, when seated on joints or axillæ; as in Parthenium integrifolium.

6. Floral, when next the flower, and like the other

leaves; as in Lonicera caprifolium. From their distribution on the stem and branches, leaves are named,

7. Alternate, when not in pairs, and are given off in various directions, one after another; as in Malva ro-

tundifclia. 8. Opposite, when they appear directly on opposite sides of the stem, in pairs; as in Lamium album, and Urtica dioica,

Ornica and a. 9. Two-ranked; folia disticka, which implies that they spread in two directions, and yet are not regularly opposite at their insertion; as in Cupressus disticha, Taxus baccata, Pieus picca, and Lonicera symphori-

10. Bifarial, that is, 'wo-ranked, but given off from the side only of the branch; as in Carpinus betulus, and Fagus sylvatica

11. Unitateral, looking to one side only; as in Convallaria multiflora.

12. Scattered, irregular or without any order; as in Reseda luteola, and Sedum reflexum.

13. Decussate, crossing each other in pairs; crosslike; as in Euphorbia lathyris, and Crassula tetragona.

14. Imbricate, like tiles upon a house; as in Cupressus sempervirens, and Aloe spiralis.

15. Fasciculate, or tufted, when several spring from the same point; as in Pinus larix, and Berberis vul-

16. Stellate, star-leaved, whirled; several leaves

growing in a circle round the stem, without any reference to the precise number; as in Rubia tinctorum, Lilium martagon, Asperula odorata. In large natural genera it is necessary to mention the number; as in Galium.

17. Remote, when at an unusual distance from each other.

18. Clustered: crowded together: as in Antirrhinum

linaria, and Trientalis europea. 19. Binal, when there is only two on a plant; as in Galanthus nivalis, Scilla bitolia, and Convallaria

20. Ternal, three together; as in Verbena triphylla.
21. Quaternal, Quinal, &c., when four, five, or more are situated together; as in various species of Erica.

From their determinate direction, leaves are distinguished into.

22. Close-pressed; adpressa; when their upper surface is close to the stem; as in Thiaspi campestris, and Xeranthemum sesamoides. 23. Erect, when nearly perpendicular, or forming a very acute angle with the stem; as in Juneus articu-

latis, and Bryum unquiculatum.

24. Spreading, forming a moderately acute angle with the stem; as in Atriplex portulacoides, Nerium

with the stem; as in Atriplex porte oleander, and Veronica beccabunga. 25. Horizontal, spreading in the greatest possible

degree; as in Gentiana campestris, and Pelargonium patulum. 26. Ascending, rising gently, so as to be somewhat arched; as in Geranium nitifolium.

27. Recurved, reflexed, curved backward; as in Erica retorta, and Bryum pellucidum.
28. Reclined, depending, hanging downward towards

the earth; as in Cichorium intybus, and Leonurus cardiaca.

29. Oblique, twisted, so that one part is vertical, the other horizontal; as Allium obliquum, and Fritaliaria

30. Adverse, the upper surface turned to the meri-dian, not the sky; as in Lactuca scariola. 31. Resupinate, or reversed, when the upper surface is turned downward; as in Alstromeria pelegrina, and

Stæbe prostrata.

32. Revolute, having a spiral apex; as Dianthus carthusianorum, and barbatus.

33. Rooting, sending rootlets into the earth; as Asplenium rhizophylla.

34. Floating on the surface of the water; as in

Potamogeton nataus, and Nymphæa alba.

35. Submersed, demersed, immersed, under water; as Hottonia palustris, and Ranunculus aquatilis.

From their insertion, into, 36. Petiolate, leaves on footstalks; as Prunus cerasus, and Verbascum nigrum.

37. Sessile, without footstalk, lying immediately on the stem; as in Saponaria officinalis, and Pinguicula vulgaris.

38. Adnate, the upper surface adhering a little way to the branch; as in Xeranthemum vestitum.

39. Decurrent, when a lamellar part of the leaf runs down the stem, or branch; as in Carduus spinosus, and Verbascum thansus.

40. Connate, when two opposite leaves embrace, and are united at their bases; as in Cerastium perfoliatum, and Dipsacus laciniatus.

41. Connato-perfoliate, when the union is in the whole or nearly the whole breadth of the leaves, so as to give the two leaves the appearance of being united into but one leaf; as in Eupatorium perfoliatum, and Connate leaves are, in some in-Lonicera dioica. stances, united by a membrane, which, stretching from the margins of the opposed leaves, near the base, forms a kind of pitcher around the stem, in which the rain is retained; as in Dipsacus fullonium.

42. Embracing, clasping the stem with their bases; as in Cardaus marianus, and Papaver somniferum

43. Vaginate, sheathing the stem at their bases, as in Canna indica, and Polygonum bistorta. 44. Peltate, when the footstalk is inserted, not into

the basis, but into the disk of the leaf, as in Drosera | lower leaves of the Centaurea cyanus, and Campanula peltata, and Tropæolum majus.

45. Perfoliate, when the stem runs through the leaf;

as in Bupleurum rotundifolium, and Uvularia perfo-

46. Articulate, one leaf growing out of the apex of another; as Cactus opuntia, and Cactus ficus indica. From the basis of the leaf, it is called,

47. Cordate, heart-shaped, or ovate, hollowed out at

the base; as Arctium lappa, and Tamus communis.

48. Arrow-shaped, triangular, hollowed out very much at the base; as Rumex acetosa, and Sagittaria sagittifolia.

sagittions.

49. Hastate, halberd-shaped, triangular, hollowed out at the base and sides, but with spreading lobes; as in Arum maculatum, and Rumex acetosella.

50. Rentform, kidney-shaped, a short, broad, round-sh leaf, the base of which is hollowed out; as Asarum

europeum, and Glecoma hederacea.

Auricled, furnished at its base with a pair of leaflets, properly distinct, but occasionally joined with it : as in Citrus aurantium.

Linnæus uses the term appendiculatum, which is correct.

52. Unequal, the basis larger on one side than the other; as in Tilia europea, and Piper tuberculatum.

The form of the apex of a leaf, gives rise to the

following names

53. Acute, sharp, ending in an acute angle, which is common to a great number of plants; example in Linum angustifolium, and Campanula trachelium.

54. Acuminate, pointed, having a taper, or awl-shaped point; as Arundo phragmitis, and Syringa

55. Cuspidate, or mucronate, sharp pointed, tipped with a rigid spine, as in the thistles, and Ficus religiosa

56. Obtuse, blunt, terminating in a segment of a circle: as Rumex obtusifolius, and Hypericum quadrangulum.

57. Retuse, ending in a broad, shallow notch; as in Ervum ervilia, and Rumex digynus.

58. Pramorse, jagged pointed, as if bitten off: John the various irregular notches; as in Hibiscus premorsus, and Swartz's genus Aéride.

59. Truncate, an abrupt leaf, with the extremity cut off, as it were, by a transverse line; as in Liriodendron

tulipifera.

- 60. Dedaleous, with a broad, incised, and crisp apex; as in Aspienium scolopendrum.
  61. Emarginate, nicked, having a small notch at the summit; as Hydrocotile vulgaris, and Euphorbia tu-
- 62 Summit-cut,-folia apice incisa; as in Glinko biloha.

63. Cirrhose, tipped with a tendril; as in Lathyrus articulatus, and Gloriosa superba.

64. Tridentate, three-toothed; an obtuse point, be-set with three teeth; as in Buchera æthiopica, and Genista tridentata.

65. Ascidiate, or pitcher-leaf, a cylindrical tube, filled with water; as in Nepenthes distillatoria, and Saracenia.

The names derived from the margin of the leaf, are, 66. Entire, not divided; as in Tragopogon pratense, and porrifolium.

67. Very entire, integerrima, the margin void of irregularity; as Citrus aurantium.
68. Undulate, when the disk near the margin is waved obusely up and down; as in Panicum hirtel-

tuin, and Reseda lutea.

69. Crenate, notched, when the teeth are rounded, and not directed towards either end of the leaf; as in Betonica officinalis, and Scutellaria galericulata

70. Doubly crenate, the greater teeth, notched with smaller ones; as in Salvia sclara, and Ranunculus auricomus.

71. Serrate, when the teeth are sharp, and resemble T1. Serrate, when the teeth are snarp, and resemble those of a saw, pointing towards the extremity of the leaf; as in Sedam telephium.

72. Anately serrate; as in Thymus acinos.

73. Obtusely serrate, in Ballota nigra.

74. Doubly serrate, having a series of smaller serratures integmixed with the larger; as in Rubus frutico-

sus, and Campanula trachelium.
75. Dentate, toothed, beset with projecting, horizon-

tal, rather distant, teeth of its own substance; as the

trachelium.

76. Jagged, irregularly cut or notched, especially when otherwise also divided; as in Salvia athiopia, and Senecio squalidus.

77. Cartilaginous-edged, hard, and hoary: as in 78. Prickle-edged, beset with prickles; as in Carduus lanceolatus, and liex-aquifolium.
79. Fringed, bordered with soft parallel bairs; as in

Sempervivum tectorum, and Galium cruciatum. From the openings, or sinuses, in the margin.

80. Sinuated, cut as it were into rounded, or wide openings; as in Quercus robur, and Alcea rosea.

81. Repand, wavy, bordered with numerous angles and segments of circles, alternately; as in Menyanthes

nymphoides, and Erysimum alliaria. 82. Pinnatifid, cut transversely into several oblong parallel segments; as in Centaurea calcitrapa, and

Scabiosa arvensis. 83. Bipinnatifid, doubly pinnatifid; as in Papaver

argemone.

84. Lyrate, lyre-shaped, cut into several tranverse segments, gradually larger towards the extremity of the leaf, which is rounded; as in Geum urbanum, and Erysimum barbarea.

85. Panduriform, fiddle-shaped, oblong, broad at the two extremities, and contracted in the middle; as in Rumex pulcher, and Convolvulus panduratus.

86. Runcinate, lion-toothed, cut into several transverse, acute, segments, pointing backwards; as in Le-ontodon taraxacum, and Erysimum officinale.

87. Laciniate, cui into numerous irregular portions; as in Ranunculus parviflorus, and Geranium columbi-

num, and Cotyledon laciniata. 88. Squarrose, the margin beset with a rough fringe;

Squarrose, the margin beset with a rough tringe; as in Centaurea calcitrapa, and Cardous marianus.
 Partite, deeply divided nearly to the basis; as in Helleborus viridis; bipartite, tripartite, and multipartite, according to the number of the divisions.
 Trifd, divided into three; as in Bidens tripartita.
 Quanquiftd, divided into five; as in Geranium

maculatum. 92. Multifid, the margin of round leaves cut from the apex almost to the base, without leaving any great intermediate sinuses; as in Aconitum napellus, and Cu cumis colocynthis.

From the angles in the margin of the leaf, 93. Rounded, the margin not having any angle. 94. Angulate, the margin having acute angles.

a. Triangular; as in Chenopodium bonus henricus, and Atripiex hortensis.

b. Quinqueangular; as in Geranium peltatum.
c. Septangular; as in Hibiscus abelmoschus.
95. Rhomboid, trapeziform, or approaching to a
square; as in Chenopodium vulvaria, and Trapa

96. Quadrangular, with four angles; as in Liriodendron tulipifera.

97. Deltoid, trowel-shaped, having three angles, of which the terminal one is much farther from the base, than the lateral ones; as in Mesembryanthemum deltoideum, and Populus nigra.

98. Lobate, when the margins of deep segments are rounded, hence:

b. Three-lobed; as in Bauhinia porresta.
b. Three-lobed; as in Anemone hepatica.
c. Five-lobed; as in Humulus lupulus, and Acer pseudo-platanus.

99. Palmate, cut into several oblong, nearly equal segments, about half way, or rather more, towards the base, leaving an entire space like the palm of the hand; as in Passiflora corvulea, and Aleca ficifolia.

From the figure of the circumference, are derived the following names:

100. Orbiculate, circular, the length and breadth of which are equal, and the circumference in an even circular line; as in Cotyledon orbiculata and Hydrocotyle vulgaris.

101. Subrotund, roundish: as in Pyrola, and Malva rotundifolia.

102. Oblong, three or four times longer than broad:

as in Musa sapientum, and Eleagnus orientalis.

103. Ovate, of the shape of an egg, cut length wise, the base being rounded, and broader than the extremity; as in Origanum vulgare, and Inula he

104. Obovate, of the same figure, with the broader end uppermost; as in Primula veris, and Samulus valerandi.

104\*. Oval, ovate, but each end has the same round-

ness; as in Rhus catious, and Manmea americana.

105. Elliptical, oval, the longitudinal drameter being greater than the transverse.

106. Parabolic, oblong, the summit narrow and as in Marrubium pseudodictamnus

107. Cuneiform, wedge-shaped, broad and abrupt at the summit, and tapering down to the base; as Saxi-

fraga cuneifolia, and Iberis semperflorens.

108. Spatulate, of a roundish figure, tapering to an

oblong base; as in Cotyledon spuria, and Cucubalus

109. Lanceolate, of a narrow, oblong form, tapering towards each end; as in Plantago lanceolata.

110. Linear, narrow, with parallel sides; as in Senecio linifolius.

111. Capillary, long, fine, and flexible, resembling a hair; as in Anethum fæmculum, and Graveolens

Setaceous, bristly; as in Asparagus officinalis, and Scirpus setaceus.

113. Acerose, needle-shaped, linear, and evergreen. generally acute and rigid; as in Pinus sylvestris, and Juniperus communis.

From the difference of the surface of leaves : 114. Glabrous, smooth, without roughness; as the

leaves of most plants.

115. Nitid, smooth and shining; as in Laurus nobilis, and Canna indica. 116. Lucid, as it covered with a varnish; as in

Angelica lucida, and Royena lucida.

117. Viscid, covered with a clammy juice: as in Senecio viscosus, and Erygeron viscosum

118. Naked, without bristles, or hairs; as the leaves of many plants.

119. Scabrous, or asporous, with little roughness visible, as well as tangible; as in Morus nigra, and Humulus lupulus.

120. Punctuate, dotted, perforated with little holes; as in Hypericum perforatum.

121. Pertuse, bored, naturally having large perfora-

tions; as in Dracontium pertusum. 122. Maculate, spotted; as in Orchis maculata, and

Pulmonaria officinalis. 123. Coloured, being of any other than a green colour; as in Amaranthus tricolor, and Atriplex hor-

tensis rubra. 124. Hoary, having a whitish mealy surface; as in

Populus alba 125. Lineate, having superficial lines: as in Scripus

maritimus. 126. Striate, marked with coloured lines; as in Pha-

laris arundinacea 127. Sulcate, furrowed, having broad and deep fur-

rows; as in Digitalis ferruginea.
128. Rugose, rugged; as in Salvia sclara.
129. Bullate, blisiered, a greater degree of the last; as in Brassica oleracea.

130. Papulous, or vesiculous, covered with hollow as in Mesembryanthemum crystallinum 131. Papillose, or Varicose, covered with solid wart-

like tubercles; as in Aloe margaritifera.

132. Glandular, covered with small glandiform bodies; as in Salix alba, and Prunus padus. From the distributions of the vessels on the surface

of the leaf, Nerves are white, elevated chords, which originate

from the base of the leaf. A rib is the middle nerve, thick, and extending from

the basis to the apex of the leaf. Veins are anastomosing vessels which are given off

from the costa or rib.

The greater clusters of vessels are generally called nervi or costa, nerves or ribs, and the smaller vena, whether they are branched or reticulate, simple or otherwise.

133. A nervous or ribbed leaf is where they extend in simple lines from the base to the point; as in the Convallaria, and Helianthus annuus. The Laurus camphora is an example of a truerve; the Smilax tetragona

has five nerves; the Dioscorea septemioba, seven.

134. When a pair of large ribs branch off from the main one above the base, and run in a straight line towards the apex, as in Helianthus tuberosus, the leaf is said to be triple nerved.

135. When two go from the base and four from the costa in a straight line, it is termed folium quintupli-

136. Venous, veiny, when the vessels by which the leaf is nourished are branched, subdivided, and more or less prominent, forming a net-work over either, or both its surfaces; as in Clusia venosa, and Verbascum lychritis.

137. Avenial, or veinless, when without veins; as in Clusia alba, and rosea.

138. Enervous, ribless, when no nerve is given off from the base; as in Asperula levigata

The terms from the expansion of the leaves are,

139. Flut, as most leaves are.

140. Concave, hollow, depressed in the middle; as in Saxifraga stolonifera.

141. Convex, the reverse of the former; as in Ocymum basilicum majus.

142. Canaliculate, channelled, having a longitudinal furrow; as in Plantago maritima.

143. Cucullate, hooded, when the edges meet in the

lower parts, and expand in the upper; as in Geranium cucullatum, and that curious genus Saracenia. 144. Plicate, plaited, when the disk of the leaf, cspe

cially towards the margin, is acutely folded up and down; as in the Maivas, and Alchemilla vulgaris.

145. Undulate, waved, when the disk near the margin

is waved obtusely up and down; as in Reseda lutea, and Ixia undulata

146. Crisp, curled, when the border of the leaf becomes more expanded than the disk, so as to grow elegantly, curled, and twisted; as in Malva crispa. rom the internal substance :

147. Membranaceous, when there is scarcely any pulp between the external membranes of the leaf; as in Citrus aurantium, and the leaves of many plants. 148. Thick, the membranes being rather more than

usually firm; as in Sedum telephium.

149 Carneous, fleshy, of a thick substance, as in all

those called succulent plants; as Crassula lactea, and Sempervivum tectorum.

150. Pulpy, very thick, and of the consistence of a plumb; as in Mesembryanthemum verruculatum.
151. Tubular, hollow within; as in Allium cepa.
The leaf of the Lobelia dortmanna is very peculiar, in consisting of a double tube.

152. Compact, not hollow. 153. Rigid, easily broken on being bent; as in Sta-

The thick leaves, folia crassa, afford the following

154. Gibbous, swelling on one side, or both, from excessive abundance of pulp; as in Crassula cotyledon, and Aloe retusa.

155. Round, cylindrical; as in Allium schenoprasum, and Salsola sativa.

156. Subulate, awl-shaped, tapering from a thickish base to a point; as in Allium ascalonicum, and Narcissus jonquilla. 157. Compressed, flattened laterally; as in Cacalia

158. Depressed, flattened vertically; as in Crassula

159. Triquetral, thick and triangular; as in Butomus umbellatus.

160. Tetragonal, quadrangular and awi-shaped; as in Gladiclus tristis.

161. Lingulate, tongue-shaped, a thick, oblong, blunt figure, and a little convex on its inferior surface; as in Mesembryanthemum linguiforme

162. Ancipital, two-edged; as in Typha latifolia. 163. Ensiform, sword-shaped, two edges tapering to a point, slightly convex on both surfaces, neither of

which can properly be called upper or under; as in Iris germanica, and Gladiolus communis. 164. Carinate, keeled, when the bark is longitudinally

prominent; as in Allium carinatum, and Narcissus biflorus.

165. Acinaciform, scimitar-shaped, compressed with one thick and straight edge, the other thin and curved; as in Mesembryanthemum acinaciforme. 166. Dolabriform, hatchet-shaped, compressed with

a very prominent dilated keel, and a cylindrical base; as in Mesembryanthemum dolabriforme.

167. Uncinate, hooked, flat above, compressed at its des, and turned back at the apex, forming a hook. When the shape of membranaceous leaves is

imperfect, the particle sub is attached, as sub-sessile,

the ovate, sub-pilous, &c.
When the shape is reversed, by the prefixing the preposition ob, as ob-cordate, when the point is inserted into the petiole, ob-cordate, &c.

From the coadunation, leaves are designated by pre-

fixing the prominent stape, as lanceolato-onate; as in Nicotiana tabacum: and ovato-lanceolate, lanceolate, but swelling out in the middle; as in Saponaria officinalis.

From their duration, leaves are termed, 168. Deciduous, falling off at the approach of winter, as in most European trees and shrubs.

169. Caducous, failing off in the middle of summer.

170. Perennial, green the whole year, and falling off as the new ones appear.

171. Persistant, lasting many years, and always

as in Pinus and Taxus.

All the foregoing terms belong to simple leaves, or those which have one leaf only on the petiole or foot-

The following regard compound leaves, or such as consist of two or any greater number of foliola, or leaflets, connected by a common footstalk.

172. Digitate, fingered, when several leaflets proceed from the summit of a common footstalk; as in

Trifolium pratense

173. Pinnate, when several leaflets proceed late-rally from one footstalk, instead of being supported at

the top; as in Acacia pseudocacia.

A digitate leaf is called, after its mode of digitation, 174. Conjugate, or yoked, when there is one pair of leaflets, or pinna; as in Zygophillum fabago.

175. Brante, when the pair of leastlets unite somewhat at their base; as in Lathyrus sylvestris.
176. Ternate, where there are three leastlets; as in Trifolium pratensis, and Oxalis acetosella.

177. Quinate, there being five leaflets; as in Potentilla reptans, and Lupinus albus.

178. Septenate, with seven; as in Æsculus hippo-

castanum.

179. Novenate, nine; as in Sterculia fætida.

180. Pedate, a peculiar kind of leaf, being ternate, with its lateral leaflets compounded in their forepart; or a leaf with a bifid footstalk, divided into two di verging branches, with an intermediate leaflet, and

verging branches, with a methicular leaflets, and each supporting two or more lateral leaflets on their anterior edge; as in Helleborus niger.

181. Articulate, jointed, when one, or a pair of leaflets, grows out of the summit of shother, with a sort of joint; as in Cactus ficus indica, and Fagara transies. godes.

Pinnate leaves are called from their number of

182. Bipinnate, or duplicato-pinnate, doubly pinnate; as in Tauacetum vulgare.
183. Tripinnate, or triplicato-pinnate, three pinnate;

in Scandix odorata.

From the number of pairs, pinnate leaves are

184. Biguga; as in Mimosa nodosa. 185. Triguga; as in Cassia emarginata

186. Quadriguga; as in Cassia longisiliqua.

187. Quinquiguga; as in Cassia occidentalis.
188. Multiguga; as in Cassia javanica.
The difference in the termination of a pinnate leaf, 189. Impari-pinnate, with an odd or terminal leaflet; as Rosa centifolia.

190. Abrupti-pinnato, with a terminal leaflet, as in

Orobus tuberosus.

191. Cirrhosi-pinnate, when furnished with a tendril in place of an odd leaflet; as in the pea and vetch

From the mode of adhesion of the leaflets arise 192. Oppositely-pinnate, when the leaflets are opposite, or in pairs: as in Sium angustifolium.

193. Alternately-pinnate, when alternate; as in Vi-

cia sativa.

194. Interruptedly-pinnate, when the principal leaflets are arranged alternately with an intermediate 
series of smaller ones; as in Spiraea ulmaria.

195. Decurrently-pinnate, when the leaflets are decurrent; as in Eryngium campestre.

196. Jointedly-pinnate, with apparent joints in the 
common footstalk; as in Fagara tragodes.

197. Petiolato-pinnate, the leaflets on footstalks; as 
In Robinia pseudacacia. cia sativa

198. Alate-pinnate, when the footstalk has little wings between the leaflets.

199. Sessile-pinnate, with leaflets within any petiole

200. Conjugate-pinnate, confluent: the leaflets growing somewhat together at their margins.

From their bipinnation, pinnate leaves are,

201. Bigeminate, two-paired; as in Mimosa unguis

202. Trigeminate, or triplicate-geminate, thrice-paired; as in Mimosa tergemina.

From the tripinnation,

203. Doubly-ternate, or duplicato-ternate, when the common footstalk supports these secondary petioles on its apex, and each of these supports three leaflets; as in Epimedium alpinum.

in Epineurum appilum.

204. Triternate, or triplicato-ternate, when the common petiole supports on its apex three secondary footstalks, each of which supports three ternary one and every one of these three leaflets; as in Aquilegia vulgaris, and Fumaria enneaphylla.

205. Multiplicato-pinnate, there being more than three orders; as in Ruta hortensis.

Pinna are the leaflets of pinnate leaves.

206. Pinullæ, the leaflets of the double and triple range of pinnate leaves.

LEÆNA. (From λεαινα, a lioness.)

The lioness

2. The name of a plaster, so called from its great

LEAKE, JOHN, was born in Cumberland, and, after ualifying himself as a surgeon in London, travelled to Portugal and Italy. On his return he settled in the metropolis, and published a dissertation on the Lisbon metroponis, and published a dissertation on the Lisbon Diet Drink. He not long after became a licentiate of the College of Physicians, and began to lecture on Midwifery. In 1765, he originated the plan for the Westminster Lying-in Hospital, and purchased a piece of ground for the purpose. His death occurred in 1792. He published a volume of "Practical Observa-tions on Child-bed Fever:" "Medical Instructions, concerning the Diseases of Women;" in two volumes, which passed through several editions; and some

LE CLERC, DANIEL, was born at Geneva, in 1652. His father being professor in the Greek language, instructed him in the rudiments of knowledge, and gave structed him in the rudiments of knowledge, and gave him a taste for researches into antiquity. He after-ward studied at different universities, and took his me-dical degree at Valence, at the age of 20. Returning to his native city, he soon got into considerable prac-tice; which he at length relinquished in 1704, on be-ing appointed a member of the council of state, and that he might complete his various literary underthat he might complete his various literary under-takings, which had already greatly distinguished him. His death occurred in 1728. He had published, in conjunction with Mangets, a "Bibliotheca Anatonica," in two volumes, 1625. But his most celebrated work is the "Histoire de la Médécine," from the earliest times to that of Galen. which evinces immense erudition. He afterward addea a plan for continuing it to the middle of the 17th century. But Dr. Freind has completed this part of the task on a much better method. Le Clerc also published an account of certain worms occurring in men and animals.

LE DRAN, HENRY FRANCIS, was born at Paris, in

worms occurring in men and animals.

LE DRAN, HENRY FRANCIS, was born at Paris, in 1685, and educated under his father, who had acquired reputation as an operator, particularly in removing cancers of the breast. The young surgeon turned his attention principally to lithotomy, which he performed in the lateral method, and made some valuable improvements; which he communicated to the public in 1730, giving an accurate description of the parts: the work was favourably received, has been frequently reprinted, and translated into most modern languages. His surviced observations contain also much valuable reprinted, and translated into most modern languages. His surgical observations contain also much valuable practical matter: and his Treatise on Gun-shot Wounds is remarkable for the bold and successful measures which he adopted. He published likewise a Treatise on Operations, another called Surgical Consultations, and sent several papers of considerable merit to the academy of surgeons, which appear in their memorits. He died in 1770.

merit to the academy of surgeons, which appears their memoirs. He died in 1770.

LE'DUM. (A name adopted from the Greeks whose ληδον is generally believed to be a species of Cistus.) The name of a genus of plants in the Linnau system. Class, Decandria; Order, Monogynia.

LEDUM PALUSTRE. The systematic name of the would not subsist in oil, as, by it, these would be Rosmarinus sylvestris, and Cistus ledon of the shops. stopped up. The plant has a bitter subastringent taste, and was formerly used in Switzerland in the place of hops. Its medicinal use is confined to the Continent, where it is

meuternatuse is commed to the Continent, where it is occasionally given in the cure of hooping-cough, sore throat, dysentery, and examinematous diseases.

[\*LEE, ARTHUR, M. D. was a native of Virginia, and brother to Richard Henry Lee the celebrated patrot of the revolution. Dr. Lee received his classical education at Edinburgh, and afterward studied medicine in the University. tion at Edinourgi, and anerward stored medicine in that University. As soon as he was graduated he're-turned to his native state, and settled at Williamsburgh, where he practised medicine for several years; but af-terward, abandoned the profession, went to England, and commenced the study of the law in the Temple.

He soon after entered into political life, and rendered important services to his country during the Revolu-tionary war. To the abilities of the statesman, he is said to have united the acquisitions of the scholar. In the year 1775, Dr. Lee was in London as the agent of Virginia, and he presented in August the second petition to the king. All his exertions were now directed to the to the king. All his exertions were now directed to the good of his country. He was appointed minister to France in 1776; and he was for many subsequent years engaged in the affairs of the public until the close of life, which, after a short iliness, took place December 14th, 1792, at Urbanna, in Middlesex county, Virginia. He was a man of uniform patriotism, of sound understanding, of great probity, of plain manners and strong passions. During his residence in England for a number of years, he was infectiveable in his every

strong passions. During his residence in England for a number of years he was indetatigable in his exertions to promote the interests of his country. He was a member of the American Philosophical Society. He published the Monitor's Letters in vindication of the colonial rights in 1769; Extracts from a letter to the President of Congress in answer to a libel by Silas Deane, 1780; and observations on certain commercial transactions in France laid before Congress, 1780."—Thack Med. Rigg. A.

Thach. Med. Biog. A.]
LEECH. Hirudo. A genus of insects of the order LEECH. Hiraco. A general representation of back-vermes. The body moves either forward or back-ward. There are several species, principally distin-guished by their colour; but that most known to me-dical men is the hiraco medicinalis, or medicinal leech, which grows to the length of two or three inches. The body is of a blackish-brown colour, marked on the back with six yellow spots, and edged with a yellow line on each side; but both the spots and lines grow faint, and almost disappear at some seasons. The head is smaller than the tail, which fixes testly very firmly to any thing the creature pleases. It seasons. The head is smaller than the tail, which fixes 'teself very firmly to any thing the creature pleases. It is viviparous, and produces but one young one at a time, which is in the month of July. It is an inhabitant of clear running waters, and is well known for its use in bleeding. The species most nearly approaching this way which is the versessory of distinguish in the of clear running waters, and is well known for its use in biseding. The species most nearly approaching this, and which it is necessary to distinguish, is the hirudo sanguisuga, or horse-leech. This is larger than the former; its skin is smooth and glossy; the body is depressed, the back is dusky; and the belly is of a yellowish-green, having a yellow lateral margin. It inhabits stagnant waters.

The leech's head is armed with a sharp instrument that makes three wounds at once. They are three

that makes three wounds at once. They are three sharp tubercles, strong enough to cut through the skin sharp tubercles, strong enough to cut through the skin of a man, or even of an ox, or borse. The mouth is, as it were, the body of the pump, and the tongue, or fleshy nipple, the sucker. By the working of this piece of mechatism, the blood is made to rise up to the conduit which conveys it to the animal's stomach, which is a membranaccous skin, divided into twenty-four small cells. The blood which is sucked out is there preserved for several months, almost without coagulating, and proves a store of provision for the animal. The nutritions parts, absorbed after digestion by animals, need not in this to be dispensaged from the by animals, need not in this to be disengaged from the heterogeneous substances; nor indeed is there an anus discoverable in the leech; mere transpiration seems to be all that it performs, the matter fixing on the surface of the body, and afterward coming off in small threads. Of this, an experiment may be tried, by putting a leech into oil, where it keeps alive for several days; upon being taken out, and put into water, there appears to loosen from its body a kind of slough, shaped like the creature's body. The organ of respiration though unascertained, seems to be situated in the mouth; for If, like an insect, it drew breath through vent-holes, it

stopped up.
The hurudo medicinalis is the only species used in The hirado medicinalis is the only species used in medicine; being applied to the skin in order to draw off blood. With this view they are employed to bleed young children, and for the purposes of topical bleeding, in cases or infinanmation, fulldess or pain. They may be employed in every case where topical bleedings are thought necessary, or where venesection cannot be performed. If the leech does not fasten, a drop of sugared milk is put on the spot it is wished to fix on; sugared milk is put on the spot it is wisbed to fix on; or a little blood is drawn by means of a slight puncture, after which it Immediately settles. The leach, when three his about the watched, lest it should find its way into the amis, when used for the hamorrhoids, or penetrate into the œsophagus, if employed to draw the gums; otherwise it might fix upon the stomach, or intestines. In such a case, the best and quickest remedy is to swallow some saft; which is the method practised to make it loose its hold, when it sucks longer than is intended. We exceed the relation of the property of a site of the property of intended. Vegetable or volatile alkali, pepper, or acids, also make it leave the part on which it was applied. Cows and horses have been known to receive leeches, Cows and horses have been known to receive necessary when drinking, into the throat; and the usual remedy is to force down some salt, which makes them fall off. If it is intended that the leech shall draw a larger quantity of blood, the end of the tail is cut off; and it quantity of mood, the end of the tail sea of a did in then sucks continually, to make up the loss it sustains. The discharge occasioned by the puncture of a leech after the animal falls off, is usually of more service than the process itself. When too abundant, it is easily stopped with brandy, vinegar, or other stypities, or with a compress of dry linen rags, bound strongly on the bleeding orifice. They are said to be very restless be-fore a change of weather, if confined in glasses, and to fix themselves above the water on the approach of a fine day.

As these little animals are depended on for the removal of very dangerous diseases, and as they often seem capriciously determined to resist the endeavours made to cause them to adhere, the following directions are added, by which their assistance may, with more certainty, be obtained.

The introducing a hand, to which any ill-flavoured medicine adheres, into the water in which they are kept, will be often sufficient to deprive them of life; the application of a small quantity of any saline matter to their skin, immediately occasions the expulsion of the contents of their stomach; and what is most to our purpose, the least flavour of any medicament that has been applied remaining on the skin, or even the accumulation of the matter of perspiration, will prevent them from fastening. The skin should, therefore, previous to their application, be very carefully cleansed from any foulness, and moistened with a little milk. from any foulness, and moistened with a little milk. The method of applying them is by retaining them to the skin by a small wine-glass, or the bottom of a large pill-box when new will, in general, in a little time, fasten themselves to the skin. On their removal, the rejection of the blood they have drawn may be obtained by the application of salt externally, but it is to be remarked, that a few grains of salt are sufficient for this purpose; and that covering them with it, as is sometimes done, generally destroys them.

LEEK. See Allium porrum.

LE'GNA. (From λεγνον, a fringed edge.) The extremities of the pudenda muliebria.

tremities of the pudenda mulieuria.

LEGU'MEN. From lego, to gather: so called because they are usually gathered by the hand.) A legume. A peculiar solitary fruit of the pea kind formed of two oblong valves, without any longitudina partition, and bearing the seeds along one of its mar-

From the figure, the legumen is called,

- 1. Teres, round; as in Phaseolus rudialus.
- Lineare; as in Phaseolus vexillatus.
- Compressum; as in Pisum satirum.
- Compression, as in Phaseolus mungo.
  Acinforme, as in Phaseolus mungo.
  Acinforme, as in Pous hirsulus, and gracus.
  Inflatum, a cavity filled with air; as in Astraga-
- lus vesicarius, and exscopus Cochleatum, spiral; as in Medicago polymorpha, and marina.

9. Lunatum; as in Medicago falcata. 10. Obcordatum; as in Polygala. 11. Contortum; as in Medicago sativa.

Quadrangulatum; as in Dolychos tetragonolo-

13. Canalicutatum, the upper suture deeply hollowed; as in Lathurus satirus.

14. Isthuus interceptum; as in Coronilla. 15. Echenatum; as in Citycyrrhiza echinata. 16. Rhombeum; as in Cicer arictinum.

From its insertion,

1. Pendulum ; as in Phascolus vulgaris. Pedrcellatum; as in Viscia sapium.

2. I cartettatum, as in Procta sa p. am. From its.substance, 1. Membranaceum; as in Phascolus rulgaris. 2. Carnosum; as in Cynometra caulifora. 3. Coriaceum, dry and fleshy; as in Cerutonia siliua, and Lupinus.

From the number of seeds,
1. Monospermum; as in Medicago lupulina.

1. monospermum; as in Medicago lupulina,
2. Dispermum; as in l'Iyene tomentosa.
3. Trispermum; as in Trifolium reflerum.
4. Tetraspermum; as in Trifolium lupinaster.
5. Polyspermum; as in Trifolium lupinaster.
["Legumine is a particular vegetable principle, obtained by M.H. Braconnot, from pease. When well washed it resembled paste; exposed to heat it liquefied without coagulating. Iodine, mixed with it in water, appeared to dissolve. It was insoluble in boiling water, and produced a deep blue colour with starch."—Web.

And produced a deep blue colour with starch."—Web. Man. of Chem. A.]

LEGUMINOUS. Appertaining to a legume.

LEILORSY CHIA. (From λειπω, to leave, and ψυχχη, life.) A swoon. See, δυρίπωρε.

LEILORSY CHIA. (From λειπω, toleave, and πυρ, heat.)

An ardent fever, in which the internal parts are much heated, while the external parts are cold.

LEILOTHY MIA. (From λειπω, toleave, and 3υμος, the mind.) See Leachhamin.

the mind.) See Lapothymia.

Le'Mz. (From λα, much, and μυω, to wink.) A constant winking of the eyes.

LEMERY, Nicholas, was born at Rouen in 1645, and brought up to the business of pharmacy. He went to Paris at the age of 21 to anprove himself, particubarly in chemistry; and then travelled for some years: after which, in 1672, he began to give chemical lectures at Paris, and became very popular. Three years after he published his "Cours de Chymie," which passed rapidly through numerous editions; and so great was his reputation, that he acquired a fortune by the sale of his preparations, some of which he kept secret. In 1681, he was interdicted from lecturing on account of his religious principles, and took shelter in this country; but shortly after obtained the degree of doctor of physic at Caen, and got considerable practice in the French metropolis; the revocation of the edict of Nantes, however, forbidding this employment also, he was teduced to such difficulties, that he at length adopted the Catholic religion. He then flourished again, and in 1697 published his "Pharmacopie Universelle," followed the year after by his "Dictionnaire Universel des Drogues simples," which, though with many imperfections, proved of considerable utility. On the re-establishment of the Academy of Sciences, he was made associate chemist, and read before that hody his naners on antimony, which were printed in 1707. He duced to such difficulties, that he at length adopted the papers on antimony, which were printed in 1707.

LEMERY, Louis, son of the preceding, was born at Paris in 1677, and intended for the law, but adopted such a partiality for his father's pursuits, that he was and a partiality for his father's pursuits, that he was allowed to indulge it, and graduated in his native city in 1696. Two years after, he was admitted into the Academy of Sciences; and in 1708 began to lecture on chemistry, in the royal garden; he was appointed physician to the Hôtel Dieu in 1710; and twelve years after purchased the office of King's physician, which soon led him to the appointment of consulting physician to the Queen of Spain. In 1731 he was appointed professor of chemistry in the royal garden; and subsequently communicated screently awares to the Academy. quently communicated several papers to the Academy of Sciences, which appeared in their Memoirs. He published also "Traité des Aliments," which was fre-quently reprinted; "A Dissertation on the Nourishment of Bones, refuting the Idea of its being effected by the Marrow; and "Three Letters on the Generation of Worms." He died in 1743.

LEMITHOCHO'RTON. See Corallina corsicana. LE MMA. (From λεπω, to decorticate.)

1. The bark of a tree. 2. The skin.

LE'MNIUS. (From Lemnos, whence it is brought.) See Bole

See Bate.

LEMON. See Citrus.

Lemon scurvy grass. See Cochlearia officinalis.

LENIF'NTIA. (From lenio, to assuage.) Mecines which abate irritation.

LENITIVE. (From lenis, gentle.) Medicines which

gently palliate diseases. A gentle purgative.

Lenitive electuary. A preparation composed chiefly
of senna and some aromatics, with the pulp of tama-

or senia and some aromatics, with the pulp of tamarinds. See Confectio senna.

LENS. (A lentore; from its glutinous quality.) 1.
The lentil. See Ervum lens.

2. See Crystalline lens.

LENTICULA. (Dim. of lens, a lentil.)

1. A smaller sort of lentil.

2. A freckle, or small pustule, resembling the seeds of lentil.

LENTICULAR. (Lenticularis; from lenticulaire, doubly convex. A surgical instrument employed for removing the jagged particles of bone from the edge of the perforation made in the cranium with the traphine. LENTICULA'RIA. (From lenticula.) A species of lentil

LENTI'GO. (From lens, a lentil: so named from its likeness to lentil-seeds.) A freckle on the skin.

LENTIL. An annual vegetable of the pulse kind, much used for improving the flavour of soups. See

LENTI'SCUS. (From lentesco, to become clammy; so called from the gumminess of its juice.) The mas-

LE'NTOR. (From lentus, clammy.) A viscidity

LENTOR. (From lenus, clammy.) A viscidity to siziness of any fluid.

LEONI'NUS. (From len, the lion.) An epithet of that sort of leprosy called leontiasis.

LEONI'ASIS. (From len, a lion: so called because it is said lions are subject to it.) A species of leprosy resembling the elephantiasis.

LEO'NTODON. (From \(\lambda\)\text{cw}, the lion, and \(\lambda\)\text{ow}\text{c}, a tooth: so called from its supposed resemblance.) The name of a genus of plants in the Linnaran system. Class, \(Syngcnesia\); Order, \(Polygamia\)\text{ avqualis.} The dandelion.

LEONTODON TARAXACUM. Dens leonis. The dan-delion or pissabed. Leontodon—caule squamis informa reflexis, poliis runcinatise denticulatis, leavibus, of Linneus. The young leaves of this plant in a blanched state have the taste of endive, and make an excellent addition to those plants eaten early in the spring as salads; and Murray informs us, that at Goettingin, the saids; and Murray informs us, that at Goettingin, the roots are roasted and substituted for coffee by the poorer inhabitants, who find that an infusion prepared in this way, can hardly be distinguished from that of the coffee herry. The expressed juice of dandelign is bitter and somewhat acrid; but that of the root is bitterer, and possesses more medicinal power than any other part of the plant. It has been long in repute as a detergent and aperient, and its diuretic effects may be inferred from the vulgar name; it bears in roots of the inferred from the vulgar name it bears in most of the European languages, quasi lecti minga et urinaria herba dicitur; and there are various proofs of its efficacy in jaundice, dropsy, consumption, and some cutaneous disorders. The leaves, roots, flowers, stalks, and juice of dandction, have all been separately employed for medical purposes, and seem to differ rather in degree of strength than in any essential property: therefore the environment. perty; therefore the expressed juice, or a strong decocion of the roots have most commonly been prescribed, from one ounce to four, two or three times a-day. The plant should be always used fresh; even extracts prepared from it appear to lose much of their power by bearing.

LEONTOPO'DIUM. (From λεων, a lion, and πους, a foot: so named from its supposed resemblance.) The

a loot: so named from its supposed resemblance.) The herb lion's foot, or Fulgo tembopadium.

LEONURUS. (From Leov, a lion, and oven, a tall: so named from its likeness.) 1. The name of a genus of plants in the Linnean system. Class, Dulynamia; three, Gymnospermia. Lion's tail.

2. The name, in some pharmacopeias, for the lion's tail. See Leonurus cardiaca.

LEONERUS CARDIACA. The mother-wort. palma gallis; Marrubium; Cardiaca crisne palma gallis: Morrubium: Cardiaca crispa; Leo. nurus-joliis caulinis lanceolatis, trilobis, of Linneus!

The leaves of this plant have a disagreeable smell and t or indented. This disorder usually begins about the a bitter taste, and are said to be serviceable in disorders of the stomachs of children, to premote the uterine dis-

of the stomachs of fundoes, to promote the aterine dis-charge, and to allay palputation of the heart. Logard's bane. See showed montena. LEPT DATM. (From heats, a sease; so named from its supposed usefolness in cleansing the skin from scales and imputations.) The mane of a genus of plants in the Linnacan system. Class Tetradynamica; Order,

LEPIDIUM IBERIS. Iberis; Cardamantica. Sciaca cre: ses. This plant possesses a warm, penetrating, tica cresses.

tica crosses. This plant possesses a warm, penetrating, pungent taste, like unto officer crosses, and is recommended as an antiscorbinic, antiseptic, and stomachic. LEPIDICH SATIVEM. Vestortogs, has tense. Distractor, This plant possesses warm, nervine, and stimulating qualities, and is given as an antiscorbinic antiseptic, and stomachic, especially by the lower

LEPIDOSARCO'MA. (From Asmis, a scale, and saps,

Lepidosarco για (From λεπις, a scale, and σαρς, flesh.) A scaly tumour.

LEPIDOSES. (From λεπις-δος, squama, a scale.) The name of a genus of diseases. (Lass. Ecertica; Order, Aerotica; in Good's Nosology. Scale-skin. It contains four species, Lepidosis pripriasis, teprasis, propriasis, telephonasis, telephonasis, (From λεπιζφ, to decorticate.) Decortisation. A manhammatic threshim.

tication. A peching off of the skin.

LEPORINUS. (From lepus, a hare.) Leporine or hare-like. Applied to some malformations, diseases, and parts, from their resemblance to labium lepore

nuon, Sec.

LEPRA. (From lepos, scaber, vel asperex squammatic decedent bus; named from its appearance.) The
leprosy. A disease in the class Cacherne, and order
Imputigines, of Cullen. Dr. Willan describes this discase as characterized by scaly patches, of didecent
sizes, cut having always meanly a circular form. In this country, three varieties of the discuse are observed, which herias described under the names of Lepra val-

garis, Legra alphas, Legra nigricans.
1. The Legra culvairs, exhibits first small distinct 1. The Legra valenass, exhibits first small distinct elevations on the cutche, which are reddists and shin-ing, but never contain any fluid, these patches con-tinue to enlarge gradually, fill they meally equal the dimensions of a crown-piece. They have always an orbicular, or oval form; are covered with dry scales, and surrounded by a red border. The scales accumilate on them, so as to form a thick prominent crust, which i, quickly reproduced, whether it tail off spontaneously, or may have been forcibly detacled. This species of lepra sometimes appears instal the chook or on the forcamic, but nonegenerally about the knee. In the latter case, the primary patter forms immediately below the patella; within a text weeks, several other staly circles appear along the fore part of the leg and thigh, increasing by degrees till they come nearly into consist. The discusse is then often stationary for a considerable length of time. If it advance further, the progress is towards the hip and lobis; afterward to the sides, back, and shoulders, and about the same time to the arms and hands. In the greeter number of cases, the bairy scalp is the part fast affected; although the circles formed on it remain for some time distract, yet they finally unite, and cover the whole surface on which the hair grows with a white scaly incrustation. This appearance is attended, more especially in hot weather, with a troublesome itching, and with a watery dis-charge for several hours, when any portion of the crust is detacted, which takes place from very signit im-pressions. The pubes in adults is sometimes affected in the same manner as the head; and it the subject be a female, there is usually an internal pruritus padendi. In some cases of the disorder, the nails both of the fingers and toes, are thickened, and deeply indented longitudinally. When the lepra extends universally, it becomes highly disgusting in its appearance, and racoa venient from the stiffness and topper occasioned by is in the limbs. The disease, however, even in this ad-vanced stage, is seldom disposed to terminate spontaneously. It continues nearly in the same state for several years, or sometimes during the whole life of the person affected, not being apparently connected with any disorder of the constitution. 2. Lepra alphas. The scaly patches in the alphos are smaller than those of the lepra vulgaris, and also

differ from them in having their central parts depressed, Sec Alphus.

erbow, with distinct, contact asperties, of a dul red colour, and pot much longer than papilla. These, in a short time, delite to nearly the SEZ of a silver penny. Two or three days afterward, the central pan of them surfers a depression, within which small white powdery scales may be observed. The surrounding border, however, still continues to be raised, but retains the same size, and the same red colour as at first. The whole of the foream, and senetimes the back of the whole of the loreaum, and sententies in they seldom leand, is spotted with similar perches they seldom become confluent, excepting round the elbow, which, become confluent, excepting round the elbow, which, and with a uniform cost. This are in that case, is covered with a uniform crust. This at teetien appears in the same manner upon the joint of the kinee, but without spreading far along the thigh or teg. Dr. William has seldom seen it on the trank of the body, and never on the face. It is a disease of long duration, and not less difficult to cure than the foregoing spectres of lepra: even when the scally patches have been removed by persevering in the use of suitable applications, the cathetestill remains red, tender, and brittle, very slowly recovering its usual texture. The brittle, very slowly recovering its usual texture. alphos, as above described, frequently occurs in this

3. The Lepra nigricass differs little from the lepra vulgaris, as to its form and distribution. The most striking difference is in the colour of the patches, which are dark and livid. They appear first on the legs and forearms, extending afterward to the thighs, loins, neck, and hands. Their central part is not depressed, as in the alphos. They are somewhat smaller insize than the patches of the long and and not any is the shocker. patches of the lepra vulgaris, and not only is the border havid or purplish, but the five document to the border livid or purplish, but the five document the border wise appears through the sealy incrustation, which is seldom very thick. It is further to be observed, that the seales are more easily detached than in the other forms of lepra, and that the surface remains longer excornated, discharging lymph, often with an intermix-ture of blood, till a new incrustation forms, which is usually hard, britle, and irregular. The lepra nigri-crus, alfects persons whose occupation is attended with much fatigue, and exposes them to cold or damp, and to a precarious or improper mode of diet, as sal-diers, brewers, labourers, butchers, stage-coachmen, scullermen, &cc.; some women are also hable to it, who are habituated to poor living and constant hard labour.

LEPRINSS. (From leppor, and constant nard anount.
LEPRING RECOUNT. The lepta vulgaris, adjulos, and
ingricans have all been so denominated. See Lepra.
LEPRINSS. (From leppor, scalar). The specific
name of a species of leproses in Good's Nosology, which embraces the several kinds of leprosy. LEPROSY. See Lepra.

LEPTU'NTICA. (From λεπτος, thin.) Attenuating

LEPTY'SMUS. (From λεπτος, slender.) Attenua-

LEFTY SAUS. (From Actros) security Products from or the making a substance less soid.

LEPUS. The name of a genus of animals of the order Glives, in the class Manamalia. The bare.

LEFUS CONTROLLES. The systematic name of the rabbit the flesh of which, when young and tender, is

Lift's TIMIDUS. The systematic name of the com-mon hare; the flesh of which is considered as a deli-

cacy, and easy of digestion.

Lε'ros. (From ληοεω, to trifle.) A slight de-

LETHARGY. (Lethargus; from ληθη, forgetfulness: so called because with it the person is forgetful.) A heavy and constant sleep, with scarcely any inter-A heavy and constant steep, with scarcery any care-vals of waking; when awakened, the person answers, but ignorant or forgetful of what no said, immediately sinks into the same state of sleep. It is consumered as an imperfect apoplexy, and is mostly symptomatic. LETHE A. The name of the poppy LETTI CT. See Lactura.

LETTE See Lactrica.

LEVCACANTHA. (From λευκος, white, and ακανθα, a thern: so named from its white blossom.)

The cotton-thistle.

1.EUCA'NTHEMUM. (From λευκος, white, and as θεμος, a flower: so called from its white floret.) See Chru-anthemum leucanthemum.

LEUCASMUS. (Accessoryos, whiteness: so named from its appearance.) The specific name, Epickrosis teneasmus, yeal skin, in Good's Nosology, for the Viti-LEUCE.

(Acukos, white.) A species of leprosy

LEUCELE'CTRUM. (From Asukos, white, and

ABSUCTION TRUM. (From λένκος, white, and πλεκτρον, amber.) White amber.

LEUCINE. (From λέγκος, white; from its appearance.) The pame given by Braconnet to a white pulverthent matter obtained by digesting equal parts of beef fibre and sulphuric acid together, and after separating the fat, diluting the acid mosture, and saturated. rating with chalk, filtering and evaporating. A substance tasting like oznazone is thus procured, which is to be boiled in different portions of alkohol. The alkoholic solutions, on cooling, deposite the white pul-verulent matter, or leacine.

LEUCOLA CHANUM. (From λευκος, white, and λαχαvov, an herb : so named from its colour.) The Valeriana

LEUCO MA. (From AEUROS, white.) Leucoma and albugo are often used synonymously, to denote a white opacity of the cornea of the cyc. Both of them, ac-Opacity of the cornea of the eye. Both of them, ac-cording to Scarpa, are essentially different from the nebula, for they are not the consequence of chronic ophthalmy, attended with variouse veins, and an effu-sion of a milky serum into the texture of the delicate continuation of the conjunctiva over the cornea, but have the result of violant control controls. are the result of violent acute ophthalmy. In this state, a dense coagulating lymp't is extravasated from the arteries; sometimes superiorally, at other times deeply, into the substance of the corpea. On other deeply, into the substance of the cornea. On other occasions, the disease consists of a time callous ciratrix on this membrane, the effect of an ulcer, or wound, with loss of substance. The term allower, strictly belongs to the first form of the disease; leacona, to the last, more particularly when the opacity occupies the whole, or the chief part, of the cornea.

LETCONYMPHEMA. (From λευκος, white, and wayrbata, the water-filly.) See Nymphous allow.

LETCOPHAGITM. (From λευκος, white, and φαγω, to cat.) A medicated white food.

LETCOPHEEMA SIA. (From λευκος, white, and φλεγμα, phlegm.) Lettee phlegmante. A tendency in the system to a dropsical state known by a pale colour of the skin, a flabby condition of the skin, a flabby condition of the solids, and a redundancy of scrum in the blood.

LEUCO PIPER. (From λευκος, white, and πεπερε, pepper.) White pepper. See Pyper megram.

Pepper. White pepper. See Piper negroun.
1.EUCORRHOE'A. (From λευκος, white, and ρεω, to dow.) Pluor advis. The whites. A secretion of whitish or milky nuces from the vaging of women, arising from debility and not from the venereal virus. This disease is marked by the discharge of a thin white or yellow matter from the uterus and vagina, attended likewise with some degree of factor, smarting in making HREWISE WITH SOME DEGREE OF INTO ASSURED IN THIS IN THE WATER, DATE IN THE WATER, DATE IN THE WATER AND præputium, and occasioning a weeping from the

To distinguish leucorrhea from gonorrhea, it will be very necessary to attend to the symptoms. latter the running is constant, but in a small quantity there is much ardor uring, itching of the pudenda, swelling of the labia, increased inclination to venery, and very frequently an enlargement of the glands in the groin; whereas, in the former the discharge is irregular. and in considerable quantities, and is neither preceded by, nor accompanied with, any inflammatory affection

Immoderate coition, injury done to the parts by diffi-Inmoderate cotton, injury done to the parts by unn-cult and tedious isbourns, it queen miscarrings, immo-derate flowings of the menses, profuse evacuations, poor diet, an abuse of ten, and other causes, giving rise to general debility, or to a laxity of the parts more immediately concerned, are those which usually pro-duce the whites, vulgarly so called, from the discharge-heing commonly of a milky white colour.

Fluor albas, in sounce cases, indicates that there is a

Fluor albus, in some cases, indicates that there is a disposition to disease in the alerus, or parts connected with it, especially where the quantity of the discharge is very copious, and its quality highly acrimomous. By some the disease has been considered as never arising from debility of the system, but as being always a prunary affection of the uterus. Delicate worren, with lax fibres, who remove from a cold climate to a warm one, are very apt to be attacked with it, without the parts having previously sustained any kind of

The disease shows itself by an irregular discharge from the uterus and vagina of a fluid which, in diffe ent women, varies and vagina of a little winding in water ent women, varies anoth in colour, being either of a winte, green, yellow, or brown line. In the beginning, it is, however, most usually white and pellucie, and in the progress of the complaint acquires the various dis-colorations, and different degrees of acrimony, from whence proceeds a slight degree of smarting in making Besides the discharge, the patient is frequently afflicted with severe and constant pains in the back and loins, loss of strength, failure of appetite, dejection of spirits, paleness of the countenance, chilliness, and languor. Where the disease has been of long continuance, and very severe, a slow fever, attended with difficult respiration, palpitations, faintings, and swellings of the lower extremities, often ensues

A perfect removal of the disorder will at all times be A perfect removal of the disorder will at an times be a difficult matter to procure; but it will be much more so in cases of long standing, and where the discharge is accompanied with a high degree of acrimony. In these cases, many disorders, such as prolapsus uteri, decreations of the organ, arrophy, and dropsy, are apt to take place, which in the end prove itaal.

Where the disease terminates in death, the internal

surface of the uterus appears, on dissection, to be pale, surface of the uterus appears, on dissection, to be pare, flabby, and relaxed; and where organic affections have arisen, much the same appearances are to be met with as have been noticed under the head of menorrhagia. LEUCO'RRHOIS. (From Agrees, white, and peop to flow.) A discharge of mucus from the urethra or regime.

LEVA"TOR. (From levo, to lift up.) A muscle, the office of which is to lift up the part to which it is

LEVATOR ANGULI ORIS. Abducens labiorum, of Spigelius; Elevator labiorum communis, of Douglas; Canenus, of Winslow; and Sus maxillo labial, of Dumas. Annusclesimated above the month, which draws the corner of the mouth upwards, and makes that part of the check opposite to the chin prominent, as in smiling. It arises thm and fleshy from the hollow of the superior maxillary bone, between the root of the socket of the first grinder and the foramen infra orbita-

rium, and is inserted into the angle of the mouth and

under lip, where it joins with its antagonist.

LEVATOR ANI. Levator magaus, seu internus, of Douglas: Pabo coccigi annulaire, of Dumas. A muscle of the rectum. It arises from the os pubis, within the pelvis, as far up as the upper edge of the foramen thyroideum, and joining of the os pubis with the os ischium, from the thin tendinous membrane that covers the obturator internus and coccygæus muscles, and from the spinous process of the ischium. From these origins all round the inside of the pelvis, its fibres run down like rays from the circumference to a centre, to be inserted into the sphincter ani, acceleratores unne, and anterior part of the two last bones of the os coccygis, surrounding the extremity of the rectum, neck eggis, surrounding the extremity of the fectum, neek of the bladder, prostrate gland, and part of the vesicule seminales. Its fibres, joining with those of its fellow, form a funnel-shaped hole, that draws the rectum upwards after the evacuation of the freese, and assists in shutting it. The levatores ani also sustain the contents of the pelvis, and assist in ejecting the scacen, urine, and contents of the rectum, and perhaps, by pressing upon the veins, contribute greatly to the erection of the penis.

LEVATOR LABIT INFERIORIS. A muscle of the mouth Staated below the lips. Levator ment, of Albunas. Increase inferior, of Winslow. Elevator labit inferiors proprius, of Douglas. It arises from the lower jaw, at the roots of the alweol of two incisor teeth and the cuspidatus, and is inserted into the under lip and

skin of the chin.

LEVATOR LABII SUPERIORIS ALEQUE NASI. Elevator Levator Land Strentoris analysis Raft. Elevator labit superioris propriate, of Douglas; facisieus laterales et peramosades, of Winslow. A muscle of the mouth and lips that raises the upper lip towards the mouth and labe outwards; it seves also to draw the skin of the nose upwards and outwards, by which the nostril is ditated. It arises by two distinct origins; the first, broad and fleshy, from the external part of the orbitar process of the superior maxillary bone, immediately above the foramen units orbitarium; the second, from the usual process of the superior maxillary bone. from the masal process of the superior maxillary bone, where it joins the es frontis. The first portion is mserted into the upper lip and orbicularis muscle, the

lig

second into the upper lip and outer part of the ala | trees, it consists of as many layers as they are years

LEVATOR LABII SUPERIORIS PROPRIUS. Musculus incisivus. A muscle of the upper lip. It arises under the edge of the orbit, and is inserted into the middle of

the lip.

Levator could. See Rectus superior oculi.

Levator palatt. A muscle situated between the lower jaw and the os hyoides laterally. Levator palati mollis, of Albinus; Petrosalpingo-staphilinus, vet salpingo-staphilinus internus, of Winslow; Nathinus of Valsalva; Pterigo-staphilinus externus outgo, of Douglas, Spheno-staphilinus, of Cowper. It arises tendinous and feeby from the extremity of the tendinous and feeby from the extremity of the mountain bine, where it of the petrous portion of the temporal bone, where it is perforated by the Eustachan tube, and also from the membraneous part of the same tube, and is inserted into the whole length of the volum pendulum palati, as far as the root of the uvula, and unites with its fellow. Its use is to draw the volum pendulum palati upwards and backwards, so as to shut the passage from the fauces into the mouth and nose.

Tauces into the mouth and nose.

Levator palati. Mollis. See Levator palati.

Levator palpebre superioris. Aperiens palpebrarum rectus; Apertor oculi. A proper muscle of the upper eyelid, that opens the eyes, by drawing the eyelid upwards. It arises from the upper part of the foramen opticum of the sphenoid bone, above the rectus superior oculi, mear the trochlearis, and is inserted by a broad thin tendon into the cartilage that

Seried by a broad than tendon into the carthage that supports the upper cyclid.

LEVATOR PARVUS. See Transverus perinei.

LEVATOR SCAPULE. A muscle situated on the posterior part of the neck, that pulls the scapula upwards and a little forwards. This name, which was first given to it by Riodanus, has been adopted by Albinus. Douglas calls it elevator seu musculus patienties; and Winslow, angulares, rulgo levator proprius. It is a long muscle, hearly two inches in breadth, and is situ-ated obliquely under the anterior edge of the trapezius. It arises tendinous and fleshy from the transverse processes of the four and sometimes five superior vertebræ cesses of the four and sometimes five superior vertebra-colli, by so many distinct slips, which soon unite to form a muscle that runs obliquely downwards and outwards, and is inserted by a flat tendon into the upper angle of the scapula. Its use is to raise the scapula upwards and a little forwards. LEVIGATION. (Lavigatic; from lavigo, to make smooth.) The reduction of a hard substance, by tri-

ture, to an impalpable powder.

LEVI'STICUM. (From levo, to assuage: so called from the relief it gives in painful flatulencies.) See

Ligusticum levisticum. LEVRET, Andrew, a French surgeon and accoucheur, was admitted into the Royal Academy of Sur-gery, at Paris, in 1742. He obtained considerable re-putation by the improvements which he made in some of the instruments used in difficult cases, and by the great number of pupils whom he instructed. He was employed and homograd with official appointments by all the female branches of the royal family. He puball the female branches of the royal family. He published several works, which went through various editions and translations, mostly on obstetrical subjects; but there is one on the Radical Cure of Polypi in different parts of the body.

LEXIPHATMACA. (From ληγω, to terminate, and φαρμακου, poison.) Medicines which resist or

LEXIPHA'RMACA. (From ληγω, to terminate, and φαρμακον, poison.) Medicines which resist or destroy the power of poison.

LEXIPY'RETA. (From ληγω, to make cease, and πυρετος, a fever.) Febrifuge medicines.

LBA DIUM. (From λιδαζω, to make moist: so called because it grows in water y places.) The less centaury. See Chironia centaurium.

LIBANO'TIS. (From λιδαμος, frankincense: so called from its resemblance in smell to frankincense.)

Rosemary.

Li'BANUS. (From Libanon, a mountain in Syria.

where it grows., 1. The Pinus cedrus, or cedar of

old, the uncrmost being called the liber; and it is this layer only that the essential vital functions are carried on for the time being, after which it is pushed out-wards with the cellular integument, and becomes, like that, a lifeless crust

La Bos. (From λειδω, to distil.) A rheum or de-

In Bos. (From Action of the Bos.)

LIBU RNUM. (From Liburnia, the country where it flourished.) The mealy-tree. See Viburnum lan-

LICETO, FORTUNIO, was son of a Genocse physician, and born in 1577. After prosecuting with diligence the requisite studies, he settled at Pisa at the age of twenty-two, and soon obtained the professorship of of twenty-two, and soon obtained the professorship of philosophy there; and in 1609 he received a smular appointment at Padua. Thence, after twenty-seven years, he removed to Bologna, being disappointed of the medical chair; but on a wacaney occurring in 1645, he was induced, by the pressing invitations made to him, to accept the office, in which he continued tilt his death in 1657. He was a very copious writer, having published above fifty treatises on different subjects, and disaboved much expedition, but no great accuracy. published above hity treatises on dimerent subjects, and displayed much crudition; but no great acuteness or originality. His treatise, "De Monstrorum Causis, Natura, et Differentiis," is best known, and shows him to have been very credulous; which appears farther from his belief, that the ancients had a method of making lamps, which should burn for ever without a fresh supply of fuel, and that such had been found in coulchies.

sepuichres.
LI'CHANUS. (From  $\lambda \omega_{X}\omega$ , to lick: so called because it is commonly used in licking up any thing.)

cause it is commonly act. The foreinger.

LICHEN. ( $\Lambda \epsilon \iota \chi \eta \nu$ , or  $\lambda \iota \chi \eta \nu$ , a tetter, or ringworm.) Tetter, or ringworm.

1. The name of a disease, defined, by Dr. Willan,

1. The name of a disease, defined, by Dr. Willan, an extensive eruption of papulæ affecting adults, connected with internal disorder, usually terminating in scurf, recurrent, not contagious. The varieties of lichen he considers under the denominations of Lichen

helien he considers under the denominations of Licken simplex, Licken agrius, Licken pilarie, Licken lividus, and Licken tropicus.

The Licken simplex usually commences with headache, flushing of the face, loss of appetite, general languor, and increased quickness of the pulse. Distinct red papulæ arise first about the cheeks and chin, or on the arms; and, in the course of three or four days, the me arms; and, in the course of three or four days, the same appearance takes place on the neck, body, and lower extremities, accompanied with an unpleasant sensation of tingling, which is somewhat agarvated during the night. In about a week, the colour of the eruption fades, and the cuticle begins to separate; the whole surface is at length covered with scurvy extoliawhole surface is at length covered with seurry exfoliations, which are particularly large, and continue longest in the flexures of the joints. The duration of the complaint is seldom in any two cases alike; ten, fourteen, seventeen, or sometimes twenty days intervene between the eruption and the renovation of the cuticle. The febrile state, or rather the state of irritation at the beginning of this disorder, is seldom considerable enough to comme the patient to the house. After remaining five or six days, it is generally relieved on the appearance of the eruption. This, as well as some other species of the hehen, occurs about the beginning of summer, or in autumn, more especially affecting persons of a weak and irritable habit; hence women are more liable to it than men. Lichen simplex is also a frequent sequel of acute diseases, particularly fever frequent sequel of acute diseases, particularly fever and catarrhal inflammation, of which it seems to proand catarrhal inflamination, of which is occurs as per duce a crisis. In these cases the eruption has been termed, by medical writers, seables critica. Many instances of it are collected under that title by Sau-vaces, Nosol, Method. Class x. Order 5. Impeti-

gines.

The Lichen agrius is preceded by nausea, pain in the stomach, headache, loss of strength, and deep-seated pains in the limbs, with fits of coldness and days and seated pains in the limbs, with his or shivering; which symptoms continue several days, and shivering; which symptoms continue several days, and 2. The frankincense tree, or Pinus abies.

Liber. Bark. Imagediately under the cuticle of plants and trees is a succeilent cellular substance, for plants and trees is a succeilent cellular substance, for plants and trees is a succeilent cellular substance, for plants and trees is a succeilent cellular substance, for the most part of a green volour, at least of the leaves and by mithed tissue herbace. Under this is the bark, consisting of but one layer in plants or branches only one year old. In the older branches and trunks of 20

one or two cases where it was produced from impruone of two cases where it was produced from imprudent exposure to cold, that an acute disease ensued, with great quickness of the pulse, heat, thirst, pains of the bowels, frequent vomiting, headache, and defiritum. After these symptoms had continued ten days, or somewhat ionger, the pattent recovered, though the cruption did not return. The diffuse redness connecting the pepulse, and the tendency to become pustular, distinguish the lichen agrius from the lichen simplex, and the other varieties of this complaint, in which the Inflammating does not, extend beyond the basis of the

and the other varieties of this complaint, in which the inflammation does not extend beyond the basis of the papulæ, and terminates in seurf, or scales.

Licken pilaris. This is merely a modification of the first species of lichen, and, like it, often alternates with complaints of the head, or stomach, in irritable habits. The peculiarity of the cruption is, that the small tubercles or asperities appear only at the roots of the hairs of the skin, being probably occasioned by an enlargement of their bulbs, or an unusual fulness of the blood-vessels distributed to them. This affection is distinguishable from the cutis ansering, by its tion is distinguishable from the cutis anserina, by its permanency, by its red papulæ, and by the troublesome permanency, by its red papulæ, and by the troublesome itching or tingling which attends it. If a part thus affected be violently rubbed, some of the papulæ enlarge to the size of wheats, but the tumour soon subsides again. The eruption continues more or less vivid for about ten days, and terminates, as usual, in small exfoliations of the cuticle, one of which surrounds the base of each hair. This complaint, as likewise the lichen agrius, frequently occurs in persons. accustomed to drink largely of spirituous liquors un-

Lichen lividus. The papulæ characterizing this eruption are of a dark red, or livid hue, and somewhat eruption are of a dark red, or livid hue, and somewhat more permanent than in the foregoing species of lichen. They appear chiefly on the arms and legs, but sometimes extend to other parts of the body. They are finally succeeded, though at very uncertain periods, by slight exfoliations of the cuticle, after which a fresh eruption is not preceded or attended by any febrile symptoms. It principally affects persons of a weak constitution, who live on a poor diet, and are engaged in laborious occupations. Young persons, and often children living in contined situations, or using little exercise, are also subject to the lichen lividus; and in them, the papular are generally intermixed with petechie, or larger purple spots, resembling vibices. This circumstance points out the affinity of the lichen lividus with the purpura, or land scurvy, and the connexion is further proved by the exciting causes, which are the same in both complaints. The same method of treatment is likewise successful in both cases. They are presently cured by nourishing food, moderate is further proven by the executing causes, some in both complaints. The same method of treatment is likewise successful in both cases. They are presently cured by nourishing food, moderate exercise in the open air, along with the use of Penyian bark and vitrolic acid, or the tineture of muriated steel.

Lichen tropicus. By this term is expressed the prickly heat, a papulous eruption, almost universally affecting Europeans settled in tropical climates. The By this term is expressed the affecting Europeans settled in tropical climates. The prickly heat appears without any preceding disorder of the constitution. It consists of numerous papulæ, about the size of a small pin's head, and elevated so as to produce a considerable roughness on the skin. The papulæ are of a vivid red colour, and often exhibit an irregular form, two or three of them being in many places united together; but no redness or inflammation extends to the skin in the interstices of the

Papules.

2. The name of a genus of plants (applied by the Romans to a plant which was supposed by them to cure the lichen, or tetter,) in the Linnæan system. Class, Cryptogamia; Order, Alga. There are several species, some of which are used in medicine.

LICHEM APRITHOSUS. Muscus camatilis. This plant is said to have a decided good effect in some convisions of the intestings but is not used in the practice.

plaints of the intestines, but is not used in the practice

of this country.

The systematic name of the ash-LICHEN CANINUS. LICHEN CANINGS. The systematic name of the ashcoloured ground liverwort. Lichen cinercus terrestris;
Muscus caninus. This cryptogamous plant has a
weak, faint smell, and a sharpish taste. It was for a
long time highly extelled as a medicine of singular virtue, in preventing and curing that dreadful disorder
which is produced by the bite of rabid animals, but it is
now deservedly forgotten.
LICHEN CINCERSUS TERRESTRIS. See Lichen caninus.
LICHEN COCCIPERUS. See Lichen pyzidatus.

LICHENISLANDICUS. The medicinal qualities of this plant have lately been so well established at Vienna, that it is new admitted into the materia medica of the that it is new admitted into the materia medica of the London pharmacopeia. It is extremely mucilagibous, and to the taste bitter, and somewhat astringent. Its bitterness, as well as the polygative quanti winch it manifests in its recent state, are in a great measure dissipated on drying, or may be extracted by a slight infusion in water; so that the inhabitages of Iceland convert it into a tolerably grateful and nutritive food. An ounce of this lichen, boiled a quarter of an hour in a oint of water, wielded seven emposs of a nucliage as a pint of water, yielded seven ounces of a muchage as thick as that procured by the solution of one part of gum-arabic in three of water. The medical virtues of this lichen were probably

first learned from the Icelanders, who employ it in its fresh state as a laxative; but when deprived of this quality, and properly prepared, we are told that it is quanty, and properly prepared, we are told that it is an efficacious remedy in consumptions, coughs, dysenteries, and diarrheas. Scopoli seems to have been the first who, of late years, called the attention of physicians to this remedy in consumptive disorders: and further instances of its success are related by Herz, Cramer, Tromsdorff, Ebeling, Paulisky, Stoll, and others, who bear testimony to its efficacy in most of the other complaints above mentioned. Dr. Herz says, that since he first used the lichen in dysentery, he found it so successful that he never held occasion to emilion. that since he has used the iteren in dysentery, he found its o successful, that he never had occasion to employ any other remedy; it must be observed, however, that cathartics and emetics were always repeatedly administered before he had recourse to the lichen, to which he also occasionally added opium. Dr. Crichton informs us, that during seven months' residence at Vienna, he had frequent opportunities of seeing the Vienna, he had frequent opportunities of seeing the lichen islandicus tried in phthisis pulmonalis at the general hospitals, and confesses, "that it by no means answered the expectation he had formed of it." He adds, however, "from what I have seen, I am fully convinced in my own mind, that there are only two species of this disease where this sort of lichen promises a cure. The two species I hint at are the phthisis hæmoptoica, and the phthisis pituitosa, or nucosa. In several cases of these, I have seen the patients so far get the better of their complaints as to be dismissed the hospital cured, but whether they remained long so or not, I cannot take upon me to say." That this lichen strengthens the digestive powers, and proves extremely nutritious, there can be no doubt; but the great medicinal efficacy attributed to it at Vienna, will not readily be credited at London. It is commonly given in the form of a decoction: an ounce and a half will not readily be credited at London. It is commonly given in the form of a decoction: an ounce and a half of the lichen being boiled in a quart of milk. Of this, a teacupful is directed to be drank frequently in the course of the day. If milk disagree with the stomach, a simple decoction of the lichen in water is to be used. Care ought to be taken that it be boiled over a slow fire, and not longer than a quarter of an hour.

LICHEN PLICATUS. The systematic name of the muscus arboreus. This plant, we are informed by the great botanist Linnaus, is applied by the Laplanders to parts which are excertated by a long journey. It is slightly astringent, and is applied with that intention to

slightly astringent, and is applied with that intention to

bleeding vess

LICHEN PULMONARIUS. The systematic name of the officinal museus pulmonarius querienus. Pulmonaria arborea. This subastringent and rather acid plant was once in high estimation in the cure of diseases of the lungs, especially coughs, asthmas, and catarrhs. Its virtues are similar, and in no way inferior, to those of the lichen islandicus,
LICHEN PYXIDATUS. The systematic name of the

LIGHEN PYXIDATUS. The systematic name of the cup-moss. Muccus pyxidatus; Mucculus pyxidatus in fixeculus pyxidatus; Mucculus pyxidatus; Mucculus pyxidatus, of Linnæus, for both are used indifferently, are employed by the common people in this country in the cure of hosping-cough, in the form of decention.

JICHEN ROCCELIA. The systematic name of the roccella of the shops. Roccella. It has been employed medicinally with success in allaying the cough attendant on phthists, and in hysterical congles. The principal use is as a blue dye. It is imported to us as it is gathered: those who prepare it for the use of the dyer, grind it between stones, so as throughly to bruise, bur not to reduce it into powder, and then moisten it occanot to reduce it into powder, and then moisten it occa-sionally with a strong spirit of urine, or urine itself mixed with quicklime: in a few days it acquires a

purplish-red, and at length a blue colour; in the first | of chemical affinity. By the aid of this principle, na-

Eather its caried archit, in the latter lacinus or himns.

Litmus is used in cheat-try as a test, either stanning paper with it, or by infusing to in warea, who are is very commonly, but were great impropriety, called tenetare of turnsole. The persons by whom this article was prepared formerly, gave it the name of turnsole, preprum trumerum, in order to keep its true source a The uncture should not be too strong, other-Wise it will have a violet tinge, which however, may be removed by dilution. The fight of the sun turns it red even in close vessels. It may be made with spirit instead of water. This tincture, or paper stamed with it, is presently turned red by acids, and if it be first reddened by a small quantity or vinegar, or some weak

acid, its blue coronn will be restored by an aikalt.
LICHEN SANATIAS. The systematic name of the
muscus crame hamans. Usnes. This moss, when
growing on the human skull, was formedly in high estimation, but is now deservedly forgotten.

LIEN. (From λειος, soit, or smooth.) The spleen. See Spicen. LIEN SINARUM. The Faba argyptia. See Numphaa

LHATERIA. From Lewy, smooth, and errepor,

the intestine. Liencery. See . errina.

Litt TAU is do sirn, was be nat Aix, in Provence, in 1703. A taste for botany induced him to travel into brong at back many pands unnotated by that distinguished botanist; this gained him great applause, and he obtained the reversion of the chairs of Botany and Anatomy, which his maternal unace had long filled He was also appointed physician to the bospital at Aix, which led hon to turn his attention chiefly to anatomy. His audience soon became numerous, and in 1742 be published a syllabus, enabled, "Essais Ana which was many times repented, with imtoniques, when was many time and an approvements. He communicased also several papers on module anatomy, and on physiology, to the Academy of Sciences, of which he was elected a corresponding member. In 1739 he went to Versantes, Secare having obtained for him the appointment of paysician to the Royal Infirmary; which act of friendship is ascribed to a liberal private communication of some errors committed by Senac. He there continued his most steamons with great zeal, and was soon of cled as islant amanemist to the Royal Academy, which he presented with many valuable memors. He also printed a volume, "Elementa Paystologra," composed for his class at his Class at 1555 he means a contract of the class at 1555 he means Aix. In 1755 he was nominated physician to the royal family, and 20 years after, first physician to Louis XVI. In 1759 Ins "Piecis de la Médicine Pratique," appeared, which went through several editions; and seven years after, his "Precis de la Mantére Médicale." But his most important work, which still ranks high in the estimation of physicians, is entitled, "Historia Anatomico-Medica," in 2 vols. quarto, 1767, containing numerous dissections of morbid bodies. His death occurred in 1780.

LIEVRITE. Vinite. A blackish green-coloured mineral, composed of silica, alumina, lime, oxide of iron, and oxide of manganese, found in primitive line-stone, along with epidote, quartz, &c. in the isle of Elha. LIFE. A peculiar condition, or mode of existence,

LIFE. A peculiar condition, or mode of existence, of living beings. Surrounding matter is divided into two great classes, living and dead. The latter is subject to physical laws, which the former also obeys in a great degree. Living matter exhibits also physical properties, which are found equally in dead matter. Bu living bodies are endowed likewise with a set of properties altogether different from these, and contrastwith them in a very remarkable way; these are called vital properties, actions, powers, taculties, or forces. These animate living matter so long as a continues alive, and are the source of the various phenomena which constitute the functions of the living animal body, and which distinguish its history from that of dead matter. The study of life is the object of the science of physiology, which includes an inquiry into the properties that characterize living matter, and an investigation of the functions which the various organs, by virtue of these properties, are enabled to execute. The vital principle diffused throughout these organs induces a mode of umon in the elements, widely differing from that which arises from the common laws of the os pt

of chemical affinity. By the aid of this principle, fir-ture produces the animal thinks as blood, ble, semen, and the rest, which can never be produced by the ait of chemistry. But if, in consequence of death, the laws of vital attraction, or affittive, cease to operate, then the elements, recovering their physical properties, become again obedient to the common laws of chemi cal affanty, and enter into new combinations, from which new principles, in the process of patiefaction, are produced. Thus the hydrogen, combining itself with the azote, forms volatile alkali; and the carburetted hydrogen, with the azote, putrid an, into which the whole body is converted. It also appears from hence, why organized bodies alone, namely, animal and vegetable, are subject to putridity; to which morgame or mineral substances are in no degree liable, the latter not being compounded according to the laws of vital affinity, but only according to those of chemical attenty. For the fattscence, or resolution of pyrites, or sulplunct of iron, in atmospheric air, is not putte-faction, but only the oxygen, furnished by the sur, combining with the sulphur, and forming iron and surphate of iron.

The life of an animal body appears to be three-

1. Its chemical life, which consists in that attraction of the elements, by which the vital principle, diffused through the solids and fluids, defends all the parts of the healy from purrefaction. In this sense it may be the body from putretaction. By this sense it may be said, that every atom of our hody lives chemically, and that life is destroyed by putrefaction alone

2. Its physical life, which consists in the irritability of the parts. This physical property remains for some time after death. Thus the heart or intestines removed from the body, while still warm, contract themselves on the application of a stimulus. In like manner the serpent or eel, being cut into pieces, each part moves and palpitates for a long time afterward. Hence these parts may be said to live physically, as long as they are warm and soft

3. Its physiological life, consists in the action of inorganic parts proper to each, as the action of the heart and vessels; so that these actions ceasing, the body is said to be physiologically dead. The physiological line ceases first, next the physical, and finally the chemical perishes.

LIGAMENT. (Ligamentum; from ligo, to bind.) An erastic and strong membrane connecting the extre-mines of the moveable bones. Ligaments are divided noto capsular, which surround joints like a bag, and connecting ligaments. The use of the capsular ligabones, and prevent the efflux of synovia; the external and internal connecting ligaments strengthen the union the extremities of the moveable bones.

LIGAMENTON ANNUARE. The angular ligament.

strong heament on each ankle and each wrist.
Ligamentum arteriosum. The ductus arteriosus of the fietus becomes a ligament after birth, which is

LIGAMENTUM CILIARE. Behind the uvea of the human eye, there arise out of the choroid membrane, from the ciliary circle, white complicated striæ, cover ed with a black matter. The fluctuating extremities of these strue are spread abroad even to the crystalline lens, upon which they lie, but are not affixed.

Taken together, they are called ligamentum ciliare.

LIGAMENTUM DENTICULATUM. A small ligament supporting the spinal marrow

LIGAMENTUM PALLOPII. The round ligament of the uteras has been so called. See also Lagamentum pou-The round ligament of the

LIGAMENTUM INTEROSSEUM. The ligament uniting the radius and ulna, and also that between the tibia

LIGAMENTUM LATUM. The broad ligament of the liver, and that of the uterus. See Liver and Uterus. LIGAMENTUM NUCHE. A strong ligament of the

neck, which proceeds from one spinous process to an

LIGAMENTUM OVARII. The thick, round portion of the broad figament of the uterus, by which the ovarium is connected with the ute us,

LIGAMENTON POURARTI. Fallopian ligament. Pou part's ligament. A ligament extending from the autorior super or sninous process of the ilium to the

LIGAMENTUM ROTUNDUM. The round ligament of

the

ne uterus. See Uterus. IAGATURF. (Ligatura; from ligo, to bind.) th ead, or silk, of various thickness, covered with white wax, for the purpose of tying asteries, or vens, or other pasts. Ligatures should be sound and very firm, so as to allow their being tied with some force, without risk of breaking.

The immediate effect of a tight ligature on an artery is to cut through its middle and internal coats, a cirthe countries of the very much to promote the adhesion of the opposite sides of the vessel to each other. Hence the form and mode of applying a ligature to an artery should be such as are most corann or dividing aftery should be such as are most cream of the above coats of the vessel in the most favourable manner. A broad that ligature does not promise to answer the purpose in the best manner: because it is scarcely possible to tie it smoothly round the artery, which is very likely to be thrown into folds, or to be puckered by it, and consequently to have an irregular bruised wound made in its middle and internal coats A ligature of an irregular form is likely to cut through these coats more completely at some parts than at others; and if it does not perfectly divide them no adhesion can take place, and secondary hamorrhage will follow. A fear of tying the ligature too tight may

often lead to the same consequences.
LIGHT, Lux. The nature of light has occupied much of the attention of philosophers, and numerous opinions have been extertained concerning it. It has been some times considered as a distinct substance, at other times a quality; sometimes as a cause, frequently as an by some it has been considered as a compound, the c., of some in as new new consumer as a comparing, by others as a simple substance. Philosophers of the present day are mostly agreed as to the independent existence of light, or the cause by which we saw.

Nuture of light, - Light is that which proceeds from

any body producing the sensation of vision, or perception of other bodies, by depicting an image of external objects on the retina of the eye. Hence it announces objects on the retina of the eye. Hence it amountees to animals the presence of the bodies which surround them, and enables them to distinguish these bodies into transparent, opaque, and coloured. These properties are so essentially connected with the presence of light, that bodies lose them in the dark, and become undistinguishable.

Light is regarded by philosophers as a substance consisting of a vast number of exceedingly small parti cles, which are actually projected from luminous bodies, and which probably never return again to the body from which they were emitted.

It is universally expanded through space. It exerts peculiar actions, and is obedient to the laws of attrac

tion, and other properties of matter.

Explanation of certain terms of light.—In order to facilitate the doctrine of light, we shah shortly explain a few terms made use of by philosophers when treating of it; namely,

A ray of light is an exceedingly small portion of light as it comes from a luminous body

A medium is a body which affords a passage for the rays of light.

A beam of light is a body of parallel rays.

A pencil of rays is a body of diverging or converging

Converging rays are rays which tend to a common

Diverging rays are those which come from a point,

and continually separate as they proceed.

The rays of light are parallel, when the lines which

they describe are so. The radiant point is the point from which diverging

rays proceed. The focus is the point to which the converging rays

Sources of light .- Light is emitted from the sun the fixed stars, and other luminous bodies. It is produced by percussion during electrization, combus-

tion, and in various other chemical processes Why the sun and stars are constantly exacting light, is a question which probably win for ever battle ha man understanding.

The light emitted during combustion exists previously, either combined with the combustible body, or with the substance which supports the condustion. - each other. Chemical properties of light.—The chemical effects of light have much engaged the attention of philosophers. Its influence upon animal, vegetable, and other substances is as follow

1. On vegetables.-Every body knows that mest of the discous flowers for withe sun in ms course; that they attend ann to his evening retreat, and meet his rising lustre in the morning with the same unerring law. It is also well known that the change of position in the leaves of plants, at different periods of the day, is entirely owing to the agency of light, and that plants which grow in windows, in the inside of houses, are, as it were, solicitous to turn their leaves towards the light. Natural philosophers have long been aware of the influence of light on vegetation. It was first ob the influence of agut on vegetation. It was most on-served that plants growing in the shade, or darkness, are pale and without colour. The term etiolation has been given to this phenomenon, and the plants, in which it takes place, are said to be etiolated, or blanched. Gardeners avail themselves of the know-blanched. ledge of this fact, to turnish our tables with white and tender vegetables. When the plants have attained a certain height, they compress the leaves, by tying them together, and by these means (or by laying earth over them,) deprive them of the contact of light; and thus it is that our white celery, lettuce, cabbages, endive, see, are chained. For the same reason, wood is white under the green bark; and roots are less coloured than plants; some of them alter their taste, &c.; they even acquire a deleterious quality when suffered to grow exposed to light. Potatoes are of this kind. Herbs that grow beneath stones, or in places utterly dark, are white, soft, aqueous, and of a mild and insipid taste. white, soft, aqueous, and of a filld and institute the more robour they acquire. Though plants are capable of being nourished exceedingly well in the dark, and in that state grow much more rapidly than in the sun, (provided the air that surrounds them is fit for vegetathey are colouriess and unfit for use

Professor Davy found, by experiment, that red rose-tres, carefully excluded from light, produce roses amost white. He likewise ascertained that this flower owes its colour to light entering into its composition; that pink, orange, and yellow flowers imbibe a smaller position of light than red ones, and that white flowers ontain no light. But vegetables are not only indebted to the light for their colour: taste and odour are likewise derived from the same source.

Light contributes g eatly to the maturity of fruits and seed. This seems to be the cause why, under the burning sun of Africa, vegetables are in general more odoriterous, of a stronger taste, and more abounding with resin. From the same cause it happens, that hot climates seem to be the native countries of pertunes, odoriferous fruits, and aromatic resins.

The action of light is so powerful on the organs of vegetables, as to cause them to pour forth torrents of pure air from the surface of their leaves into the atmosphere, while exposed to the sun; whereas, on the contrary, when in the shade, they coult an air of a boxious quality. Take a few handfuls of tresh-gathered leaves of mint, cabbage, or any other plant; place them in a bell glass, filled with fresh water, and invert it into a basin with the same fluid. If the whole be then exposed to the direct rays of the sun, small air bubbles will appear on the surface of the braves, which will gradually grow larger, and at last datach themselves and become collected at the surface of the water. This is oxygen gas, or vital air.

All plants do not emit this air with the same facility; there are some which yield it the moment the sun acts upon them; as the jacobrea or ragwort, lavender, peppermint, and some other aromatic plants. The leaves afford more air when attached to the plant than when gathered; the quantity is also greater, the fresher and sounder they are, and if full grown and collected during Green plants afford more air than those which are of a yellowish or white colour. Green fruits which meet a yellowish of winde colour. Green failts adford like wise oxygen gas; but it is not so plentifully furnithed by those which are tipe. Flowers in general reads, the air novitous. The Nasturfium indicum, in the space of a few hours, gives our more air than is equal to the bulk of all its leaves. On the contrary, if a like bell glass, prepared in the same manner, be kept in the dark, another kind of air will be disengaged, of

There is not a substance which, in well-closed glass

vessels, and exposed to the sun's light, does not experience some alteration.

Camphor, kept in glass bottles, exposed to light, civstallizes into the most beautiful symmetrical figures, on that side of the glass which is exposed to the light.

Yellow wax, exposed to the light, loses its colour and tenow was, exposed to the asin, loss as contour and becomes bleached. Gum guatacum, reduced to pow-der, becomes green on exposure to light. Vegetable colours, such as those of saffron, logwood, &c. become

pale, or white, &cc.

On animals.-The human being is equally dependent on the influence of light. Animals in general droop when deprived of light, they become unhealthy, and even sometimes die. When a man has been long and even sometimes die. When a man has been long confined in a dark dungeon though well arred, his whole complexion becomes sallow; pustules, filled with aqueous humours, break out on his skin; and the person, who has been thus deprived of light, becomes languid, and frequently dropsical. Worms, grubs, and caterpollars, which live in the earth, or in wood, are of aw hitish colour; moths, and other insects of the night, are likewise distinguishable from those which fly by day by the want of brilliancy in their colour. The difference between those insects, in northern and southern parts, is still more obvious

The parts of fish which are exposed to light, as the back, fins, &c. are uniformly coloured, but the belly,

which is deprived of light, is white in all of them.

Birds which inhabit the tropical countries have
much brighter plumage than those of the north. Those parts of the brids who have not exposed to the light are uniformly pale. The feathers on the belly of a bird are generally pale, or white; the back, which is exposed to the light, is almost always coloured; the breast, which is particularly exposed to light in most birds is bright as the balls. birds, is brighter than the belly.

Butterflies, and various other animals of equatorial countries, are brighter coloured than those of the polar

regions. Some of the northern animals are even darker in summer and pales to winter.

3. On other substances.—Certain metallic oxides become combustible when exposed to light; and acids, as the nitric, &c. are decomposed by its contact, and various other substances change their nature.

Light carbonated hydrogen. See Carburetted hy-

drogen gas.
LIGNEUS. Woody. Applied in botany to pods, barks, &c. which are of a bard membraneous, or woody

texture; as the strobilus of the Pinus sylvistris.

LIGNUM. Wood.

LIGNUM AGALLOCHI VERI. See Lignum alocs.

LIGNUM AGALLOCHI VERI. See Lignum alocs. Agallugum; Lignum aquila; Lignum calambac, Lignum aspalathe; Aglo aloes; Agallochum; Calambac. Aloes wood. The tree, the wood of which bears this name, is not yet scientifically known. It is Dears this name, is not yet scientificany known. It is by some supposed to be the Ercaearca agalloche, the bark as well as the milk of which is purgative. It is imported from China in small, compact, ponderous pieces, of a yellow rusty brown colour, with black or purplish veins, and sometimes of a black colour. It has a bitterish resinous taste, and a slight aromatic amel. It is used to fundate rooms in eastern countries.

LIGNUM AQUILE. Sue Lignum alors.
LIGNUM ASPALATIL See Lignum alors.
LIGNUM CALAMBAC. See Lignum alors.
LIGNUM CAMPBEHENSE. ((amprechensis) so called

because it was brought from Campeachy, in the bay of Decause it has bright tool composition, it the pay of Hometras. See Hamatorylon camprehianam.

Lionem indicenses. See Gradiavam.

Lionem molecoense. See Cradiavam.

Lionem sephaticem. See Gradiavam moringo.

LIGNUM NEPHRITICUM. See Gratinadina moringo. LIGNUM PAVANÆ. See Croton Inglaum. [LIGNUM QUARSIÆ. See Quassia amara. A.] LIGNUM RIPODUM. See Aspolatinis Canaricasis. LIGNUM SANTEUM. See Guaucum. LIGNUM SANTEUR. See Guaucum.

LIGNUM SAPPAN. See Hematoxylon campechianum. LIGNUM SERPENTUM. See Ophioxylum scrpenti-

("LIGNUM VITE. The tree which produces this wood grows in the West Indies and tropical parts of

America. It attains to the height of forty feet, and its trunk is four or five feet in circumference.

Lignum vitæ is brought in logs or masses, consisting of a dark greenish heart, covered with a yellowish al-

It is exceedingly hard, sinks in water, has burnum. little smell except when heated, and possesses a bitter

and pungent taste

The medicinal properties of the wood are principally derived from its resinous particles. It is, however, used as an ingredient in some decoctions, to which it imparts a certain portion of extractive matter of a tonic imparts a certain portion of extractive matter of a tonic and stimulating nature. It was formerly much celesbrated as an antisyphilitic. The hardness and solidity of handness and solidity of handness are strong as the properties of great importance in the mechanic arts: "—Bog. Mat. Med. A.]

LIGULA. (Ligula, a strap.) 1. The clavicle.

2. The relative

2. The glottis.
3. The name of a measure and a weight.
3. A genus of the Mollusca order.
5. The small transparent membrane on the margin

of the sheath and base of the leaves of grasses.

LIGULATUS. Shaped like a straw or ribband; a term applied to a kind of flore of a compound flower, which is so shaped; as those of the Tragopogon and

LIGUSTICUM. (ALYUSIKOV of Dioscorides; so called from Liguria, in Italy, its native country.) The name of a genus of plants. Class Pentandria; Order, name of a genus of plants.

Digynia.

Digipina.

Lagisticum Levisticum. The systematic name of lovage. Levisticum. The odour of this plant, Ligusticum—fulus multiplicibus, foliolis superne enesiss, of Linnaus, is very strong, and particularly ungrateful; its taste is warm and aromatic. It abounds with a vellowish gummy resinous juice, very much resembling oppopaax. Its virtues are supposed to be similar to those of angelica and masterwort, in expelling flatulations of the superness of the second superness of the superness of the second superness of the superness of lencies, exciting sweat, and opening obstructions; therefore it is chiefly used in hysterical disorders and uterine obstructions. The leaves, caten in salad, are accounted emmenagogue. The root, which is less ungrateful than

emmenagogue. The root, which is less sugrateful than the leaves, is said to possess similar virtues, and may be employed in powder.

LIGU'STRUM. (From ligo, to bind: so named from its use in making bands:)

1. The name of a genus of plants in the Linnean system. Class, Diandria; Order, Monogynia.

2. The pharmacopasial name of the herb privet.

The Ligastrum vulgare.

LI'LALITE. The mineral lipidolite.

LILIACEUS. (From lilium, a lily.) Liliaceous, or The resembling the lily.

Lilling E.\*. The name of an order of plants in Linnæus's Fragments of a Natural Method, consisting of

such as have liliaceous corolla, and a three-lobed stig-

ma: as colchicum, lilium, crocus, &c.
LILLYGO. (Diminutive of lilium, the lily: so named from the resemblance of its flower to that of a lily.)
Liliustrum. Spiderwort. The Anthericum liliastrum of Linnæus, formerly said to be alexipharmic and carminative.

LILLIUM. from the beauty of its leaf.) The name of a genus of plants in the Linnæan system. Class, Hexandria; Order, Monogynia. The lily.

Order, Monogynia. The lily.

LILIUM ALBUM. The white lily. See Lilium candidum

LILIUM CANDIDUM. The systematic name of the white lily. Lilium album. Lilium—foliis sparsis, corrolles companulatis, intus glubris, of Linneus. The roots are directed by the Edinburgh pharmacopæia; they are extremely mucilaginous, and chiefly used, boiled in milk and water, in emollient and sup-purating cataplasms, to inflammatory tumours. These lily-roots afford a good substitute, in times of scarcity, for bread. The distilled water has been sometimes used as a cosmetic.

LILLIUM MARTAGON. The martagon lily. Linneus tells us that the root of this plant forms a part of the ordinary food of the Siberians.

LILY. See Lalium and Nymphæa.

LHY. See Lilium and Nymphaa. Lily, May. See Convallaria majalis. Lily, water. See Nymphaa alba, and Nymphaa

Lily, white. See Lilium candidum.
Lilu of the valley. See Convallaria majalis.
LIMATU'RA. (From lima, a file.) File dust or

LIMATURA FERRI. Steel filings are considered as possessing stimulating and strengthening qualities, and are exhibited in worm cases, ataxia, leucorrhea, diar- | remedy against the pains that precede the appearance

eff exhibited in worm cases, ataxia, reutorines, tearrheae, chlorosis, &c.

LUMAN. (From limus, slime: so named from its sliminess.) Cochlea terrestris. The snail. This animal abounds with a viscid slimy juice, which is readily given out by boiling, to milk or water, so as to render them thick and glatinous. These decoctions are apparently very nutritious and demulcent, and are

are apparently very nutritious and demulcent, and are recommended in consumptive cases and emaciations.

LIMBUS. The brim or border. Applied to a part of the corolla in botany. See Corolla.

LIME. Calz. 1. The oxide of calcium, one of the primitive earths. It is found in great abundance in nature; though never pure, or in an uncombined state. nature, though never pure, or in an uncombined state. It is always united to an acid, and very frequently to the carbonic acid, as in chalk, common lime-stone, narble, calcareous spar, &c. It is contained in the waters of the ocean; it is found in vegetables; and is the basis of the bones, shells, and other bard parts of animals. Its combination with sulphuric acid is known by the name of sulphate of lime (gypsum, or plaster of Paris). Combined with flouric acid it constitutes fluate

of lime, or Derbyshire spar.

Properties.—Lime is in solid masses, of a white colour, moderately hard, but easily reducible to powder. Colour, moderately hard, out easily reductive to poweer. Its taste is bitter, urinous, and burning. It changes blue cabbage juice to a green. It is unalterable by the heat of our furnaces. It splits and falls into powder in the air, and loses its strong taste. It is augmented in weight and in size by slowly absorbing water and carbon the surprise of the properties. It is suppressing the surprise of the properties of the specific gravity is weight and in size by stowiy assoroing water and car-bonic acid from the atmosphere. Its specific gravity is 2.3. It combines with phosphorus by heat. It unites to sulphur both in the dry and humid way. It absorbs sulphuretted hydrogen gas. It unites with some of the metallic oxides. Its slaking by water is attended with heat, hissing, splitting, and swelling up, while the water is partly consolidated and partly converted into vapour and the lime is reduced into a very voluminous dry powder, when it has been sprinkled with only a small quantity of water. It is soluble when well prepared in about 450 parts of water. It unites to acids. It ren-ders silex and alumine fusible, and more particularly these two earths together.

Method of obtaining Lime .- Since the carbonic acid Method of obtaining Lime.—Since the carbonic action may be separated from the native carbonate of lime, this becomes a means of exhibiting the lime in a state of tolerable purity. For this purpose, introduce into a porcelain, or earthen retort, or rather into a tube of green glass, well coated over with lute, and placed across a furnace, some powdered Carara marble, or oyster-shell powder. Adapt to its lower extremity a bent tube of glass, conveyed under a bell. If we then heat the tube, we obtain carbonic acid ass: and lime

heat the tube, we obtain carbonic acid gas; and lime will be found remaining in the tube or retort. The burning of lime in the large way, depends on the disengagement of the carbonic acid by heat; and, as lime is infusible in our furnaces, there would be no danger from too violent a heat, if the native carbonate of lime were perfectly pure; but as this is seldom the case, an extreme degree of heat produces a commencement of vitrification in the mixed stone, and enables it to preserve its solidity, and it no longer retains the qualities of lime, for it is covered with a sort of crust, which prevents the absorption of the water when it is attempted to be slaked. This is called over-burnt

In order to obtain lime in a state of great purity, the

following method may be had recourse to.

following method may be not recourse to.

Take Carara merible, or dyster-shells; reduce them
to powder, and dissolve the powder in pure acetic
acid; precipitate the solution by carbonate of ammonia. Let the precipitate subside, wash it repeatedly
in distilled water, let it dry, and then expose it to a
white heat for some hours.

The acetic acid, in this operation, unites to the lime, and forms acctate of lime, disengaging at the same time the carbonic acid, which flies off in the gaseous state: on adding to the acetate of lime carbonate of ammonia, acetate of ammonia, and an artificial car-bonate of lime are formed; from the latter the car-bonic acid is again expelled, by exposure to heat, and the lime is left behind in a state of perfect purity. See

2. A fruit like a small lemon, the juice of which is a

of yaws. See Titia.

Lime, CHLORIDE OF. The bleaching salt or bleach ing powder, sold under the name of oxymuriate of

LIMESTONE. A genus of minerals which Professor Jameson divides into the four following species:

1. Rhombspar. 2. Dolomite. 3. Limestone. 4. Arragonite.

Limestone has twelve sub-species.

1. Foliated limestone. Of this there are two kinds, calcareous spar, and foliated granular limestone.

2. Compact timestone, of which there are three kinds, common compact limestone, blue Vesuvian, and

3. Chalk

4. Agaric-mineral, or Rock milk.

5. Fibrous limestone, to which belong the satin spar, and the fibrous calc-sinter.

Tufaceous limestone, or calc-tuff. Pisiform limestone, or peastone.

8. Slatespar. Aphrite.

10. Luculite, of which there are three kinds, com-

pact, prismatic, and foliated.

11. Marle, of which there are two species, the earthy and compact.

Bituminous marle slate.

E. Bituminous marie state.

Limestone, bituminous. See Bituminous limestone.

LiME-TREE. See Tilia.

Lime-valer. See Caleis liquor.

LiMON. (Hebrew,) See Citrus medica

LiMO'NIUM. «(From λειμων, a green field; so called from its colour.) This name has been applied

The Valeriana rubra.

2. The Polygonum jeropyr
3. The Pyroli rotundifolia.

4. More commonly to the sea-lavender, or Statice limonium, of Linnæus, which is said to possess astringent properties.

LIMO'NUM. (From λειμων, a green field: so called from the colour of its unripe fruit.) The lemon-

called from the colour of its uniffer rice. See Citrus medica.

LIMOSIS. (From \( \text{Lugoc} \), \( \text{Culio} \), \( \text{Culios} \), \

species, viz. Limosis avens, expers, pica, cardaugua, fatus, emesis, duspepsia.

LINACRE, Thomas, was born at Canterbury, about the year 1460. After studying at Oxford, he travelled to Italy, where he acquired a perfect knowledge of the Latin and Greek languages; and afterward devoted his attention to medicine and natural ward devoted his attention to medicine and natural philosophy at Rome. On his return, he graduated at Oxford, and gave lectures there on physic, as well as taught the Greek language. His reputation soon became so high, that he was called to court by Henry VII. who not only intrusted him with the education of his children, but also appointed him his physician; which office he likewise enjoyed under his successor, Henry VIII. He appears in this monarch's reign to have stood, above all rivalship, at the head of his profession; and expired his attachment to its interest of fession; and evinced his attachment to its interests, as well as to the public good, by founding medical lectures at the two universities, and obtaining the institution, in 1518, of the royal college of physicians in London. The practice of medicine was then occupied by the bishops, whence much mischief must have arisen. A corporate body of regularly bred physicians was therefore established, in whom was vested the sole right of examining and admitting persons to practice, as well as of examining apottnearies' shops. Linacre was the first president, which office he retained during the remainder of his life; and, at his death, in 1524, bequeathed his house to the college. He had relinquished practice, and entered into holy orders, about five years before, being greatly afflicted with the stone, which was the cause of his dissolution. In his literary character, Linacre stands eminently distinguished, having been one of the first to introduce the learning of the ancients into this country. He translated seve-The practice of medicine was then occupied by having been one or the first to infrontee the learning of the ancients into this country. He translated seve-ral of the most valuable works of Galen into Latin; and his style is remarkable for its purity and elegance: very strong acid, and very much used in the making of punch. Externally, the same acid is applied in the cutaneous affections of warm climates, and also as a tion, on which he published a large philosophical lowed among his code inporaries, as well as the honour and humanity with which he exercised the medical art; and the celebrated Erasmus has bestowed up in him the highest commendation. He was barred in St. Paul's Cathedral, where a monument was afterward encited to ms memory, with a Latin inscription. by Dr. Carus.

LINAGRO STIS. (From horov, cotton, and a) purges grass; so called from the softmes of its feature. Cot ton-grass. The Errophorum of Linnaus, four species

foregrass. The Erruphorms of which are found in Britain. LANANGINA. From Luum, flax, and ango, to strangle: so called because, it it grows among that of hemp, it twists round it, and chokes it.) The herb dottder. The Cascata carepona of Limiteus.

LINA RIA. (From lenum, flax, named from the resemblance of its leaves to those of flax.) See . In-

tirrhinam linaria.

LINCTUS. (Linetus, us. m.; from lingo, to lick.) Loboc; Febrgma; Eleves; Elegene; Electos; Februs; tos; Illinotes. A lordy a famioance. A term in pharmacy, i.a. is generally asphed to a soft and some-what ody sansonnee, of the consistence of honey. watch is licked off the spoon, it being too solid and

adhesive to be taken otherwise.

i.i.A.A.A. From Lemon, a thread.) This term is appare, to some parts which have a thread or line like appearance, as the long tendinous appearance of the

muscles in the abdomen, &c.

Lana alea. Linea centralis. An aponeurosis that extends from the scrobicalus cords straight down to the navel, and from thence to the pubes. It is formed by the tendinous fibres of the macroal oblique 

posterine.

Line semilunares. The lines which bound by the the outer magnification recti muscles, formed by the

union of the abdominal tendor-The lines which cross the LINE E TRANSVERS E

rects muscles of the abdomen.

LINEARIS. Linear. Applied to leaves, petals, leat sacks, seeds, Sc. of plants, which are narrow, With parallel's des, as the leaves of most grasses, those of the .V. cissas, Pseudo nurcissus, and the petals of the Tesselven parjara, lear stalk of the Citres medica, and seeds of the Croconella.

LINEATUS. Lineate. See Linearis.

LINEATUS. Lineate. See Lineari LINGUA. (From Lago, to lick up.) The tongue

Ser Tongue. LING A AVIS. The seeds of the Frazinas, or ash, are so called, from then supposed resemblance to a bird's tongue.

LANGUA CANINA. So called from the resemblance of its leaves to a dog's tongue. See Cynoglossum.

6) Its ferives to a dog's tongue. See Cynoglossium. Lingue, Ceretina. See: Asphaniam Sodiopartrum. LINGUALIS. From Iongua, the tongue, j. binson-glosses, of Cowper. A musicae of the longue. It arises from the root of the tongue lauerady, and runs for ward between the hyo giossus and genio glossus, to be inserted into the tip of the tongue, along with part of the stylo glassas. Its use is to contract the substance

inserted into the typo: the toping a good with part of the style glassis. Its use is to contract the substance of the tong is, and to bring it backwards.

LINGUIFORMIS. See Langulatus.

LINGUIFORMIS. From long and a tongues; Tongueshaped. A term applied to a tent of a thick, oblong, blum figure, generally comlaginous at the edges; as m

LINIMENT. See Linement on to anoint.) LINIME TYTUR. (From trao, to anoint.) A liminent. An only substance of a mediate consistence, between an officine at a local but so thin as to drop. The following are some of the most approved formerly called oxymel asing internal all verdicals, formerly called oxymel asing internal agypticum, and unguentum greypticum, and unguentum greypticum, and the control of the control of

dered, an ounce; vinegar, seven fluid cances: counted honey, fourteen ounces. Dissolve the verdigris in the honey, fourteen ounces. vinegar, and strain it through a linen cloth; having added the honey, gradually boil it down to a proper consistence.

LINIMENTUM AMMONIA FORTIUS. Spring lining at of anmonia Take of solution of anmona, a fluid onner; oftweeld, two lide onners. Shake he in oge-ther until dary of ac. A nate powerful standing application than the former, acting as a rubefactent-

treatise. His professional skill was universally al. 'In pleurodynia, indolent tumours, stiffness of the foints, and anthritic pains, it is to be preferred to the milder one.

LANDSENIUM AMMONIT SI BUARBONATIS. Limiment of subcarbonate of anymonia, formerly called himmen turn aromonar, and harmentum volunte. Take of so lution of subcarbonaic of ammonia, a fluid ounce, olive oil, three fluid ounces. Shake them together until they unite. A stimulating liniment, mostly used relieve rheumatic pains, bruises, and paralytic numb-

LINIMENTUM AQUE CALCIS. Liniment of lime-water. Take of hose water, olive oil, of each cight onness, rectified spirit of wine, one onnec. Mix-Liniment of lime-This has been long in use as an application to binns

LIMIMENTUM CAMPHOR E. Camphor liniment. Take of camphor, half an onne; obve oil, two fluid onness. Dissolve the camphor in the oil. In actentions of urine, rheumatic pains, distentions of the abdomentour ascures, and tension of the skin from abscess, this is an excellent application.

LINMENTEN CAMPION E COMPOSITION. Compound camphor liniment. Take of camphor, two ounces; solution of ammonia, six fluid ounces; spirit of lavender, a pint. May the solution of ammonia with the spirit in a glass retort; then, by the heat of a slow fire, distil a pint. Lastly, in this distilled liquor dissolve the campion. An elevant and useful stimulant annithe camphor. An elegant and useful stimulant appli-cation in paralytic, spasmodic, and theumatic diseases. Also, for bruises, sprains, rigidities of the joints, incipi-

ent chilblains, &c. &c. Mercurial liniment. LINIMENTUM HYDRARGYRL Take of strong mercurial ointment, prepared lard, of fitteen minums; solution of ammonia, four fluid ounces. Differentiations: solution of animonia, foot fund onlines. First powder the camptor, with the addition of the spirit, then rub it with the mercorial ointment and the lard; lastly, add gradually the solution of ammonia, and my the whole together. An excellent formula for all surgical cases, in which the object is to quicken the action of the absorbents, and gently stimulate the surgical cases. faces of parts. It is a useful application for durinishing the indurated state of particular muscles, a pecuhar affects a every now and then met with in practice; and it is peculiarly well calculated for lessening the stiffness and chronic thickening often noticed in the joints. If it be frequently or largely applied, it affeets the mouth more rapidly than the mercurial oint-

LINIMENTUM OPIATUM. A resolvent anodyne embrocation, adapted to remove indolent tumours of joints, and those weaknesses which remain after strains and chilblains before they break.

LINEMENTER SAFONIS COMPOSITUM. Compound soap figurent. Linementer suponis. Take of hard soap, three ounces; camphor, an ounce; spirit of rosemary, a pint. Dissolve the camphor in the spirit, then many, a pun. Dissorte the campinor in the spirit, then add the soap, and macerage in the hat of a sand buth, until it be inched. The basis of this form was first proposed by Riverius, and it is now commonly used under the name of opodeldor. This is a more pleasant preparation, to rub parts affected with rheumatic pains, swellings of the joints, &c. than any of the foregoing, and at the same time not interior, except where a rubefacient is required.

Alternatives schools cut one. Soap linered, with opinin. Take of compound soap lininent, six ounces; their of opinin, two ounces. Mix. For dispersing indurations and swellings, attended with

pain, but no acute inflammation.

Le reastress reactions. Turpentine liningent, Le reastress reactions. Take of resin cerate, a pound; of of turpentine, half a past. Add in each fur pentine to the cesate, previously melted, and mix. This liningent is very command applied to homes, and was first introduced by Turpentine linio.ent Mr. Kemish, of Newcastle,

LINIMENTUM TEREBINTHINE VITRIOLICUM. Vitridistinguished the research of the control of the control of the partie. Take of office oil, ten causes oil of temperal of the numbers; vitriols acid, three deaches. Mrx. This presentation is said to be effectively in Cronic affections of the points, and in the removal of long-existing effects of sprains and hadis. bouil os.

Level at a ammonia. See Lementation ammoniae.

Level at a complete. See Lementation ammoniae.

Linement of mercury. See Linementum hydracyyri

Liniment of turpentine. See Linimentum terebin- | transactions, and the president purchased Linnwus's

Liniment of verdigris. See Linimentam arrigents. LINNÆ'A. (So mined in honour of Liniagus.) The name of a genus of plants in the Limna an system.

Allemant of agents of paints in the Lifting arrystems Class, Pridynamic; Order, Angiospermia.

LINNER BOREALIS. The systematic name of the plant named in honour of the instrontal Linners, which has a bitter, subastringent taske, and is used in some places in the form of fomentation, to rheamatic pains, and an infusion with milk is much esteemed in Switzerland in the care of scratica.

LINNÆUS, CHARLES, was born in Sweden, in 1707. He derived at a very early age from his father, that attachment to the study of nature, by which he averward so emmently desinguished himself. He was intended for the church, but made so little improvement in the requisite learning, that this was soon abandoned for the profession of medicine. He appears to have had a singular inaptitude for learning languages; though he was sufficiently versed in Latin. His scanty finances much embarrassed his progress at first; but his taste for botany at length having procured him the his taste for botany at length having procured him the patronage of Dr. Celsius, professor or drawing at 1 psai, he was enabled to pursue his studies to more advantage. In 1730, he was appointed to give tectures in the botanic garden, and began to compose some of those works, by which he reindered his favourite scrence. more philosophical, and more popular than it had ever been before. Two years afterward he was commissioned to make a ton through Lapland, of which This some it to make a total minagin (appears) of which he subsequently published an interesting account; and has ing learned the suit of assaying acetuls, he gave lee turns on this subject talso on his return. In 17.65, he took his degree in physic at Harderwyck, and in his inaugural dissertation advanced a strange hypothesis, that intermittent fevers are owing to particles of clay-taken in with the food, obstructing the minute a tenes. Soon after this, his Sysieme Nature first appeared. Soon after Ins. his System Nature has appeared, which was greatly enlarged and improved in numerous successive editions. In Holland, he fortunately obtained the support of a Mr. Chillond, an option banker, whereby he was enabled to visit England also; but his great exertions afterward impaired his health, and kning strated with a severe intermittent, he could not ins great exertions atterward impaired his health, and being attacked with a severe intermittent, he could not resist the desire, when somewhat recovered, of renun-ing to his native country. Arriving there in 1788, he settled at Stockholm, where his reputation soon pro-cured him some medical practice, and the appointment of physician to the navy, as well as lecturer on botany and mineralogy; a literary society was also established, of which he was the first mesident and by which meof which he was the first president, and by which namerous volumes of transactions have since been published. In 1740, he was chosen professor of medicine at Upsal, having been admitted a member of that academy on his return to Sweden; he also shared with Dr. Rosen the botanical duties, and considerably improved Rosen the botanical duties, and considerably hippover the garden; he was afterward made secretary, and on some public occasions did the honours of the university. He received likewise marks of distinction from several foreign societies. About the year 1748, he was appointed Archanter; and it became an object of mational innerest or make additions to his collection from tional tracest to make additions to his foller ion from every part of the world. A systematic treatise on the Materia Medica was published by him in 1749; and two years after his Philosophia Botanica, composed during a severe fit of the goot, in which he supposed himself to have derived great b neit from taking a large quantity of wood strawberries. This was soon followed by his great work, the Species Plantarum; after which he was honoured with ne order of the Polar Star, never performs confined for librage maints, and Star, never before conferred for literary merit; and having declined a spleaded instation to Spain, he was raised to the rank of nobility. In 1763 his son was allowed to assist him in the botanical duties. About this time he published his Genera Morborum, and three years after his Clavis Medicane. His medical line years after his clavis areusone. His measure lectures, though too theoretical, were very much esteemed; but he had declined general practice on his establishment at Upsal. As he advanced in his, the flatiguing occupations in which he was engaged impaired his health, notwithstanding his temperate and general to his temperate and problem. regular habits; and at length brought on his dissolu-tion in 1778. This was regarded as a loss to the nation, and even to the world. About ten years after, a society, adoping his name, was formed in this country, which has published many valuable volumes of

collections of his widow; similar institutions have also

cohections of his whow; similar institutions have been established in other parts of the world.

LENGARY SASTERA. Trustame is applied particularly to that arrangement of plants, whech Linuagus has saunded on the true the

Secured by the of plants.

LINOSPIT WMUM. (From λενον, flax, and σπερμα, seed., See Jeanum asstatisssmann.

LINOSPIT WMUM. (prom λενον flax, and σπερμα, seed., See Jeanum asstatisssmann.) writers to two plants, very different from one another

writers to two plants, very different from one another. The one is the Anexembers, or British mercury; the other the Eptimum, or dodder.

LINSEED. See Linum usitalissimum.

LINTEUM. Lint. A soft, woolly substance, made by senaping old linen cloth, and employed in surgery as the common dressing in all cases of wounds and ulcers, either simply or covered with different unctuous substances.

LINUM. (From \(\lambda\_{\text{stors}}\), soft, smooth: so called from soft, smooth texture.) I. The name of a genus of its soft, smooth texture.) I. The name of a genus or plants in the Linneau system. Class, Pentandria. O.der Pentagynia.

2. The pharmacopoial name of the common flax.

2. The pharmacoperate of Linum minimum; Chama a statissiman.

This small continue of the conti See Lineam astalissimum.
Linea catharritest. Lineam minimum; Chamalium. Purging flax, or mill-mountain. This small
parat, Lineam—folias apposites omato-kinecalatis, caule
dietentormo, corolles acutes, of Lineaus, is an effectual
and sade catharrite. It has a bitterish and disagreeable
taste. A handrul infused in half a punt of boiling

taste. A handful infused in half a pint of boiling water is the close for an adult.

Linux usitatissmum. The systematic name of the common flax. Linum salvestre. Linux—calveibus capsulsigue mucronatis, petalis crenatis, foliis linucolatis alternas, cande subsolutario, of Linuxus. The seeds of this useful plant, called linseed, have an unctuous, mucilaginous, sweetish taste, but no remarkable smell; on expression they yield a large quantity of an video the specially drawn without the anniof oil, which, when carefully drawn without the appli cation of heat, has no particular taste or flavour: boiled in water, they yield a large proportion of strong nonca in water, they yield a targe proportion of states that the lawourless muchage, which is in use as an emollicul or desaultent in cough, hourseness, and pleuritic symptoms, that frequently prevail in catarrhal affections and it is likewise recommended in nephritic pairs and stranguries. The meal of the seeds is also much used externally, in emollient and maturating cataplasms. The expressed oil is an officinal preparation, and is supposed to be of a more healing and balsamic nature than the other oils of this class: it has, therefore, been that the origin one of the class. It has, interfere, bear very generally employed in pulmorary complaints, and in colles and constipations of the bowers. The cake which remains after the expression of the oil, contains the farinaceous part of the seed, and is used in fattening cattle under the name of oil-cake.

Ing care time: a manufacture of the transition of the transition

mour.) That species of sarcocele in which the sub-stance constituting the disease very much resembles fat.

LIPO MA. (From λιπος, fat.) A solitary, soft unequal, indolent tunious, arising from a luxuriancy of A solitary, soft, adeps in the cellular membrane. The adipose structure forming the tumour is sometimes diseased towards its centre, and more fluid than the rest. At other times it does not appear to differ in any respect from adipose membrane, except in the enlargement of the cells con-taining the fat. These tensours are always many years before they arrive at any size

LIPOPS TYPE at Any 3-20 to leave, and ψυχη, the soul, or lifes A swoom, or fainting. See Sypre, at LIPOPHY MA. (From λεπω, to leave, and θυμος, the mind.) Fainting. See Symoops.
LIPPITTEDO. (Prom Lippus, bleave, eyed.) Epichemy Vernstraling. Bleavenday. An appellant Vernstraling. Bleavenday.

ENTITY 10. (From tappus, mear-eyed.) Epichoru: Xerophthalma. Blear-eyedness. An exudation of a puriform humour from the margin of the eyelids. The proximate cause is a deposition of acrimony on the glyndric mediamizant is the margin of the cyclids. This humour in the right glaces the treat of them. of the cyclids together. The margins of the cyclids are red and comety, are irred, and excite pain. An opthalmi t. fistule lachryma.s. and sometimes an ectro-pium, are the consequences. The species of the lippitudo are,

1. Lippitudo infantum, which is familiar to children, I quantity, in proportion to the size of the different parts particularly of an acrimonious habit. The hppitude of infants is mostly accompanied with tinea, or some scabby eruption, which points out that the disease originates, not from a local, but general or constitutional affection.

2. Lappatudo adultorum, or senilis. This arises from various acrimonies, and is likewise common to hard

drinkers

3. Lappitudo venerca, which arises from a suppressed genorrhwa, or fluor albus, and is likewise observed of children born of parents with venereal complaints

Lippitudo scrophulosa, winch accompanies other

scrofulous symptoms.

 Lappitude scorbatica; which affects the scorbatic Lipy Ria. (From λειπω, to leave, and πυρ. heat. A sort of fever, where the heat is drawn to the inward

parts, while the externals are cold.

LIQUIDA MBAR. (From liquidum, fluid, and am-

LIQUIDA MBAR. (From lequedum, fluid, and ambar, a fragrant substance, generally taken for ambergris; alluding to the aromatic hound gon which distils from this tree.) The name of a genus of plants in the Lionaransystem. Class, Monaciae. Order, Polyandran. Liquins mean system that the tree which allouds book the liquid amber and storan lequals, on liquid storax. The liquid amber and storan lequals, on liquid storax. The liquid amber and storan lequals, on liquid storax. The liquid amber and storan lequals, on liquid storax. The liquid amber and storan lequals the consistence of turpentine, by age hardened into a solid brittle mass. It is obtained by wounding the bark of this tree, which is described by Linnaus the Liquidiumbar—folius plantate amplitude, folius indevense, acutes. The pulse has a moderately pungent, warm, balsamic taste, and a very fragmant smeth, not milke that of the styrrax calmustra heightened by a little ambergris. It is seldom used medicinally. The styrrax lequals also obtained from this The Sturar liquida is also obtained from this plant by boiling. There are two sorts distinguished by authors; the one the purer part of the resmons matter, that rises to the surface in boiling, separated by a stranger, of the consistence of money, terms tous the turner, of the consistence of money, terms tous the turner, of the consistence of money, terms tous the turner. pentine, of a reddish or ash brown colour, moderately transparent, of an aerid unctuous taste and a fragrant smell, faintly resembling that of the solid styrax, but somewhat disagreeable. The other, the more impure part, which remains on the strainer, untransparent, and

use is chirily as stoarachies, in the form of plaster.

LIQUIFACTION. A chemical term, in some instances synonymous with fusion, in others with the world

delegaescence, and in others with the word solution.
iAQURITIA. From loguer, juice, or from elekovs, Welsh. See Glovereluca.
LEQUOR. A liquor. This term is applied in the
last editions of the Londor. Paarmacopaia to some preparations, before improperly called waters; as the aqua ammonia. &c Liquor ACETATIS PL. MBI. See Plumbi acetatis

LAQUOR ACETATIS PLUMBI DILUTUS. See Plumbi acctutes liquor dilutus

LAQUOR ATHERETS VITRIOLICUS. See Æther sul-

LIQUOR ALUMINIS COMPOSITUS. Compound solution alum. Take of alum, sulphate of zinc, of each half an ounce; boiling water two pints. Dissolve at the same time the alum and sulphate of zmc in the water, and then strain the solution through paper. This water was long known in our shops under the title of Aqua aluminosa bateana. It is used for cleansing and healing ulcers and wounds, and for removing cutaneous eruptions, the part being bathed with it hot three or four times a-day. It is sometimes likewise employed as a collyrium; and as an injection in thor albus and gonorrhea, when not accompanied with

LIQUOR AMMONIÆ. See Ammonia.

LIQUOR AMMONIE ACETATIS. See Ammonia acetatis

LIQUOR AMMONIÆ CARBONATIS. See Ammoniæ sub-

Carbonatis liquor.

Liquor MANONIE SUBCARBONATIS. See Ammonia subcarbonatis liquor.

Liquor of ammonia See Ammonia

LIQUOR AMNII. All that fluid which is contained in the membranaceous ovum surrounding the focus in the membranaceous countries sufficiently the general name of the waters, the L and president of the college. After studying at water of the amnion, or ovum, or liquor annii. The Cambridge, where he was made fellow of St. John's

of the ovum, is greatest by far in early pregnancy. the time of parturition, in some cases, it amounts to or the time of patternion, in some cases, it amounts to or exceeds from prots, and, in others, it is sensed, equal to us many ounces. It is usually in the surgest quantity when the child has been some time dead, or is born in a weakly state. This thad is generally transparent, other uniky, and sometimes of a yellow or light brown colour, and very different in consistence; and these alterations seem to depend upon the state of the constitution of the parent. It does not congulate with heat, like the serving of the blood, and chemically examined. like the serum of the blood; and, chemically examined, it is found to be composed of phlegm, earthy matter, and sea-salt, in different proportions in different subjects, by which the varieties in its appearance and consistence are produced. It has been supposed to be excrementitious; but it is generally thought to be secreted from the internal surface of the ovum, and to be circulatory as in other cavities. It was formerly imagined that the fœtus was nourished by this fluid, of which it was said to swallow some part frequently; and it was then asserted, that the qualities of the fluid were adapted for its nourishment. But there have been many examples of children born without any passage many examples of children born without any passage to the stonach; and a few of children in which the head was wanting, and which have nevertheless ar-rived at the full size. These cases fully prove that this opinion is not just, and that there must be some other medium by which the child is nourished, besides the waters. The incontrovertible uses of this fluid are, to serve the purpose of affording a soft bed for the resi-dence of the figure, to which it allows free motion, and prevents any external injury during pregnancy; and enclosed in the membranes, it procures the most gentle, yet efficacious, dilatation of the os uteri, and soft parts, at the time of parturition. Instances have been recorded, in which the waters of the ovum are said to have been in which the waters of the ovuln are sau to have been voided so early as in the sixth month of pregnancy, without prejudice either to the child or parent. The truth of these reports seems to be doubtful; because when the membranes are intentionally broken, the action of the uteras never fails to come on, when all action of the inerts level faints of the one of when an the water is evacuated. A few cases have occurred to me, says Dr. Denman, in practice, which might have been construed to be of this kind; for there was a daily discharge of some colourless fluid from the vagina, for several months before delivery; but there being no diminution of the size of the abdomen, and the waters being regularly discharged at the time of labour, it was judged that some lymphatic vessel near the os uteri had been ruptured, and did not close again till the patient was delivered. He also met with one case, in which, after the expulsion of the placenta, there was no sanguineous discharge, but a profusion of lymph, to the quantity of several pints, in a few hours after delivery; but the patient suffered no inconvenience except from

LIQUOR ANTIMONII TARTARIZATI. See Antimonis tartarizati liquor.

LIQUOR ARSENICALIS. See Arsenicalis liquor. Liquor calcis. See Culcis liquor. Liquor cupri ammoniati. See Cupri ammoniati

liquor LIQUOR FERRI ALKALINI. See Ferri alkalini liquor.

LAQUOR HYDRARGYRI OXYMURIATIS.

LIGHOR MINERALIS ANODYNUS HOFFMANNI. HOFFmann's anodyne liquor. See Spiritus atheris sulphu-

LIQUOR POT ISSE. See Potassa liquor.

LIQUOR SUBCARBONATIS POTASSE. See Potasse ubcarbonatis liquor.

LIQUOR VOLATILIS CORNU CERVI. This preparation of the fluid volatile alkali, commonly termed hartshorn, is in common use to smell at in faintings, &c. See Ammonia subcarbonas

Anumour successions.

Liqu'ORICE. Sec Glycyrrhiza.

Liquorice, Spanish. Sec Glycyrrhiza.

Liffeld.A. (A diminuive of tree, a ridge between two furrows.)

Acharius's name for the black letter-

two furrows.) Acharius's name for the black letter-like receptacles of the genus Opegrapha.

LISTER, Martin, was born about 1638, of a Yorksbire family, settled in Buckinghamshire, which produced many medical practitioners of reputation; and his uncle Sir Matthew Lister, was physician to Charles I, and president of the college. After studying at Cambridge where he was read faller, the college of the college of the college.

college, by royal mandate, he travelled to the Continent | in the bladder of animals with salifiable bases; thus for improvement. On his return, in 1670, he settled at York, where he practised for many years with considerable success. Having communicated many papers on the natural history and antiquities of the north of England to the Royal Society, he was elected a tellow England to the Royal Society, he was elected a renow of that body; and he likewise enriched the Ashmolean Museum at Oxford. He came by the solicitation of his friends to London in 1684, having received a diploma at Oxford; and soon after was admitted a fellow of the College of Physicians. In 1698 he accompanied the embassy to France, and published an account of this journey on his return. He was made physician to Queen Anne about three years before his death, which happened in the beginning of 1712. He wrote on the English medicinal waters, on small-pox, and some other diseases; but his writings, though containing some valuable practical observations, are marked by too much hypothesis and attachment to antient doctrines; and he particularly condemned the cooling plan of treatment in febrile diseases, introduced by the sagaof treatment in febrile diseases, introduced by the sagacious Sydenham. His reputation is principally founded on his researches in natural history and comparative anatomy, on which he published several separate works, as well as nearly forty papers in the Philosophical Transactions.

LiTHAGG'GA. (From  $\lambda i \theta \sigma_i$ ) a stone, and  $\alpha \gamma \omega_i$  to bring away.) Medicines which expel the stone.

LiTHARGE. See Littargyrus.

Litharge plaster. See Emplastrum lithargyri. LITHA RGYRUS. (From λιθος, a stone, Litha Ragyrus. (From λιθος, a stone, and apyvpos, silver.) Lithargyrum. Litharge. An oxide of lead, in an imperiect state of vitritication. When silver is refined by cupellation with lead, this latter metal, which is scorified, and causes the scorification of the imperfect metals alloyed with the silver, is transformed into a matter composed of small, semitransparent, shining plates, resembling mica; which is litharge. Litharge is more or less white or red, according to the metals with which the silver is alloyed. The white is called litharge of silver; and the red has been improperly called nitharge of gold. See Lead, and Plumbr subacetatis liquor.

LiTHIA. (Lithia, from λιθειος, lapideus.) Lithion; Lithian. 1. A new alkali. It was discovered by Arfredson, a young chemist of great merit, employed in the laboratory of Berzelius. It was found in a mineral from the mine of Uten in Sweden called petalite by D'Andrada, who first distinguished it. Sir H. Davy demonstrated by Voltaic electricity, that the basis of this alkali is a metal, to which the name of lethaum

has been given.

Bernelius gives the following simple process as a test

for lithia in minerals:

A fragment of the mineral, the size of a pin's head, is to be heated with a small excess of soda, on a piece of platinum foil, by a blowpipe for a couple of minutes. The stone is decomposed, the soda liberates the lithia, and the excess of alkali preserving the whole fluid at this temperature, it spreads over the foil, and surrounds the decomposed mineral. That part of the platinum near to the fused alkali becomes of a dark colour, which is more intense, and spreads over a larger surface, in proportion as there is more lithia in the nuneral The oxidation of the platinum does not take place beneath the alkali, but only around it, where the metal is in contact with both air and lithia. Potassa destroys is inconact with both at and thina. To task destroys the reaction of the platinum on the lithia, it the lithia be not redundant. The platina resumes its metallic surface, after having been washed and heated.

Caustic lithia has a very sharp, burning taste. It destroys the cuticle of the tongue like potassa. It does not dissolve with great facility in water, and appears not to be much more soluble in hot than in cold water. In this respect it has an analogy with lime. Heat is

evolved during its solution in water

When exposed to the air it does not attract moisture but absorbs carbonic acid, and becomes opaque. When exposed for an hour to a white heat in a covered platinum crucible, its bulk does not appear to be diminished: but it has absorbed a quantity of carbonic

acid.
2. The name of a genus of diseases in Good's No-Class, Eccritica; Order, Catotica. Urinary

LITHIAS. A lithiate, or salt, formed by the union of the lithic acid, or acid of the stone sometimes found

ill the chatter of ammonia, &c.
LITHI ASIS. (From \(\hat{k}\theta\_0 \), a stone.)

1. The formation of stone of gravel.

2. A tumour of the eyelid, under which is a hard

concretion resembling a stone.

(Acidum lithicum : from \(\theta\theta\_{05}\), a stone, because it is obtained from the stones of the bladder.) Acidum uricum. This was discovered in stone, necause it is obtained from the stones of the bladder. Accolum wirecom. This was discovered in analyzing human calculi, of many of which it constitutes the greater part, and of some, particularly that which resembles wood in appearance, it forms almost the whole. It is likewise present in human urine, and in that of the camel. It is found in those arthritic concretions commonly called chalkstones. It is often called uric acid.

The following are the results of Scheele's experiments on calculi, which were found to consist almost

wholly of this acid.

wholly of this acid.

1. Dilute sulphuric acid produced no effect on the calculus, but the concentrated dissolved it; and the solution, distilled to dryness, left a black coal, giving off sulphurous acid fumes.

2. The muriatic acid, either diluted or concentrated, had no effect on it even with builting.

2. Dilute nitrie egid attacked it cold. with childinion. 3. Ditute nitric acid attacked it cold; and with the assistance of heat, produced an effervescence and red vapour, carbonic acid was evolved, and the calculus was entirely dissolved. The solution was acid, even when saturated with the calculus, and gave a beautiful red colour to the skin in half an hour after it was applied: when evaporated, it became of a blood-red, but the colour was destroyed by adding a drop of acid: it did not precipitate muriate of barytes, metallic solutions, even with the addition of an alkali; alkalies rendered it more yellow, and if superabundant, changed it by a strong digesting heat to a rose colour; and this mixture imparts a similar colour to the skin, and is capable of precipitating sulphate of iron black, sulphate of copper green, nitrate of silver gray, super oxygenated muriate of mercury, and solutions of lead and zine, white. Lime-water produced in the nitric solution a white precipitate, which dissolved in the nitric and muriatic acids without effervescence, and without destroying their acidity. Oxalic acid did not precipitate it. 4. Carbonate of polassa did not dissolve precipitate it. 4. Carbonate of polassa did not dissolve it, either cold or hot, but a solution of perfectly pure potassa dissolved it even cold. The solution was yellow; sweetish to the taste; precipitated by all the acids, even the carbonic; did not render lime-water turbid; decomposed and meripitated solution of iron brown, of copper gray, or silver black, of zinc, mercury, and lead, white; and exhated a smell of animonia. 5. About 200 parts of lime water dissolved the calculus by digestion, and lost its acrid taste. The solution was by digestion, and lost its acrid taste. The solution was partly precipitated by acids. 6. Pure water dissolved it entirely, but it was necessary to boil for some time 360 parts with one of the calculus in powder. This solution reddened tincture of litmus, did not render lime-water turbid, and on cooling deposited in small crystals almost the whole of what it had taken up. 7. Seventy-two grains distilled in a small glass retort over an open fire, and gradually brought to a red heat, produced water of ammonia mixed with a little animal oil, and a brown sublineate, weighing 28 grains, and 12 grains of coal remanned which preserved its black colour on red-hot iron in the open air. The brown sublimate was rendered white by a second sublimation; was destitute of smell, even when moistened by an alkali; was acid to the taste; dissolved in boiling water, and also in alkohol, but in less quantity; did not precipitate lime-water; and appeared to resemble succinic acid.

Fourcroy has found, that this acid is almost entirely soluble in 2000 times its weight of cold water, when the powder is repeatedly treated with it. From his experiments he infers, that it contains azote, with a considerable portion of carbon, and but little hydrogen,

Of its combinations with the basis we know but little.

Much additional information has been obtained Much additional information has been obtained within these few years on the nature and habitudes of the lithic acid. Dr. Henry wrote a medical thesis, and afterward published a paper on the subject, in the second volume of the new series of the Manchester memoirs, both of which contain many important facts. He procured the acid in the manner above described

by Foureroy. It has the form of white shining plates. which are denser than water. which are denser than water. Has no taste nor mall. It dissoaves in about 1400 parts of belong water. It tidde as the unusion of manus. When assolved in urine acid, and evaporated to drytess, it leaves a rink section of the dry acid is not acide on nor dissorted by the accaline carbonates, or sab carbonates. It do composes oup when assisted by heat, as it does also the arkain, sulphurets and hydrosulphurets. No acro acts on it, exect those that occasion its decomposition. It dissolves in hot solutions of pitassa and seda, and likewise in ammonia, but less readily. The lithates may be formed, cither by mutually saturating the two constituents, or we may dissolve the acid in an excess constitueins, or we may dissolve the area in an excess of base, and we may then precipitate by contenate a consonal. The limits are all fusicioss, and ressemble in appearance being and used. They are not ancred by very on to be a mosphere. They are very spaningly soluble in water. They are decomposed by a reducial, which distroys the acid. The little acid is present, which distroys the acid. The little acid is present, and the superior of the acid, which is stored in a cal. The little acids per caps and from those sails by all the acids, except the presser and carbonic. They are decomposed by the niorates, muriates, and acctates of barytes, strontites, lime, magnesia, and alumina. They are precipitated by all the metallic solutions except that or gold. When littic acid is exposed to heat, the products and car-buretted hydrogen, and carbonic acid, prussic acid, carbonate of annonia, a sublimate, consisting of an monta combined with a peculiar acid, which has the

following properties.—

Its color, is yellow, and it has a gooting, bitter taste. It dissolves readily in water, and in alkaline solutions. If dissolves readily in water, and in anatom from which it is not precipitated by acids. It dissolves also sparingly in alkehol. It is volatile, and when sublimed a second time, becomes much whiter. The watery solution reddens vegetable blues, but a very small quantity of ammonia destroy this property, does not cause effervescence with alkaline various By evaporation it yields permanent crystals, but all defined, from adhering animal matter. These codden defined, from adhering animal matter. These codden vegetable blues. Potessa, when added to these cays-bus, discagais ammona. When dissolved in mine acid, they do not leave a red stancas happens with uric acid; nor does their souther in water decompose the earthy saits, as happens with a kaline inflates or urates. Neither has it any action on the saits of copper, iron, gold, platinum, tin, or mercury. With nitrates of silver, and mercury, and accrate of lead, it forms a white precipitate, solviole in an excess of nitric forms a winte precipitace socials in acceptance in the solution of these crystals in water. These properties show, that the acad of the submarke is didden at from the mir, and from every other known needs. Fr. Assum tound, that by repeated distillations little acid was re-

solved imo ammonia, intreger, and pressic acid.
When histic acid is projected mao a flask with chlo time, there is formed, in a hade time, murrate of anono nia, oxalate of ammonia, carbonic acid, municipacid the same results are obtained by passing chlorine through water, holding this acid in

suspension.

LITHIUM. The metallic basis of lithia. See Lithia. LITHOIDES. From Moss a stone, and moss a likeness: so called from its hardness. The petrous portion of the temporal bone.

LITHO LABOM. From Autos, a stone, and Aupbarn, to seize. An instrument for extracting the stone from

and  $\lambda_0$ , 05, a discourse., A discourse, or treatise on

LITHOMA'RGA. See Lithomarge. LITHOMARGE. Stone-marrow. A mineral, of which there are two kinds, the triable and the in

LITHONTRIPTIC. (Lithontripticus; from \u00e46)as. a stone, and rooks, to bear away. Lichomorphic From the strict souse and common acceptance of the From the strict sense and consider a compensation word, this class of moderns should compensate he as possess a power of dissecting entering the name, passages. It is, however, doubted by many, whether there he in nature any such substances. By this term, then, is meant those substances which possess a power of the forestion. of removing a disposition in the boards the ferrection of calcula. The researches of moment chemists have proved, that these calculations at mostly of a perminal cold. acid, named the lithic or uric acid. With this sub

stance, the alkalies are capable of uniting, and forming a soluble compound and these are accordingly, among the standard for t the broker he very generally allowed of, and they very sensibly alkaline, and a even capable of exerting a sowent power on these concretions. tranon, however, cannot be continued to this extent for any length of time, from the rintation they produce to the stomach and urmary organs. The use, degreprevent the increase of the concretion, and to pulliate the paintil symptoms, which they do apparently by preventing the generation of little acid, of the separafrom of it by the kid, eys; the urine is thus rendered less minating, and the surface of the calculus is allowed to become singoth.

When the alkalies are employed with this view, they are generally given neutralized, or with excess of car-bonic acid. This renders them has choless initiating, It at the same time, it deed, diminishes their solvent power; for the advance carbonates exert no action on urinary calculi; but they are still capable of correcting that acidity in the prime vie, which is the cause of the deposition of the lithic acid from the urine, and, therefore, serve equally to palliate the disease. And when their acrimony is thus diminished, their use can be

continued for any length of time.

It appears, from the experiments of Fourcroy and others, that some other ingredients of calculi, as well as the fither acid, are dissolved by the caustic alkali. and various experiments have shown, that most calculi yield to its power. It is obvious, however, that what is taken by the mouth is sulject to many changes in the alimentary canal, and also the lymphatic and vascular ystems; and in this way it must be exceedingly difficuit to get such substances (even were they not liable to are rations) in sufficient quantity into the bladder. Indeed, there are very few authenticated cases of the urine being so changed as to become a menstruum for the stone. Excepting the case of Dr. Newcombe, recorded by Dr. Whytt, the instance of Mr. Home is amost the only one. Though hthortuptics, however, may not in general dissolve the stone in the bladder, yet it is an incontrovertible fact, that they frequently to tigate the pain; and to lessen such to time as that of the stone in the bladder, is surely an object of no inthe importance. Lane was long ago known as a tennedy or urnoury calculi, and different methods were employ 1 to administer it. One of these plans fell into the hands of a Mrs. Steevens, and her success caused good anxiety for the discovery of the secret. At last I accument bought the secret for the sum of 5000L many instances, stones which had been unquestionably feit, were no longer to be discovered; and as the same persons were examined by surgeons of the greatest skill and eminence, both before and after the exhibition of her medicines, it was no wonder that the conclusion was drawn, that the stones really were dissolved. From the cessation of such success, and from its now of the muscular coat, and cause no longer any griev ances, surgeors of the present day are inclined to suspect that this must have happened in Mrs. Steevens's cases, This was containly what happened in one of the cases on whom the medicine had been tried. It is evident that a stone so situated, wend not any longer produce initiation, but would also be quite indiscoverable by the sound, for, in fact, it is no longer in the cavity of

the bladder.

As snap was with reason supposed to increase the virtues of the lane, it led to the use of caustic alkali, taken in massage, or veal broth. Take of pure potassa, 'virtues of the slight ware, bij, Mry them well one were in a lange bottle, and let them stand we twenty four bears. Then pour off the leyy other it is rough paper, and keep it in well stopped vials for use. Of this, is close is from thirty drops to 'lij, warners in he recreated two or three times alow in a wagen is in he recreated two or three times alow in a which is to be repeated two or three times a day, in a pint of vert broth early in the morning, at moon, and in the exercise. Continue the plan for three or four months, living, during the course, on such things as least counteract the effect of the medicine.

The common fixed alkalies, or carbonated alkall, diaphragm, in the right hypochondrium, its smaller not the acidulous soda-water, have of late been used portion occupying part of the epigastric region. In the subtraction in the principal dome, surgeon at the Savoy, has recorded its utility in lobes, the right of which is by far the greacest. They and the acidulous soda-water, have of late been used as lithontriptics. Honey has also been given; and Mr. Home, surgeon at the Savoy, has recorded its utility in his own and in his rather's cases. Bitters have likewise been tried.

wise been tried.

Dismissing all theories, lime-water, soap, acidulous soda-water, caustic, alkali, and bitters, are useful in cases of stone. Of the soap, as-much may be taken as the stomach will bear, or as much as will prove gently laxative; but of the lime-water, few can take more than a pint daily.

The acidulous soda-water may be taken in larger

quantities, as it is more agreeable.

There is a remedy celebrated in Holland, under the name of liquor luthontriptica Loosii, which contains, according to an accurate analysis, muriate of lime. This, professor Huisland recommends in the following

R. Calcis muriate 3 j.
Aquæ distillatæ, 5 ij. ft. solutio.
Thirty drops are to be taken four times a-day, which may be increased as far as the stomach will bear.

For curing stone patients, little reliance can be placed in any lithout riptics lutherto discovered, though they may rationally be given, with a confident hope of procuring an alleviation of the fits of pain attending the presence of stone in the bladder. After all, the only certain method of getting rid of the calculus is the

operation. See Lithotomy

["Lithoutriptor. (From λιθος, a stone, and \$ρυπτω, to break.) The name of an instrument, invented by Dr. Civiale of Paris, for reducing calculi in the bladder into small particles or a powder, which is woided with the urine, and lithotomy thus rendered unnecessary. The lithomriptor consists of a straight silver catheter, of considerable diameter, and enclosing another of steel, the lower extremity of which consists of three branches, calculated to grasp the stone on withdrawing the steel catheter a short way within the outer one, when they become approximated. The cavity of the inner catheter is capable of admitting a steel rod, to which may be affixed, at the surgeon's option, a simple quadrangular drill, or a strawberry-shaped file, or a treplune. By means of a spring, the latter part of the apparatus is pressed evenly inwards, and it is made to revolve with velocity through the medium of a bow, after the manner of a common hand drill."—Coop. Sur. Dic. A.] LITHONTRY'PTIC.

(From \u00e4\thetaos, a stone, and

Sove Jω, to break.) See Lithoutriptic. LITHOSPERMUM. (From λίθος, a stone, and σπεομα, seed; named from the hardness of its seed.) 1. The name of a genus of plan's in the Linuxan system. Class, Pentandria; Order, Monegynia.
2. The pharmacoperal name of common gromwell.

See Lethospermum officinale.

LITHOSPERMUM OFFICINALE. The systematic name of the officinal gromwell. The seeds of this officinal plant, Lithespermum-semenibus laveless, corolles vix calmon superentibus, foliis lanceolatis, of Linneus, were formedy supposed, from their stony hadness, to be ediracious in calendous and gravelly disorders. Little credit is given to their lithoutripiic character, yet they are occasionally used as diaretic for dealing the urinary passages, and for obviating strangury, in

the form of emulsion.

THO TOMY. (J. ithotomia; from λιθος, a stone, and τρμοο, to cut; Cystonia. The operation of cuting into the biadder, in order to extract a stone. Several methods have been recommended for perform-Several methods have been recommended for performing this operation, but there are only two which can be practised with any propiety. One is, where the operation is to be performed mucediately above the pubes, in that part of the bladder which is not covered with performent, called the high operation. The other, where it is done in the perinaeum, by laying open the neck and lateral part of the bladder, so as to allow of the extraction of the stone, called the *lateral opera-tion*, from the prostate gland of the neck of the bladder tion, from the pressure plant to the combined prepared from a being laterally cut.

LETMUS. The beautiful blue prepared from a white below. See Lechen roccello.

LETMUS. A limment.

LETMS. A limment.

LETMS. (Repur. fixuo.) A large viscus, of a deep god colour, of great size and weight, situated under the

are divided on the upper side by a broad lightment, and are divided on the apper side by a broad ligament, and on the other state is a can iderable depression or fossas. Between and below these two tones is a smaller lobe, called lobulus spigelii. In describing this viscus, it is necessary to attend to seven principal circumstances:—its ligaments; its surfaces; its margins; its tubercles; its lissure; its sines; and the por bitarii.

The ligaments of the liver are five in number, all arising from the peritonavum. 1. The right lateral ligament, which connects the thick right lobe with the posterior part of the diaphragm. 2. The ligh lateral lagrancet, which cannects the convex surface and margin of the left lobe with the diaphragm.

gin of the left lobe with the diaphragm, and, in those of whom the liver is very large, with the asophagus and spleen. 3. The broad or modelle suspensory uga-ment, which passes from the diaphragm into the con vex surface, and separates the right lobe of the liver from the left. It descends from above through the large fissure to the concave surface, and is then distributed over the whole liver. 4. The round ligament, which in adults consists of the umbilical vein, indurated into

a digament. 5. The coronary trgament.

The liver has two surfaces, one superior, which is convex and smooth, and one inferior, which is convex, and has holes and depressions to receive, not only the contiguous viscera, but the vessels running

The margins of the liver are also two in number; the one, winch is posterior and superior is obtuse, the The tubercles of the liver are likewise two in num-

ber, viz. lobulus anonymus, and lobulus caudatus, and are found near the vena portie.

I pon looking on the concave surface of this viscus, a considerable fissure is obvious, known by the name of the fissure of the liver

In order to expose the sinus, it is necessary to remove the gall-bladder, when a considerable sinus, be fore occupied by the gall-bladder, will be apparent.

The blood-vessels of the liver are the hepatic artery the vena pode, and the vena cave hepatice, which are described under their proper names. The absor-bents of the liver are very numerous. The liver has nerves, from the great intercostal and eighth pair, which arise from the hepatic apexus, and proceed along with the hepatic artery and vena porter into the sub-stance of the liver. With regard to the substance of stance of the liver. With regard to the sub-tance the liver, various opinions have been entertained. is, however, now pretty well ascertained to be a large gland, composed of lesser glands connected together by cellular structure. The small glands which thus com-pose the substance of the liver, are termed penicilli, from the arrangement of the minute ramifica ions of vena porte composing each gland, resembling that the hairs of a pencil. The chief use of this large of the hairs of a pencil. The chief use of this large viscus is to supply a fluid, named bite, to the intestines, which is of the utmost importance in chyllication. The small penicilli perform this function by a specific action on the blood they contain, by which they secrete in their very minute ends the fluid termed hepatic bite, but whether they pour it into what is called a follicle, or not, is yet undecided, and is the cause of the difference of opinion respecting the substance is truly glandular, according to the motion the substance is truly glandular, according to the motion the older anatomists: but if it be secreted more all visconditions as small vessel, called a biliary pore (the existence of which can be demonstrated) corresponding to the end of each of the penicilii, without any intervening folliof the hairs of a pencil. which can be demoistrated, corresponding to the end of each of the penicifil, without any intervening folicle, its substance is then, in their opinion, vascular. According to our notions in the present day, in either case, the liver is said to be glandular; for we have the idea of a gland when any arrangement of vessels per former the office of generating fun the blond a pluid or forms the office of separating from the blood a fluid or substance deferent in its nature from the blood. small vessels which receive the bile secreted by the pencill, are called par biliari; besse converge together throughout the substance of the liver towards it under surface, and, at length, form one trunk, called ductus hepatrens, which conveys the bile into either the ductus requires helpatrens, which conveys the bile into either the ductus comments chaledochus, or ductus cysticus. See

Liver, inflammation of. See Hepatitis.

Liver of sulphur. See Potassæ sulphuretum. LIVERWORT. See Marchanta polymorpha. Liverwort, askecoloured. See Lichen conneus. Liverwort, ground. See Lichen cancius. Liverwort, feeland.

Liverwort, retaind. See Thonen istaicings.

Liverwort, noide. See Marchantia polomorpha.

LIVOR. (From lives, to be black and blue.) Lividness. A black mark, from a blow. A dark circle notes: A bales mark, from a blow. A data the under the eye.

LIX. (From λις, light.) Woodash.

LIX. VIAL. Salts are so called which are extract-

ed by lixiviation

LIXIVIATION. (Lizivialis; from liz, woodash.)

Lessive. The process employed by chemists of dissolving, by means of warm water, the saline and solvole particles of cuders, the residues of distillation and combustion, coals, and natural earths. Salts thus obtained are called Livival salts.

LIXIVIUM. (From hir, woodash.) The liquor in

LIXIVIUM. (From his, woodash.) The liquor in which saline and soluble particles of the residues of distillation and combustion are dissolved.

LINIVIUM SAPONARIUM. See Potassæ liquor. LINIVIUM TARTARI. See Potassæ subcarbonatis

LOBATUS. (From lobus, a lobe.) Lobed. plied to leaves which have the margins of the ments lobed, as in Anemone hepatica, and to such as

ments tobed, as in Simonome nepotices, and to such as are lobed like the vinc thistle, and many geranisms.

LOBB, Theoremets, practised as a physician in London with considerable reputation, and left several works on medical topics. He died in 1763, in the 85th year of his age. He wrote on fevers, small-pox, and year of his age. He wrote on fevers, small-pox, and some other diseases; but his most celebrated publication was, "A Treatise on Solvents of the Stone, and on curing the Stone and the Gout by Aliments," which passed through several editions, and was translated into Latin and French; he considered the morbid matter of an alkaline nature, and vegetable acids as the remedy. He was author also of "A Compendium of the Practice of Physic," and of several papers in the Gentleman's Magazine. in the Gentleman's Magazine.

In the contemnate S.Magazha.

Lobel farf. See Lobaltus.

LOBE'LIA. (Named in honour of Lobel, a botania.)

1. The name of a genus of plants in the Limitary of the contemporary of the contemporary.

2. The pharmacopeini name of the blue lobelia.

See Lobelia syphilitica.

LOBELIA SYPHILITICA. The systematic name of the blue lobelia of the pharmacopeias. The root is the part directed by the Edinburgh Pharmacopeia for medictual use; in taste it resembles tobacco, and is apt to excite vomiting. It derived the name of syphicitical from its efficacy in the cure of syphilis, as experienced by the North American Indians, who considered it as a specific in that disease, and with whom it was long a spectre in that disease, and with whom it was long an important secret, which was perchased by Sir William Johnson, and since published by different authors. The method of employing this medicine is stated as follows: a decoction is made of a handful of the roots in three measures of water. Of this half a measure is taken in the morning fasting, and repeated in the evening; and the dose is gradually increased, till its purgative effects become too violent, when the decoctions is the between the force of the control of the c decoction is to be intermitted for a day or two, and then renewed, until a perfect cure is effected. During the use of this medicine, a proper regimen is to be enjoined, use of this medicine, a proper regimen is to be enjoined, and the decessafe also to be frequently washed with the decection, or if deep and feul, to be sprinkled with the powder of the inner back of the New Jersey teatree, Ceanothus americanus. Although the plant thus used is said to cure the disease in a very short time, yet it is not found that the antisyphilitic powers of the leabling back and a property of the leabling back and the property of the leabling back and the leabli of the lobelia have been confirmed in any instance of European practice.

[LOBELIA INFLATA. See Indian tobacco. A.] LOBULUS. (Dim. of lobus, a lobe.) A small

lobe, as lobulus spigelii.

See Lobulus anonymus LOBULUS ACCESSORIUS. LOBULUS ANONYMIS. See Looutus anonymus.

LOBULUS ANONYMIS. Lobulus accessorius anteriorquadratus. The anterior point of the right lobe of the
liver. Others define it to be that space of the great
lobe between the fossa of the umbilical vein and gallbladder, and extending forward from the fossa for the
ludgment of the course to the apparier artific of lodgment of the vena portæ, to the anterior margin of

LOBULUS CAUDATUS. Processus candatus. A taillike process of the liver, stretching downward from the

middle of the great right lobe to the lobulus spigelil. at is belind the gall bladder, and between the fossa venso portarum, and the fissure for the lodgment of the vena

LOBULUS SPICELII. Lobulus posterior; Lobulus Longues spigeth. Labulus posterior; Labulus posterior; Labulus prosterior papillarios. A lobe of the liver between the two greater lobes, but rather belonging to the right great lobe. From its situation deep behind, and from its having a perpendicular papilla-like projection, it is called lobulus posterior, or papillatus. To the left side it has the fissure for the lodgment of the ductus venosus; on the right, the fissure for the vena cava; and above, it has the great transverse fissure of the liver, for the lodgment of the cylinder of the porta; obliquely to the right and tunwids, it has a connexion with the for the lodgment of the cylinder of the porta; obliquely to the right, and upwards, it has a connexion with the lower concave surface of the great lobe, by the processus candatus, which Winslow calls one of the roots of the lobulus spigelii. It is received into the bosom of the less curve of the stomach.

LOCA LES. (Locales, the plural of localis.) The fourth class of Cullen's Nosology, which comprehends morbid affections that are partial, and includes eight coders, with discreptions described and includes eight

orders, viz. dysæsthesiæ, dysorexiæ, dyscinesiæ, apo-

Conoese, opischesse, unnores, ectopia, and dialyses.

LOCA'LIS. Local. Belonging to a part and not the whole. A common division of diseases is into general and local.

general and local.

Localis membrana. The pia mater.

LO'CHIA. (From  $\lambda o \chi \epsilon v \omega$ , to bring forth.) The Coloured, discharge that takes place from the uterus and yagina of women, during the first four days after delivere.

LOCHIORRHŒ'A. (From λοχια, and ρεω, to flow.) An excessive discharge of the lochia. LOCKED JAW. See Transas.

LOCKED JAW. See Transas.

LOCULAMENTUM. In botany means the space or cell between the valves and partitions of a capsule; distinguished from their number into unilocular, bilocular, δia. See Constitution.

distinguished from their number into uninocular, one-cular, &c. See Copsula. LOCUSTA. A term sometimes applied to the spikelet of grasses. See Spicula. LOGWOOD. See Homatoxylon campechi anum. LOMENTACEÆ. (From homentum; in allusion to the pulse-like nature of the plants in question, so as to the pulse-like nature of the plants in question, so as to keep in view their analogy with the papidionacce.)
The name of an order of plants in Linnaus's Fragments of a Natural Method, consisting of such as have a bivalve pericarpium or legume, and not papilionaceous corolls; as Cassia, Fumaria, Ceretonia, &c.
LOMENTUM. 1. A word used by old writers on medicine, to express a meal made of beams, or bread made of this meal, and used as a wash.

2. A bivalve pericarpium divided into cells by wary.

2. A bivalve pericarpium, divided into cells by very small partitions, never lateral like those of the legume.

From its figure it is termed,
1. Articulation, when the partitions are visible externally; as in Hedysarum argenteum.

2. Moniferame, necklace-like, consisting of a number of little globules; as in Hedysarum moliferum.

3. Aculeatum; as in Hedysarum onobrychis.

4. Crystatum; as in Hedysarum caput galli.

5. Islimis interceptum, when the cells are much narrower than the joints; as in Hippocrepis.

6. Corticosom, the external back being woody, and the insize nullow; as in Cassia fishula.

6. Corticossem, the external bank being woody, and the inside pulpy; as in Cassia fistula.

LOMMUS, Jonovers, was borm in Guelderland, about the commencement of the 16th century. Having received from his father a good classical education, he turned his attention to medicine, which he studied chiefly at Paris. He practised for a considerable time at Tournay, where he was pensionary physician in 1557; and, three years after, he removed to Brussels. The period of his death is not known. He left three small works, which are still valued from the purity and elegance of their Latinity; a Commentary on Celsus; Medicinal Observations, in three books; and a Treatise on the Cure of Continued Fevers: the two latter having been several times reprinted and translatter having been several times reprinted and translated

lated.

LOMONITE. Diphrismatic zeolite.

LONCHI TIS. (From  $\lambda_0$ )  $\chi_0$ , a lance: so named because the leaves resemble the head of a lance.) The herb spleenwort. The Ceterach onicinana herb spleenwort. The Ceterach onicinana Longa Nem. (From longus, long: 80 named from Longa'num. (From tongas, Longa'num. The intestinum rectum.

its length. The intestinum rectum.

LONGING. A desire peculiar to the female, and

only during pregnancy, and those states in which the | moving diseases of the skin, virtues it does not now uterine discharge is suppressed.

LONGISSIMUS. The longest.

Parts are so named from their length, compared to that of others; as lon-

gissimus dorsi, &c.

Longissimus Dorsi. Lumbo dorso trachelien, of Dumas. This muscle, which is somewhat thicker In muscle, which is somewhat thicker the new sacrolumbalis, greatly resembles it, however, in its shape and extent, and arises, in common with that muscle, between it and the spine. It ascends upwards along the spine, and is inserted by small double tendons into the posterior and inferior part of all the transverse processes of the vertebra of the back, and sometimes of the last vertebra of the neck. From its outside it sends off several bundles of fleshy fibres, interspersed with a few tendinous filaments, which are usually inserted into the lower edge of the ten uppermost ribs, not far from their tubercles. In some submost ribs, not far from their tubercles. In some subjects, however, they are found inserted in a less number, and in others, though more rarely, into every one of the ribs. Towards the upper part of this muscle is observed a broad and thin portion of fleshy fibres, which cross and intimately adhere to the fibres of the longissimus dorsi. This portion arises from the upper and posterior part of the transverse processes of the five or six uppermost vertebre of the back, by as many tendinous origins, and is usually inserted by six tendinous origins, and is usually inserted by six tendinous origins, and is usually inserted by six tendinous origins. nous and fleshy slips, into the transverse processes of the six inferior vertebræ of the neck. This portion is described, by Winslow and Albinus, as a distinct muscle; by the former under the name of transversalis major colli, and by the latter under that of trans-versalis cervices. But its fibres are so intimately con-nected with those of the longissimus dorsi, that it may very properly be considered as an appendage to the latter. The use of this muscle is to extend the vertelatter. The use of this muscle is to extend the verte-bras of the back, and to keep the trunk of the body errect; by means of its appendage, it likewise serves to turn the neck obliquely backwards, and a little to one

LONGISSIMUS MANUS. See Flexor tertii internodii

pollicis

LONGITUDINAL. Longitudinalis. Parts are so

named from their direction.

Longitudinal sinus of the dura mater. A triangular canal, proceeding in the falciform process of the dura mater, immediately under the bones of the skull, from the crista galli to the tentorium, where it branches into the lateral sinuses. The longitudinal sinus has a number of trabecuke or fibres crossing it. Its use is to receive the blood from the veins of the pia mater, and convey it into the lateral sinuses, to be carried through the internal jugulars to the heart.

LO'NGUS. Long. Some parts are so named from their comparative length; as longus colli, &c.

LONGUS COLLI. Præ dorso corvical, of Dumas.

This is a pretty considerable muscle, situated close to the anterior and lateral part of the vertebræ of the neck. Its outer edge is in part covered by the rectus internus major. It arises tendinous and fleshy within the thorax, from the bodies of the three superior vertebræ of the back, laterally; from the bottom and fore-part of the transverse processes of the first and second vertebræ of the back, and of the last vertebræ of the neck: and likewise from the upper and anterior points of the transverse processes of the sixth, fifth, fourth, and third vertebre of the neck, by as many small distinct tendons; and is inserted tendinous into the forepart of the second vertebra of the neck, near its fellow. This muscle, when it acts singly, moves the neck to one side; but when both act, the neck is brought directly forwards.

LONI'CERA. The name of a genus of plants in the Linnman system. Class, Pentandria; Order, Mo-

nogynia.

LONICERA DIERVILLA. The systematic name of a species of honeysuckle. Diervilla. The young branches of this species, Lonicera—racemis terminalibus, folius sorratis, of Linawus, are employed in North America as a certain remedy in gonorrhem and suppression of urine. It has not yet been exhibited in Europe.

Honeysuckle. LONICERA PERICLIMENUM. Honeysuckle. This beautiful and common plant was formerly used in the appear to possess.

See Diarrhaa.

LOPEZ. Radiz loperiana; Radiz indica lopezi-ana. The root of an unknown tree, growing, accord-ing to some, at Goa. It is met with in pieces of differ-ent thickness, some at least of two inches diameter-The woody part is whitish, and very light; softer, more spongy, and whiter next the bark, including a denser, somewhat reddish, medullary part. The bark is rough, wrinkled, brown, soft, and, as it were, woolly, pretty thick, covered with a thin paler cuticle. woolly, pretty thick, covered with a thin paler cuticle. Neither the woody nor cortical part has any remarkable smell or taste, nor any appearance of resinous matter. It appears that this medicine has been remarkably effectual in stopping colliquative diarrheas, which had resisted the usual remedies. Those attending the last stage of consumptions were particularly reheved by its use. It seemed to act, not by an astringent power, but by a faculty of restraining and appeasing spasmodic and inordinate motions of the intestines. Dr. Gaubius, who gives this account, compares its action to that of Simarouba, but thinks it more efficacious than this medicine. cious than this medicine.

cious than this medicine.

\*\*Jopez-root.\*\* See Lopez.

\*\*LOPEZIANA RADIN.\*\* See Lopez.

\*\*LOPHA'DIA.\*\* (From λοφός, the hinder part of the neck.) Loppin.\*\* The first vertebra of the neck.

\*\*LORDO'SIS.\* (From λορός, curved, bent.) An affection of the spine, in which it is bent inwards.

\*\*Lo'Rica.\*\* (From lorice, to crust over.) A kind of lute, with which vessels are coated before they are put into the fier.

into the fire

LORICA'TION. Coating. Nicholson recommends the following composition for the coating of glass vessels, to prevent their breaking when exposed to heat. sels, to prevent their breaking when exposed to heat. Take of sand and clay, equal parts; make them into a thin paste, with fresh blood, prevented from coagulating by agitation, till it is cold, and diluted with water; add to this some hair, and powdered glass; with a brush, dipped in this mixture, besmear the glass; and when this layer is dry, let the same operation be repeated twice, or oftener, till the coat applied is about one-third part of an inch in thickness.

LORRY, ANNE-CHARLES, was born near Paris, in 1725. He studied and practised as a physician, with unremitting zeal and peculiar modesty, and obtained a high reputation. At 23, he was admitted doctor of medicine at Paris, and subsequently became doctorregent of the faculty. He was author of several works,

regent of the faculty. He was author of several works, some of which still maintain their value; particularly his Treatise on Cutaneous Diseases, which combines much erudition and accurate observation, with great clearness of arrangement, and perspiculty of language.

He died in 1783. LOTION. (. LOTION. (Lotio; from lavo, to wash.) An external fluid application. Lotions are usually applied by wetting linen in them, and keeping it on the part

LOTUS. (From  $\lambda \omega$ , to desire.) 1. A tree, the fruit of which was said to be so delicious as to make those who tasted it forsake all other desires; hence the proverb,  $\Lambda \omega rov$  effector, lotum gustavi: I have tasted lotus.

2. The name of a genus of plants in the Liunzean system. Class, Diadelphia; Order, Decandria. LOUIS, Anthony, was born at Metz, in 1723. He attained great reputation as a surgeon, and was ho-LOUIS, APHONY, was born at Metz, in 1725. He attained great reputation as a surgeon, and was honoured with numerous appointments, and marks of distinction, as well in his own as in foreign countries. He wrote the surgical part of the "Encyclopédie," and presented several interesting papers to the Royal Academy of Surgery, of which he was secretary: besides which, he was author of several works on anatomical, medical, and other subjects. In a memoir, on the legitimacy of retarded births, he maintains that the detention of the fætus, more than ten days beyond the ninth month, is physically impossible.

LOVAGE. See Liguesticum levisticum.

LOVEAPPLE. See Salanum lycopersicum.

LOVEAPPLE. See Salanum lycopersicum.

LOVEAPPLE See Salanum lycopersicum and the year 1631. He graduated at Oxford, and having materially assisted the celebrated Dr. Willis, in his dissections, he was introduced into practice by that physician. In 1655, he published a defence of Willis's work on Fevers, displaying much learning and ingenuity. But his most important performance was en-

tuted, "Tractatus de Corde, item de motu et calore Sanguinis, et Chyli in eum transitu," printed four years after. He demonstrated the dependence of the motions of the heart upon the nervous influence, and reterred the red colour of arterial blood to the action referred the red colour of arterial theoretis are action of the air in the lungs; he also gave an account of his experiments, made at Oxford in February, 1665, on the transfusion of blood from one living animal to another, of which an abstract had before appeared in the Philosophical Transactions. He afterward practised this upon an insane person, before the Royal So-ciety, of which he was admitted a fellow in 1667, as well as of the College of Physicians. The reputation well as of the College of Physicians. The reputation acquired by these, and some other minor publications, procured him extensive practice, particularly after the death of Dr. Willis; but his political opinions brought him into discredit at court, and he declined considerably before the close of his life, in 1691. The operation of transfision was soon exploded, experience having shown that it was attended with permeious conse-

LOXA'RTHROS. (From λυξος, oblique, and αρθρον, a joint.) Loxarthrus. An obliquity of the joint, with-

out spasm or luxation.

LOXIA. (From hotos, oblique.) The specific name in the genus Entasia of Good's Nosology, for wry neck.

in the genus Entasta of Good's Nosology, for wry neck. ["Also, in Ornithology, the name of a genus of bids, including the Grosbeaks, or Crossbills, of which there are numerous species." A.]
LUCULLITE. A species of limestone.
LUDES HELMONTH. Ludus paracelsi. The waxen voin. A stony matter said to be serviceable in calculus.
LUDWIG, CHRISTIAN TREOFILLIS, was born in Silesia in 1709, and educated for the medical professions. Having a strong bias towards natural history, he went on an expedition to the north of Africa: and soon after his return, in 1733, he became professor of medi-cine at Leipsic. The first thesis defended there under his presidency related to the manner in which marine plants are nourished; which he showed not to be by the root, as is the case in the generality of the vegetable kingdom. He afterward published several botanical works, in which he finds many objections to the Linnæan arrangement, rather preferring that of Rivinus; but on very unsatisfactory grounds. Elementary works were likewise written by him on the different branches of medical knowledge. A more important work is entitled "Adversaria Medico-practica," in three octavo volumes. He has given an account of his trials of Stramonium and Belladonna in collepsy, by no means favourable to either. He died in 1773.

LUES. (Lues, is. f.; from \(\lambda\_{\text{uw}}\), to dissolve, because it produces dissolution.) A pestilence, poison, plague. Lues defice. One of the many pompous names

formerly given to epilepsy.

LUES NEURODES. A typhus fever. LUES VENEREA. The plague of Venus, or the venc-

LUES VENEREA. The plague of Venus, or the venereal disease. See Syphilis.

LUISIN'S, Loris, was born at Udina, where he obtained considerable reputation about the middle of the 16th century. He translated Hippocrates's aphorisms into Latin hexameters: and published a treatise on regulating the affections of the mind by moral philosophy and the medical art: but his most celebrated work is entitled "Aphrodistacus," printed at Venice, in two folio volumes: the first containing an account of preceding treatises on syphilis, the second comprehended principally the manuscript works on the subject which bad not then been committed to the press.

LUJULA. (Corrupted or contracted from Allediah, Praise the Lord; so called from its many virtues.)

jah, Praise the Lord; so called from its many virtues.)

See Ozalis ascetosella.

LUMBA'GO. (From lumbus, the loin.) A rheu-matic affection of the muscles about the loins. See

Rheumatismus.

LUMBAR. Lumbalis. Belonging to the loins.

LUMBAR ABSCESS. Psoas abscess. A species of erthropuosis, that receives its name from the situation in which the matter is found, namely, upon the side of the psoas muscle, or between that and the lilacus internus. Between these muscles, there lies a quantity of loose cellular membrane, in which an inflammation often takes place, either spontaneously or from me-chanical injuries. This terminates in an abscess that can procure no outlet but by a circuitous course in which it generally produces irreparable mischief, withviolent symptoms occurring to alarm the Qut any

patient. The abscess sometimes forms a swelling patient. The assess sometimes torms a swems, above Poupart's ligament, sometimes below it; and frequently the matter glides under the fascia of the thigh. Occasionally, it makes its way through the sacro-ischnate foramen, and assumes rather the appearance of a fisula in ano. The uneasiness in the loms, and the impulse communicated to the tumour by coughing, evince that the disease arises in the lumbar region; but it must be confessed, that we can hardly ever know the existence of the disorder, before the tu-mour, by presenting itself externally, leads us to such The lumbar abscess is sometimes connected with diseased vertebre, which may either be a cause or effect of the collection of matter. however, is frequently unattended with this complica-

tion.

The situation of the symptoms of lumbar abscess renders this affection liable to be mistaken for some other, viz. lumbago and nephritic pains, and, towards to a mistaken for crural or femoral hernia. The first, its termination, for crural or femoral hernia. however, is not attended with the shivering that occurs here; and nephritic complaints are generally discoverable by attention to the state of the urine. The dis-tinction from crural hernia is more difficult. In both, a soft inclusive serious nervisions in more diment. In Doffi, a soft inclusive switching is felt in the same situation; but in hernia, it is attended with obstructed faces, vomiting, &c. and its appearance is always sudden, while the fundar tumour is preceded by various complaints before its appearance in the thigh. In a horizontal pasture the disease all rates the zontal posture, the abscess also totally disappears, while

the hernia does not.

Lumbar regions. The loins.

Lumbaris externies. See Quadratus lumborum. Lumbaris internies. See Psous magnus. Lumbaris internies. See Psous magnus. LUMBRICA'US. (Lumbricalis musculus; from its resemblance to the lumbricus, or earth worm.) A name given to some muscles from their resemblance to a worm.

LUMBRICALIS MANUS. Fidicinales. Flexor primi internodii digitorum manus, vel perforatus lumbricalis, of Cowper; Anuli tendino-phalangiens, of Dumas. The small flexors of the fingers which assist the hending the tingers when the long flexors are in full action. They arise thin and fleshy from the outside of the tendons of the flevor profundus, a little above the lower edge of the carpal ligaments, and are inserted by long slender tendons into the outer sides of the broad tendons of the interosseal muscles, about the middle of the first joints of the fingers.

first joints of the fingers.

LUMBRICALES PEDIS. Plantitendino-phalangien, of
Dumas. Four muscles like the former, that increase
the flexion of the toes, and draw them inwards.

LUMBRICUS. (AT Lubricitate; from its slipperiness.) Ascaris lumbricoides; Lumbricus teres The
long round worm. A species of worm which inhabits
occasionally the human intestines. It has three nipples at its head, and a triangular mouth in its middle.
Its length is from four to twelve inches, and its thickness when twelve inches four about that of a mores. as rengin is non-lour to welve inches, and its thickness, when twelve inches long, about that of a goosequiil. They are sometimes solitary, at other times very numerous. See Worms.

Lembricus terrestris. Vermis terrestris. The earth worm. Formerly given internally when dried and pulverized as a diuretic.

LUNA. (Luna, & f.; à lucendo.) 1. The 12. The old alchemistical name of silver.

2. The old algebrashead barbe of silver.

Luna cornea. Muriate of silver.

Luna plena. A term used by the old alchemists in the transmutation of metals.

Lunar caustic. See Argenti nitras.

LUNA RE OS. One of the bones of the wrist.

Lunaria rediviva. Bulbonach of the Germans.

Satin and honesty. It was formerly esteemed as a warm diuretic.
LUNA TICUS. (From luna the moon; so called

because the malady returns, or is aggravated, or influenced by the moon.)

1. A lunatic.

2. A disease which appears to be influenced by the

LUNG. Pulmo. The lungs are two viscera situated in the chest, by means of which we breathe. The lung in the right cavity of the chest is divided into three the chest, attached at their superior part to the neck, by means of the trachea, and are separated by the mediastinum. They are also attached to the heart by means of the pulmonary vessels. The substance of the lungs is of four kinds, viz. vesicular, vascular, bronchial, and parenchymatous. The vesicular substance is composed of the air-cells. The vascular invests those cells like a net-work. The bronchial is formed by the ramifications of the bronchia throughout the lungs, having the air-cells at their extremities; and the spongy substance that connects these parts is termed the spongy substance that connects these parts is termed the parenchyma. The lungs are covered with a fine membrane, a reflection of the pleura, called pleura pulmonalis. The internal surface of the air-cells is covered with a very fine, delicate, and sensible membrane, which is continued from the larnyx through the trachea and bronchia. The arteries of the lungs are the bronchial, a branch of the aorta, which carries blood to the lungs for their nourishment; and the pulmonary, which circulates the blood through the aircells to undergo a certain change. The pulmonary veins return the blood that has undergone this change, by four trunks, into the left auricle of the heart. The bronchial veins terminate in the vena azygos. nerves of the lungs are from the eighth pair and great intercostal. The absorbents are of two orders; the superficial, and deep-seated: the former are more readily detected than the latter. The glands of these viscera

superficial, and deep-seated: the former are more readily detected than the latter. The glands of these viscera are called bronchial. They are muciparous, and situated about the bronchia. See Respiration.

LUNG WORT. See Pulmonaria officinalis.

LUNULATUS. Crescent-shaped, or half-moonlike: a term applied to leaves, pods, &c. which are so shaped, whether the points are directed towards the stalk, or from it; as in the leaves of Passifiora lunata, and legumen of Medicago foliata.

LUPIA. (From λυπεω, to molest.)

1. A πenus of disease, including encysted tumours,

1. A genus of disease, including encysted tumours,

1. A genus of disease, including encysted tumours, the contents of which are very thick, and sometimes solid; as meliceris, atheroma, steatoma, and ganglion.

2. (From lupus, a wolf: so called because it does not cease to destroy the part it seizes.) A malignant ulcer which eats away the soft parts on which it appears, laying bare the bones and cartilages, and which is

equally fatal with the cancer.

LUP'INUS. (So called by Pliny and other ancient Professor Martin says the word owes its origin to Lupus, a wolf, because plants of this genus Tayles, a won, because plants of this igenus ravage the ground by overrunning it, after the manner of that animal. It is also derived from λυπη, grief: whence Virgil's epithet, tristes lupins; from the fanciful idea of its acrid juices, when tasted, producing a sorrowful appearance on the counternance.) The name of a genus of plants. Class, Diadelphia, Order, Decandria.

2. Under this term the white lupin is directed in

some pharmacopoias.

Library Albus. The systematic name of the white Lurinus aldus. The systematic name of the white lupin. The seed, the ordinary food of mankind in the days of Galen and Pliny, is now forgotten. Its farinaceous and bitter meal is occasionally exhibited to remove worms from the intestines, and made into poul-

tices to resolve indolent tumours.

LUPULIN. Lupuline. The name given by Dr. LUPULIN. Lupuline. The name given by Dr. Ives, of New York, to an impalpable yellow powder, in which he believes the virtue of the hop to reside, and which may be obtained by beating and sifting the hops used in brewing. It appears to be peculiar to the famale plant, and is probably secreted by the nectaria. In preserving beer from the acetous fermentation, and in communicating an agreeable flavour to it, lupuling the communicating that the communication is a second to the second the the s was found to be equivalent to ten times its weight of hop leaves

nop leaves.

LUPULUS. (From λυπη, dislike: so named from its bitterness.) See Humulus.

LUPUS. 1. The wolf, so named from its rapacity.

2. The cancer is also so called, because it eats away

the flesh like a wolf.

LURIDE. The name of an order of plants in Linnæus's Fragments of a Natural Method, consisting of those which prove some deadly poison; the corolla mostly monopetalous; as Datura, Solanum, Nico-

LUSTRA'GO. (From lustro, to explate: so called because it was used in the ancient purifications.) Plut or base vervain.

LUSUS. A sport.

LUSUS NATURE. A sport of nature; a monster

LUTE. See Lutum.

LUTEA CORPORA. See Corpus luteum. LUTE OLA. (From lutum, mud; because it grows in muddy places, or is of the colour of mud.) Reseda luteola.

Reseal tuteola.

LUTUM. (From \( \text{\text{buro}}\_5\), soluble.) Comentum.

Mud. Lute. A composition with which chemical vessels are covered, to preserve them from the violence of the fire, and to close-exactly their joinings to each other, to retain the substances which they contain

other, to retain the substances which they contain when they are volatile and reduced to vapour.

LUXATION. (Luxatio; from luxo, to put out of joint.) A dislocation of a bone from its proper cavity.

Lyca'Nche. (From λuκο, a wolf, and αγχω, to strangle.) A species of quincy, in which the patient makes a noise like the howling of a wolf.

Lycanthro file. (From λυκος, a wolf, and ανθρωπος, a man.) A species of insanity, in which the patients leave their houses in the night, and wander about like

wolves, in unfrequented places. LY'CHNIS. (From  $\lambda \nu \chi \nu \sigma \varsigma$ , a torch; because the ancients used its leaves rolled up for torches.) 1. A

name of several vegetable productions.

2. The name of a genus of plants. Class, Decan dria; Order, Pentagynia.

dria; Order, Pentagynia.
Lychnis sedetum. See Agrostemma githago.
LYCHNOIDES. (From lychnis, the name of a plant, and ecfos, resemblance.) Like the herb lychnis.
Lychnoides sedetum. See Agrostemma githago.
LYCOCTONUM. (From lycos), a wolf, and krewo,
to slay: so called because it was the custom of hunters to secrete it in raw flesh, for the purpose of destroying wolves). The Aconium lycoctomm.
LYCOPERDON. (From lycos), a wolf, and wepfor,
to break wind: so named because it was supposed to
spring from the dung of wolves). I. The name of a

spring from the dung of wolves.) 1. The name of a genus of plants in the Linnaan system. Class, Cryptogamia; Order, Fungi

2. The pharmacopæial name of the puff-ball. See

Lycoperdon bovista.

Lycopernon opvista. The systematic name of the puff-ball. Crepitus lupi. A round or egg-shaped fungus, the Lycoperdon; subrotundum, lacerato dehiscens, of Linnæus; when fresh, of a white colour, with cens, of Linneus; when tresh, of a white colour, with a very short, or scarcely any pedicle, growing in dry pasture grounds. When young, it is sometimes cover-ed with tubercles on the outside, and is pulpy within. By age it becomes smooth externally, and dries inter-nally into a very fine, light, brownish dust, which is used by the common people to stop hæmorrhages. See Lycoperdon.

LYCOPERDON TUBER. The systematic name of the uffle. Tuber cibarium, of Dr. Withering. A solid fungus of a globular figure, which grows under the surface of the ground without any roots or the access surface of the ground without any roots or the access of light, and attains a size from a pea, to the largest potato. It has a rough, blackish coat, and is destitute of fibres. Cooks are well acquainted with its use and qualities. It is found in woods and pastures in some parts of Kent, but is not very common in England. In France and Spain, truffles are very frequent, and grow to a much larger size than they do here. In these places the peasants find it worth their while to search for them, and they train up dogs and swine for this purpose, who, after they have been inured to their smell by their masters frequently placing them in their way, will readily scrape them up as they ramble the fields and woods

licids and woods.

LYCOPETRSICUM. (From λυκος, a wolf, and περοικου, a peach: so called from its exciting a violent degree of lust.) Lycopersicom. Wolf's peach. Love apple. See Solanum lycopersicom.

LYCOPO DIUM. (From λυκος, 2 wolf, and πους, a foot: so called from its supposed resemblance.) 1.

The name of a genus of plants in the Linnæan system. Class, Cryptogamia; Order, Musci.

2. The pharmacopæial name of the club-moss. See

Lycopodium clavatum.

Lycopodium clavatum. The systematic name of the club-moss. Wolf's claw. Muscus clavatus. This plant affords a great quantity of pollen, which is much esteemed in some places to sprinkle on young children, to prevent, and in the curing parts which are fretting. A decection of the herb is said to be a specific in the A decoction of the new cure of the plica polonica.

The systematic name of The decoc-

Lycopophi w selago. The systematic name of the upright club moss. Muscus erectus. The decoc-

gative, and was formerly on that account employed to produce abortions.

LYCO PSIS. (From λυκος, a wolf, and οψις, an aspect: so called from its being of the colour of a aspect: so called from its being of the colour of a wolf, or from the circumstance of the flowers being ringent, and having the appearance of a griming mouth. The herbage is also furnished, says Ambrosinus, with a sort of rigid harimess similar to the coat of a wolf.) I. The name of a genus of plants. Class, Pentandria; Order, Monogynia.

2. The pharmacopæial name of the Wall-bugloss, Echium agyptiacum, the Asperugo agyptiaca of Wildman.

Phow. CPUS. (From  $\lambda u \kappa o_5$ , a wolf, and  $\pi o u_5$ , a foot: named from its likeness.) The name of a genus of ants in the Linnwan system. Class, Diandvia; so named from its likeness.) The plants in the Linnaan system. Order, Monogynia. Wolf's-claw, or water hoarhound.

LYCOPUS EUROPEUS. This plant is sometimes used

as an astringent.

[LYCOPUS VIRGINICA. See Bugle weed. A.]

Lydian stone. A flinty slate. Lygi's Mus. (From λυγιζω, to distort.) A disloca-

Ly'ous. (From λυγιζω, to bend: so called from its flexibility.) The agnus castus.

LYMPH. Lympha. The liquid contained in the lymphatic vessels. Two processes may be employed to procure lymph. One is to lay bare a lymphatic vessel, divide it, and receive the liquid that flows from it; but this is a method difficult to execute, and besides, as the lymphatic vessels are not always filled with lymph, it is uncertain: the other consists in letting an animal last during four or five days, and then extracting the fluid contained in either the thoracic duct.

The liquid obtained in either way has at first a slightly opaline rose colour. It has a strong spermatic odour: a salt taste; it sometimes presents a slight yellow tinge, and at other times a red madder colour.

But kroup does not long remain liquid: at enguests. as the lymphatic vessels are not always filled with

yenow ringe, and at other times a rea madder colour.

But lymph does not long remain liquid; it congeals.

Its rose colour becomes more deep, an immense muthber of reddish filaments are developed, irregularly arborescent, and very analogous in appearance to the
vessels spread in the tissue of organs.

When we examine carefully the mass of lymph thus casquiated, we find it formed of two parts; the one solid, and forming a great many cells, in which the other remains in a liquid state. If the solid part be

emer remains in a liquid state. If the solid part be separated, the liquid congenis again. The quantity of lymph procured from one animal is but small; a dog of a large size scarcely yields an ounce. Its quantity appears to increase according to the time of fasting.

The solid part of the lymph, which may be called clot, has much analogy with that of the blood. It becost, nes much audrogy with that of the blood. It becomes scatter-red by the contact of oxygen gas, and purple when plunged in carbonic acid.

This specific gravity of lymph is to that of distilled water as 1022.28 1000 00.

| hevreuil analyzed the lymph of the dog: |       |
|---|-------|
| Water,                                  | 926-4 |
| Fibrin,                                 | 004.2 |
| Albumen,                                | 61.0  |
| Muriate of Soda,                        | 6.1   |
| Carbonate of Soda,                      | 1.8   |
| Phosphate of Lime                       | 20    |
| Phosphate of Lime,                      | 0.5   |
| Carbonate of Lime,                      | -     |
| Carbonate of Lime,                      |       |
| Total                                   | 0.000 |
| 10[3]                                   | 10000 |

Its specific gravity is greater than water; in consistence, it is thin and somewhat viscid. The quantity in the human body appears to be very great, as the system of the lymphatic vessels forms no small part of it. Its constituent principles appear to be albuminous water and a little salt. The lymphatic vessels absorb this fluid from the tela cellulosa of the whole body, from all the viscora and the cavities of the vis cera; and convey it to the thoracic duct, to be mixed with the chyle.

The use of the lymph is to return the superfluous nutritious jelly from every part, and to mix it with the chyle in the thoracic duct, there to be further converting to the chyle in the thoracic duct, there is to be further converting to the chyle. ed into the nature of the animal; and, lastly, it has some branches accompanying the internal iliac artery; mixed with it the superfluous aqueous vapour, which they then ascend to the sacrum, where they form a

tion of this plant acts violently as a vomit and a pur- is effused into the cavities of the cranium, thorax, ab-

domen, &c. LYMPHATIC. (Lymphaticus; from lympha,

hymph.) 1. Of the nature of lymph.

2. An absorbent vessel, that carries a transparent fluid, or lymph. The lymphatic vessels of the human fluid, or lymph. The lymphane vessels of the human body are small and transparent, and originate in every part of the body. With the lacted vessels of the intestines, they form what is termed the absorbent system. Their termination is in the thoracic duct. See absorbent, Lacted, and Thoracic duct.

Lymphatics of the head and neck.—Absorbents are

found on the scalp and about the viscera of the neck, which unite into a considerable branch, that accom which the limb a considerable orange, that accompanies the jugular vein. Absorbents have not been detected in the human brain; yet there can be no doubt of there being such vessels; it is probable that they pass out of the cranium through the canalist caroticus and foramen lacerum in basi cranii, on each side, and join the above jugular branch, which passes through some glands as it proceeds into the chest to the

angle of the subclavian and jugular veins.

The absorbents from the right side of the head and neck, and from the right arm, do not run across the neck, to unite with the great trunk of the system; they have an equal opportunity of dropping their contents into the angle between the right subclavian and the jugular vein. These vessels then uniting, form a trunk, which is little more than an inch, nay, sometimes not a quarter of an inch, in length, but which has nearly as great a diameter as the proper trunk of the

This vessel lies upon the right subclavian vein, and receives a very considerable number of lymphatic vesreceives a very considerable number of lymphatic ves-sels; not only does it receive the lymphatics from the right side of the head, thyroid gland, neck, &c. and the lymphatics of the arm, but it receives also those from the right side of the thorax and diaphragm, from the lungs of this side, and from the parts supplied by the mammary artery. Both in this and in the great trunk, there are many valves.

Of the upper extremities .- The absorbents of the of the upper extremities.—The absorbents of the upper extremities are divided into superficial and deep-seated. The superficial absorbents ascend under the skin of the hand in every direction to the wrist, from whence a branch proceeds upon the posterior surface of the fore-arm to the head of the radius, over the internal condyle of the humerus, up to the axilla, receiving several branches as it proceeds. Another branch proceeds from the wrist along the anterior part of the fore-arm, and forms a net-work, with a branch coming over the ulna from the posterior part, and ascerds on the inside of the lumerus to the glands of the axilla. The deep-scated absorbents accompany the larger blood-vessels, and pass through two glands about larger plood-vessels, and pass infrought two glands about the middle of the humerus, and ascend to the glands of the axilla. The superficial and deep-seated absorbents having passed through the axillary glands, form two trunks, which unite into one, to be inserted with the jugular absorbers into the thoracic duct, at the angle formed by the union of the subclavian with the jugular vein.

Lymphetics of the inferior extremities.—These are also superficial and deep seated. The superficial ones lie between the skin and muscles. Those of the toes and foot form a branch, which ascends upon the back of the foot, over the tendon of the cruræus anticus, forms with other branches a plexus above the ankles, then proceeds along the tibia over the knee, sometimes then proceeds along the tibia over the knee, sometimes passes through a gland, and proceeds up the inside of the thirth, to the subinguinal glands. The deep-scated absorbents follow the course of the arteries, and accompany the femoral artery, in which course they pass through some glands in the leg and above the knee, and then proceed to some deep-scated subinguinal glands. The absorbents from about the external parts of the nubes as the point and princing and from the of the pubes, as the penis and perineum, and from the external pants of the pelvis, in general, proceed to the inguinal glands. The subinguinal and inguinal glands send forth several branches, which pass through the abdominal ring into the cavity of the abdomen.

Of the abdominal and thoracic vicera. - The absorbents of the lower extremities accompany the external fine a transport of the both and the same beautiful and the same branches from the uterus, urinary bladder, spermatic chord, and some branches accompanying the internal iliac artery;

plexus, which proceeds over the psoas muscles, and meeting with the lacteals of the mesentery, form the thoracic duct, or trunk of the absorbents, which is of a scrpentine form, about the size of a crow-quill, and runs up the dorsal vertebræ, through the posterior opening of the diaphragm, between the aorta and vena azygos, of the diaphragm, between the aorta and vent azygos, to the angle formed by the union of the left subclavian and jugular veins. In this course it receives:—the absorbents of the kidneys, which are superficial and deep-seated, and unite as they proceed lowards the thoracic duct: and the absorbents of the spheen, which are upon its peritoneal coat, and unite with those of the pancreas:—a branch from the plexus of vessels passing above and below the duodenum, and formed by the absorbents of the stomach, which come from the less and greater curvature, and are united about the volvings with those of the hancrogs and liver, which pylorus with those of the pancreas and liver, which converge from the external surface and internal parts towards the porte of the liver, and also by several

branches from the gall-bladder.

Use of lymphatics.—The office of these vessels is to take up substances which are applied to their mouths; thus the vapour of circumscribed cavities, and of the cells of the sellular membrane, are removed by the lymphatics of those parts; and thus mercury and other substances are taken into the system when rubbed

on the skin.

The principle by which this absorption takes place, is a power inherent in the mouths of absorbing vessels a vis insita, dependent on the high-degree of irritability of their internal membrane by which the vessels con-tract and propel the fluid forwards. Hence the use of this function appears to be of the utmost importance, viz. to supply the blood with chyle; to remove the su-perfluous vapour of circumsbribed cavities, otherwise dropsies, as hydrocephalus, hydrothorax, hydrocardia, ascites, hydrocele, &c. would constantly be taking place: to remove the superfluous vapour from the cells of the cellular-membrane dispersed throughout every part of the body, that anasarca may not take place: to remove the hard and soft parts of the body, and to convey into the system medicines which are applied to the surface of the body.

LYMPHATIC GLANDS. Glandulæ lymphaticæ. Conglobate gland.

Lypo'MA. See Lipoma. LYPA. (From Auga, a lyre, or musical instru-ment.) Psalterium. The triangular medullary space between the posterior extra of the fornix of the cerebrum, which is marked with prominent medullary fibres that give the appearance of a lyre.

LYRATUS. (From lyra, a musical instrument.)
Lyratus or lyre-shaped. A leaf is so named which is
cut into transverse segments, generally longer towards
the extremities of the leaf, which is rounded as in

Erysimum barbaria.

Ly'rus. (From lyra, the lyre: so called because its leaves are divided like the strings of a lyre.) See Arnica montana.

nica montana.

Lystey'ta. (From \(\nu\)v\(\omega\), to loosen, and \(\nu\)v\(\omega\), a member.) The relaxation of limbs.

LYSIMA'CHIA. (From \(Ly\)simachus, who first discoveredit.) The name of a genus of plants in the Linnaxan system. Class, \(Pontandria\); Order, \(Monegy\)nica. Lysimachia Nomeluratia. The systematic name of the money-wort. \(Numularia\); Hirundinaria; Centimorbia. Money-wort. This plant is very common in our ditches. It was formerly accounted vulnerary; and was said to possess antiscorbutic and restringent qualities. Boerhaave looks upon it as similar to \(2\) qualities. Boerhaave looks upon it as similar to a mixture of scurvy-grass with sorrel.

mixture-of scurvy-grass with sorrel.
Lysinacina purpurea. See Lythrum salicaria.
LYSSA. (Avora, rabies.) The specific name in
Good's Nosology for hydrophobia. Entasia lyssa.
Lyssopt'crus. (From Avora, canine madness, and
barryut, to bite.) One who is mad in consequence of
having been bitten by a mad animal.
LYTHRODES. See Scapolite.
LYTHRUM. (From Avora, consequence of
lants in the Linnean system. Class, Dodecandria;
Order. Disamia. Order, Digynia.

LYTHRUM SALICARIA. Lysimachia purpurea. The systematic name of the common or purple willow-herb. The herb, root, and flowers possess a considerable degree of astringency, and are used medicinally in the cure of diarrhœas and dysenteries, fluor albus, and

LYTTA. (The name of a genus of insects.) See Cantharis.

This letter has two significations. When herbs, [ flowers, chips, or such-like substances are ordered in a prescription, and M. follows them, it signifies manipulus, a handful; and when several ingredients have been directed, it is a contraction of misce; thus,

"m. f. haust. signifies mix and let a draught be made.

Maca'ndon. (Indian.) A tree growing in Malabar,
'the fruit of which is roasted and eaten as a cure for dysenteries, and in cholera morbus, and other com-

plaints.

MACANOCOTLI'FERA. The name of a tree in the West Indies, the fruit of which is sweet and laxative. A decoction of the bark of this tree cures the itch, and the powder thereof heal ulcers.

MACBRIDE, DAVID, was born in the county of Antrim, of an ancient Scotch family, in 1726. After serving his apprenticeship to a surgeon, he went into serving his apprenticesmp to a surgeon, he went into the navy, where he remained some years. At this period he was led to investigate particularly the treat-ment of scurvy, upon which he afterward published a treatise. After the peace of Aix-la-Chapelle, he attended the lectures in Edinburgh and London; and about the end of 1749, settled in Dublin as a surgeon and accoucheur, but his youth and modesty greatly retarded his advancement at first. In 1764, he published his Experimental Essays, which were every where received with great appliance; and the University of Glasgow conferred on him a Doctor's degree. For physic; which he published in 1772: this work dissophical views of pathology; and contained a new arrangement of diseases, which appeared to Dr. Cullen of sufficient importance to be introduced into his system of nosology. His merit being thus displayed, he got into very extensive practice; indeed, he was so much harassed, that he suffered for some time an almost total cold becomes natusset, that nestmered for some time an amost total incapacity for sleep; when an accidental cold brought on high fever and delirium, which terminated his existence towards the close of 1778.

istence towards the close of 1776.

MACE. See Myristica moschala.

Macedonian parsley. See Bubon masedonicum.

Macedonisis Mind Edwin. See Smyrnium olusatrum.

Ma'Cre. (From mase, Hebrew.) Grecian maser or mace. The root which is imported from Barbaryby this name, and is supposed to be the simarouba, and is said to be anti-dysenteric.

MACERA TION. (Maceratic: from macera. in

MACERATION. (Maceratio; from macero, to soften by water.) in a pharmaceutical sense, this term implies an infusion either with or without heat, wherein

implies an infusion either with or without heaf, wherein the ingredients are intended to be almost wholly dissolved in order to extract their virtues.

MAOSEO'NA. See Smyrniam of usatrum.
MACHE'RON. Macharis. The amputating kaffe MACHA'ON. The proper name of an ancient physician, said to be one of the sons of Esculaplus; whence some authors have fancied to dignify their own inventions with his name, as particularly a colliprium, described by Scribonius, initialed, Asclepius Machaonis; and hence also, medicine in general is by some called Ars Machaonia.

MACHINAME KTUM ARISTIONIS. A machine force.

MACHINAME NTUM ARISTIONIS. A machine for meducing dislocation.

MA'CIES. Emaciation. See Atrophy and Tabes. MA'CIS. Mace. See Myristica. MACKAREL. This delicious fish is the Scomber

scomber of Linneus. When fresh it is of easy diges tion, and very nutritious. Pickled and salted, it becomes hard and difficult for the stomach to manage.

[The Scomber genus forms a family of fish, most of which are remarkable for their beauty and elegance, as which are reinarkable for their beauty and elegance, as well as for their qualities of being generally good food. The New-York markets are supplied with abundance of mackarel in their season. There are eight species frequenting the ocean and waters adjacent to this city, and they are all eatable; some of them, however, are more abundant than others. We have the following.

- Scomber grex, vernalis,
  - ductor,
  - maculatus,
  - zonatos, and

MACQUER, Joseph, was born at Paris, in 1710, where he became doctor of medicine, professor of pharmacy, and censor royal. He was likewise a member of some foreign academies, and conducted the medical and chemical department of the Journal des Sgavans. He pursued chemistry, not so much with a view of multiplying pharmaceutical preparations, as had been mostly the case before, but, rather as a branch of natural philosophy; and gained a considerable reputation by publishing several useful and popular works on the subject. The most laborious of these was a dictionary in two octavo volumes; subsequently translated into English by Keir, with great improvements. He published also "Formula Medicamentorum Magistralium," and had a share in the composition of the Pharmacopeia Parisiensis of 1758. His death occurred in 1784

MACROCE PHALUS. (From μακρος, long, and κτψαλη, the head.) The name of a whale fish. See Physeter macrocephalus. (From μακρος, long, MACROPHYSOCE PHALUS. (From μακρος, long,

φυσις, nature, and κεφαλη, the head, so called from the length of the head.) One who has a head unnaturally long and large. This word, according to Turton, is long and large. This word only used by Ambrose Paré.

MACRO PIPER. (From μακρος, long, and πεπερι,

MACRO PIPER. (From μακρος, long, and πεπερι, pepper.) See Prepr longum.

MACROPNCE'A. (From μακρος, long, and πνεω, to breathe.) A difficulty of breathing, where the inspirations are at long intervals.

MA'CULA. A spot, a permanent discoloration of some portion of the skin, often with a change of its texture, but not connected with any disorder of the exercitation. constitution.

MACULA MATRICIS. A mother's mark. See Mavus

MACULATUS. Spotted: applied in botany to stems, petals, &c. as the stem of the common hemlock, Contum maculatum; the petals of the Digitalis

purpurea.

Mad-apple. See Solanum melongena.

MADARO'SIS. (From µados, bald, without hair.)

A defect or loss of eyebrows or eyelashes, causing a disagreeable deformity, and painful sensation of the eyes, in a strong light

eyes, in a strong ignt.

MADDER. See Rubia.

MADNESS. See Melancholia, and Mania.

Madness, canine. See Hydrophobia.

MA'DOR. Moisture. A sweating.

MADREPORA. Madrepore. 1. A genus in natural history, of the class, Vermes; and order, Zoophyta.

ral history, of the class, Vermes; and order, Zoophyta. An animal resembling a Medusa.

2. A species of coral. It consists of carbonate of lime, and a little animal membraneous subsance. MAGATTI, Carsar, was born in 1579, in the dutchy of Reggio. He distinguished himself by his early proficiency in philosophy and medicine at Bologna, whese he graduated in his 18th year; and afterward went to Rome. Returning at last to his native country, he from acquired so much reputation in his profession, Soon acquired so much reputation in his profession, that he was invited, as professor of surgery, to Ferrara; and after greatly distinguishing himself in that capacity, he was induced, during a severe illness, to enter into the fraternity of Capuchins. He still continued,

however, to practise, and acquired the confidence of persons of the first rank, especially the duke of Modena. But suffering severely from the stone, he underwent an operation at Bologia in 1647, which he did not long survive. He was author of a considerable improvement in the art of surgery, by his work entitled, "De rara Medicatione Vulnerum," condemning the use of tents, and recommending a simple, casy method of dressing, without the intation of frequently cleansing and rubbing the tender granulations: and in an appendix he refutes the notion of gun-shot wounds being envenomed, or attended with cauterization. He afterward published a defence of this work against some objections of Sennertus.

Μασια'LEON. (From μασσω, to knead.) A mass of plaster, or other composition, reduced to a cylindrical form.

MAGELLA'NICUS CORTEX. See Wintera arematica. MAGELLA'NICUS CORTEN. See Wintera aromatica. MA'GISTERY. (Magisterium; from magister, a master.) An obsolete teim used by ancient chemista to signify a peculiar and secret method of preparing any medicine, as it were, by a masterly process. The term was also long applied to all precipitates. MAGISTRA'LIA. (From magister, a master.) Applied, by way of eminence, to such medicines as are extemporaneous, or in common use.

MAGISTRA'NIA. (From magistro, to rule: so called,

by way of eminence, as exceeding all others in virtue.) See Imperatoria.

MA'GMA. (From μασσω, to blend together.) Ecpiesma. 1. A thick ointment.

2. The faces of an ointment after the thinner parts are strained off.

3. A confection.

MA'GNES. (From Magnes, its inventor.) The magnet, or loadstone. A middy iron ore, in which the iron is modified in such a manner as to afford a passage to a fluid called the magnetic fluid. The magnet exhibits certain phenomena; it is known by its property of attracting steel filings, and is found in Au vergne, in Biscay, in Spain, in Sweden, and Siberia. Magnet are sent and assented that it is a composition of equal parts of antimony, eulphur, and arsenic, mixed and melted together, so as jo become a rlassy hole. -A confection.

glassy body,

MAGNES EPILEPSIÆ. An old and obsolete name of native cinnabar.

MAGNE'SIA 1. The ancient chemists gave this name to such substances as they conceived to have the power of attracting any principle from the air. Thus power of attracting any principle from the air. Thus an earth which, on being exposed to the air, increased in weight, and yielded vitriol, they called magnesia vitriolata: and later chemists, observing in their process for obtaining magnesia, that nitrous acid was separated, and an earth left belind, supposing it had attracted the acid, called it magnesia nitri, which, from its colour, soon obtained the name of magnesia

alba.
2. The name of one of the primitive earths, having a metallic basis, called magnesium. It has been found

native in the state of hydrate.

Magnesia may be obtained by pouring into a solution of its sulphate a solution of subcarbonate of soda, tion of its sulphate a solution of subcarbonate of soda, washing the precipitate, drying it, and exposing it to a red heat. It is usually procured in commerce, by acting on magnesian limestone with the impure muriate of magnesia, or bittern of the sea-salt manufactories. The muriatic acid goes to the lime, forming a soluble salt, and leaves behind the magnesia of both the bitsalt, and leaves behind the magnesia of both the op-tern and limestone. Or the bittern is decomposed by a crude subcarbonate of ammonia, obtained from the distillation of bones in iron cylinders. Muriate of am-monia and subcarbonate of magnesia result. The former is evaporated to dryness, mixed with chalk, and sublimed. Subcarbonate of ammonia is thus recovered, with which a new quantity of bittern may be decomposed; and thus, in ceaseless repetition, forming an elegant and economical process. 100 parts of crystallized Epsom salt, require for complete decomposition 56 of subcarbonate of potassa, or 44 dry subcarbonate of soda, and yield 16 of pure magnesia after cal-Clastion.

Magnesia is a white, soft powder. Its sp. gr. is 2.3 by Kirwan. It renders the syrup of violets, and infusion of red cabbage, green, and reddens turmeric. It is infusible, except by the hydroxygen blow-jape. It has been also small. scarcely any taste, and no smell. It is nearly insoluble

In water; but it absorbs a quantity of that liquid with ! the production of heat. And when it is thrown down from the sulphate by a caustic alkali, it is combined with water constituting a hydrate, which, however, separates at a red heat. It contains about one fourth its weight of water.

When magnesia is exposed to the air, it very slowly attracts carbonic acid. It combines with sulphur, form-

ing a sulphuret.

The metallic basis, or magnesium, may be obtained in the state of amalgam with mercury by electri-

When magnesia is strongly heated in contact with 2 volumes of chlorine, this gas is absorbed, and 1 vo-lume of oxygen is disengaged. Hence it is evident that there exists a combination of magnesium and chlorine, or a true chloride. The salt called muriate of magnesia, is a compound of the chloride and water. it is acted on by a strong heat, by far the greatest part of the chlorine unites to the hydrogen of the water, and rises in the form of muriatic acid gas; while the oxygen of the decomposed water combines with the

magnesium to form magnesia.

Magnesia is often associated with lime in minerals, and their perfect separation becomes an interesting

problem in analysis.

Properties. Pure magnesia does not form with water an adhesive ductile mass. It is in the form of water an addressive ductile mass. It is in the form of a very white spongy powder, soft to the touch, and perfectly tasteless. It is very slightly soluble in vater, it absorbs carbonic acid gradually from the atmosphere. It changes very delicate blue vegetable colours to green. Its attraction to the acids is weaker than those of the alkalies. Its salts are partially decomposed by ammo-nia, one part of the magnesia being precipitated, and ma, one part of the magnessa temp precipitated, and the other forming a triple compound. Its specific gravity is about 2.3. It is infusible even by the most intense heat; but when mixed with some of the other earths it becomes fusible. It combines with sulphur. It does not unite to phosphorus or carbon. dissolved by alkalies in the humid way. When heated strongly, it becomes phosphorescent. With the dense acids it becomes ignited. With all the acids it forms salts of a bitter taste, mostly very soluble.

The magnesia of the present London Pharmacopæia

was formerly called Magnesia calcinata; usta; pura.

It is directed to be made thus:—Take of carbonate of magnesia, four ounces; burn it in a very strong fire, for two hours, or until acctic acid being dropped in, extricates no bubbles of gas. It is given as an absorbent, antacid, and eccoprotic, in cardialgia, spasms, convulsions, and tormina of the bowels of infants; pyroobstipation, leucorrhœa, rickets, scrofula, crusta lactea, and podagra. The dose is from half a drachm to a

drachim.

Magnesia Calcinata. See Magnesia.

Magnesia, Hydrate of. A mineral found in New Jersey, consisting of magnesia and water.

("The structure of this new and interesting mineral is very distinctly foliated; and the foliæ frequently radiate from a centre. Their lustre is more or less shining and pearly; and they are somewhat elastic.

The laminæ when separate are transparent; in the mass only semi-transparent; and by exposure to the weather, their surface becomes dull and opaque.

It is soft, and may be scratched by the finger nail, like tale. It slightly adheres to the tongue; and its sp. gr. is 2.13. Its colour is white, often tinged with green; its powder is a pure white.

green; its powder is a pure white.

It becomes opaque and friable before the blow-pipe, and its weight is diminished. In diluted sulphuric acid, it nearly dissolves without effervescence, and yields a limpid solution extremely bitter to the taste. According to Prof. Bruce, to whom we are indebted for a knowledge of this mineral, it is composed of pure magnesia 70, water 30.

It is sufficiently distinguished from talc by its solu-

bility in acids.

Illis found at Hoboken, New-Jersey, in veins, a few lines to two inches in thickness; they traverse serpentine in various directions, and, near the sides of the veins, the serpentine is sometimes intermixed with the folix of the magnesia."—Clear. Min.

Specimens of this hydrate, or native magnesia, have also been found in the veins of the serpentine at Hoboken, and on Staten Island, in a pulverulent form, and

when collected has the appearance of the magnesia alba of the shops, a specimen of which is in my possession. 'A.]

MAGNESIA USTA. See Magnesia.

MAGNESIA USTA. See Magnesia: Magnesia sulphas. Magnesia vitriola Tat. See Magnesia sulphas. Magnesia aba. Subcarbonate of Magnesia. The London College direct it to be made as follows:—Take of sulphate of magnesia, a pound; subcarbonate of potassa, anne ounces; water, three gallons. Dissolve the subcarbonate of potassa in three pints of the water, and strain; dissolve also the sulphate of magnesia separately in five pints of the water, and strain; then add the rest of the water to this latter solution, apply heat, and when it boils, pour in the former solution, stirring them when it ooks pout in the former solution, serring them well together; next, strain through a finer cloth; lastly, wash the powder repeatedly with boiling water, and dry it upon bibulous paper, in a heat of 200°. It is in form of very fine powder, considerably resembling flour in its appearance and feel; it has no sensible taste on the tongue; it gives a faint greenish colour to the tincture of violets, and converts turnsole to a blue. It is employed medicinally as an absorbent, antacid, and purgative, in doses from half a drachm to two drachms

Magnesiæ sulphas. Sulphas magnesiæ; Sulphas magnesiæ pursseata; Magnesia vitriolata; Sal catharticus amarus. Sal catharticus amarus. Sulphate of magnesia. Epsom sait. Bitter purging salt. The sulphate of magnesia exists in several mineral

springs, and in sea-water.

It is from these saline solutions that the salt is obtained; the method generally adopted for obtaining it tained; the method generally adopted nor obtaining is evaporation, which causes the salt to crystallize in tetrahedral prisms. It has a very bitter taste, and is soluble in its own weight of water at 60°, and in three-fourths of its weight of boiling water. Sulphate of magnesia, when perfectly pure, effloresces; but that of commerce generally contains foreign salts, such as the muriate of magnesia, which renders it so deliquescent, that it must be kept in a close vessel or bladder. By the action of heat it undergoes the watery fusion, and loses its water of crystallization, but does not part with its acid. One hundred parts of crystallizations of acid, to earth, and 53.65 of water. The alkalies, strontian, harytes, and all the salts formed by these salifiable bases, excepting the alkaline muriates, decompose sulphate of magnesia. It is also decomposed by the nitrate, carbonate, and muriate of lime.

Epsom salt is a mild and gentle purgative, operating with sufficient efficacy, and in general with ease and safety, rarely occasioning any gripes, or the other in conveniences of resinous purgatives. Six or eight drachms may be dissolved in a proper quantity of common water; or four, five, or more in a pint or quart of the purging mineral waters. These solutions may likewise be so managed, in small doses, as to produce evacuation from the other emunctories; if the patient be kept warm, they increase perspiration, and by moderate exercise in the cool air, the urinary discharge. Some allege that this salt has a peculiar effect in allaying pain, as in colic, even independently of

evacuation.

It is, however, principally used for the preparation of the subcarbonate of magnesia.

[Magnesian Limestone. This is a magnesian car-[Magnesian Limestone. This is a magnesian carbonate of lime, of which there are two varieties; common magnesian limestone, or bitter-spar, and dolomite; both of which have been found in abundance in Pennsylvania, New-York, and Connecticut. Some of the quarries supplying this limestone may hereafter become important in the manufacture of Epsom salts,

or sulphate of magnesia. A.]
MAGNESITE. A yellowish gray or white mineral, composed of magnesia, carbonic acid, alumina, a ferruginous manganese, lime, and water, found in serpentine, rocks, in Moravia.

MAGNESIUM. The metallic basis of magnesia.

MAGNETISM. The metanic dasis of magnesia.
MAGNET. See Magnes.
MAGNETISM. The property which iron possesses
of attracting or repelling other iron, according to circumstances, that is, similar poles of magnets repel, but

opposite poles attract each other,

MAGNETISM, ANIMAL. A sympathy lately supposed, by some persons, to exist between the magnet and the

human body; by means of which, the former became ! capable of curing many diseases in an unknown way, somewhat resembling the performances of the old magicians. Animal magnetism is now entirely exploded.

MAGNUM OS. The third bone of the lower row of

bones of the carpus, reckoning from the thumb towards

bothes to the same and the little finger.

MAGNUS. The term is applied to parts from their relative size; and to diseases and remedies from their relative size; and to importance; as magnum os, magnus morbus, magnum dei donum, &c.

MAGNUM DEI DONUM. So Dr. Mead calls the Peru-

vian bark.

MAGNUS MORBUS. The great disease. So Hippocrates calls the epilepsy.

MAGY DARIS. The root of the laserwort.

Magy daris. The root of the las Mahagoni. See Swietenia.
Mahabeb. A species of Prunus.
Mahmot'dy. Scammonium.

MAHMOT BY. Scammonium.

MAIDENHAIR. See Advanthum.

Maidenhair, Canada. See Advanthum pedatum.

Maidenhair, common. See Aspleusum trichomancs.

Maidenhair, English. See Jdvanthum.

Maidenhair, golden. See Polytrichum.

Maidenhair TREE. Ginan usio. The Ginko biloba. In China and Japan, where this tree grows, the fruit acquires the size of a damask plumb, and contains a kernel resembling that of our apricot. These kernels always make part of the desert at all public leasts and entertainments. They are said to promote digestion, and to cleanse the stomach and bowels. The oil is used at the table.

used at the table.

Majanthemum. See Convallaria majulis.

Majorana. (Quod mense Maio floreat, because it flowers in May.) See Origanum majorana.

Majorana syriaca. See Tenerium marum.

Ma'LA. (From malus, an apple: so called from its roundness.) A prominent part of the cheek. See Jugale of Jugale 08.

MALA ETHIOPICA. A species of love-apple. See

MALLA ETHIOPICA. A species of love-apple. See Solanum lycopersicum.

MALA ASSYNIA. The citron.

MALA ASSYNIA. The quince.

MALA OTTONEA. The quince.

MALA INSANA NIGRA. See Solanum melongena.

MALA INSANA NIGRA. See Solanum melongena.

MALA INSANA NIGRA. See Solanum melongena.

MALABATHERI OLEUM. Oli of Cassia.

MALABATHERI OLEUM. (From μαλαβαθρον, malabathrum.) Ointment of malabathrum. It is compounded of myrth, spikenard, malabathrum, and many other aromatic ingredients.

aromatic ingredients. Malaba Terrum. (Μαλαβαθρον: from Malabar, in India, whence it was brought, and betre, a leaf, Ind.)

See Laurus cassia.

Ma'laca Radix. See Sagittaria alexipharmaca.

Ma'laca bean. See Avicennia tomentosu.

Ma'lacak. (Malacke, es. f.; from µakacos, soft: so called from the softness of its leaf.) The mallow. See

MALACHITE. (From μαλαχη, the mallow: from its resemblance in colour to the mallow.) Mountain blue, a carbonate of copper ore found in Siberia.

MALACHOLITE. See Sahlite.

MALACHOLITE. See Salute.

MALACIA. (From μαλαχιση, a ravenous fish.) Depraved appetite, when such things are coveted as are not proper for food. See Pica.

MALACO'S'TEON. (From μαλακος, soft, and οςτον, a bone.) A softness of the bones. Mallities ossium. A disease of the bones, wherein they can be bent with out fracturing them, in consequence either of the inor-dinate absorption of the phosphate of lime, from which their natural solidity is derived, or else of this matter not being duly secreted and deposited in their fabric. In rickets, the bones only yield and become distorted by slow degrees; but in the present disease they may be at once bent in any direction. The mollities ossium is rare, and its causes not well understood. All the cases of mollities ossium yet on record have proved fatal, and no means of cure are yet known. On dissection of those who have died, all the bones, except the teeth, have been found unusually soft, so that scarcely any of them could resist the knife, the periosteum has been found thicker than usual, and the bones have been found to contain a great quantity of oily matter and little earth. not being duly secreted and deposited in their fabric. and little earth.

MALA CTICA. (From μαλασσω, to soften.) Emol-

lient medicines.

MALAGETTA. Grains of paradise.

MALAGETTA. Grains of paradise.

MALAGMA. (From μαλασσω, to soften.) A poul

MALA GRAA. (From paradoos) to sortem? A pour tice.

MALAMERS. A species of Piper.

MALA RIA. The name in Italy of an endemic intermittent, which attacks people in the neighbourhood of Rome, and especially about the Pontine marshes, which have often been dramed to carry off the decomposing animal and vegetable materials that spread their control of the decomposing animal and vegetable materials that spread their dria cattiva, as it is called, over the whole of the cam-

pagna.
[The Malaria of Rome is an infected atmosphere arising from marsh-measmata, producing an endemic disease. We have, in the United States, many similar instances of malaria producing also local and endemic diseases. The Pontine marshes in the neighbourhood of Rome are very extensive, and infect the atmosphere over a large tract of country. Lancisi has ably described the condition and effects of the marsh-miasma of Rome, in his work De naxis paludum effuviis. The Malaria returns annually during the height of the warm season, and is destroyed with the approach of winter, producing in this country what we call a sea-sonable disease. The term marsh-miasma, has become rather unfashionable, as perhaps its meaning is too indefinite, but it is not more so than Malaria. In fact, they both mean the same thing, or the same state of the atmosphere, both producing seasonable, and local or endemic diseases. One is an Italian word, meaning bad air, or a sickening state of the atmosphere. Miasma is a Greek word, from μιαινω, to infect, importing a polluted, corrupted, or infected state of the atmosphere.

ma is deflect.

main a polluted, corrupted, or infected state of the atmosphere. A.]

Malarum ossa. See Jugale os.

MA'LATE. Malas. A salt formed by the union of the malic acid, or acid of apples with salifiable bases; thus malate of copper, malate of tead, &c.

Ma'le. The arm-pit.

Male form. See Polypodium filix mas.

Mule orchis. See Vorkis mascula.

Male speedowell. See Veronica officinalis.

MALIC ACID. Acidum malicum. This acid is obtained by saturating the juice of apples with alkali, and pouring in the acetous solution of lead, until it occasions no more precipitate. The precipitate is then to be edulcorated and sulphuric acid poured on it, until the liquor has acquired a fresh acid taste, without any mixture of sweetness. The whole is then to be filtered, to separate the sulphate of lead. The filtered liquor is the malic acid, which is very pureremains always in a fluid state, and cannot be rendered concrete. See Sorbic acid. concrete. See Sorbic acid.

MALIASMUS. (From ualis, cutaneous vermina-

tion.) Breeding animalcules on the skin, as the louse, flea, tick, &c.
MALI'GNANT. (Malignus; from malus.) A

MALIGNANT. (Malignus; from malus.) A term which may be applied to any disease, the symptoms of which are so aggravated as to threaten the destruction of the patient. It is frequently used to signify a density.

destruction of the patient. It is frequently used to sig-nify a dangerous epidemic.

Mulignant fever. See Typhus.

Malignant sore throat. See Cynanche maligna.

MA LIS. (Makis, and µakaaquos, are Greek nouns composing cutaneous vermination.) The name of a genus of diseases in Good's Nosology. Class. Eccritica, Order, Acrotica. Cutaneous vermination. It has six species, vix. Malis pediculi; pulicis; acari; filaria,

astri; gorda.

MALLEABILITY. (Malleabilitas; from malleus, a hammer.) The property which several metals possess of being extended under the hammer into thin plates, without cracking. The thin leaves of silver and gold are the best examples of malleability. See

Ductility.

MALLEAMOTHE. Pavette: Pavete: Erysipelas curans arbor. A shrub which grows in Malabar. The leaves, boiled in palm oil, cure the impetigo; the root, powdered and mixed with ginger, is diuretic.

MALLEATIO. A species of St. Vitus's dance, in which the person has a convulsive action of one or both hands, which strike the knee like a hammer.

MALLEI ANTERIOR. See Laxator tympani.

MALLEI HYTERNUS. See Ecor tympani.

MALLEI HYTERNUS. See Tensor tympani.

MALLEI CLUS. (Dum. of malleus, a mallet: so called from its supposed resemblance to a mallet.)

The ankle, distinguished into external and internal, or

malleolus externus and internus.

MA'LLEUS. (Malleus quasi molleus; from mollio, to soften; a hammer.) A hone of the internal ear is of termed from its resemblance. It is distinguished into a head, neck, and manubrium. The head is round, and incrusted with a thin cartilage, and anround, and incrusted with a thin cartilage, and annexed to another bone of the ear, the incus, by ginglymus. Its neck is narrow, and situated between the head and manubrium, or handle; from which a long slender process arises, adheres to a furrow in the auditory canal, and is continued as far as the fissure in the articular cavity of the temporal bone. The manubrium is terminated by an enlarged extremity, and connected to the membrana tympani by a short conoid process.

MALLOW. See Malva

MAILOW. See Mater. Mallow, round-leaved. See Malva rotundifolia. Mallow, vervain. See Malva alcea. Malooraxa tum. (From malum, an apple, and ranum, a grain: so named from its grain-like seeds.)

The pomegranate

MALPIGHI, MARCELLO, was born near Bologna, in 1628. He went through his preliminary studie with great eclat, and especially distinguished himself with great colat, and especially distinguished himself by his zealous pursuit of anatomy. His meeti pro-cured him, in 1653, the degree of doctor in medicine, and, three years after, the appointment of professor of physic, at Bologna; but he was soon invited to Pisa, by the Grand Duke of Tuscany. However, the air of this place injuring his health, which was naturally de-licate, he was obliged, in 1652, to return to his office at Bologna. Three years after, he was tempted by the magistrates of Messina to accept the medical profes-sorship there. Jut. his little deference to swight an sorship there; but his little deference to ancient au-thorities involved him in controversies with his colleagues, which forced him to return again to Bologna, in 1666. His reputation rapidly extended throughout Europe, as a philosophical inquirer, and he was chosen a member of the Royal Society of London, chosen a member of the Royal Society of London, which afterward printed his works at their own expense. In 1691, Pope Innocent XII., on his election, chose Malpighi for his chief physician and chamberlain, when he removed to Rome; but, three years after, he was carried off by an apoplectic stroke. He joined, with an indefatigable pursuit of knowledge, a remarkable degree of candour and modesty; and ranks very high among the philosophers of the physiological age in which he lived. He was the first to employ the microscope in examining the circulation of the blood; and the same instrument assisted him in exploring the minute structure of various organs, as is evident from his first publication on the lungs, in 1661; and this was followed by successive treatises on many other parts. In 1669, his essay, "De Formatione Pulli in Ovo," was printed at London, with his remarks on the silkworm, and on the conglobate glands: much light was thrown by these investigations on the obscure subject of generation, and other important points of physio-logy. He was thence led to the consideration of the logy. The was there led to the consideration of mestructure and functions of plants, and evinced himself an original, as well as a very profound observer. His "Anatome Plantarum" was published by the Royal Society, in 1675 and 1679, with some observations on the incubation of the egg. His only medical work, "Consultatiorum Medicinalium Centuria Prima," did not appear till 1713: he was not distinguished as a practitioner, but deserves praise for pointing out the mischief of bleeding, in the malignant epidemics which prevailed in Italy in his time.

MALPI'GHIA. (So named in honour of Malpighi,

MALPIGHIA. (So named in honour of Mapigni, the celebrated vegetable anatomist.) The name of a genus of plants in the Linnman system. Class, Decandria; Order, Trigyania.

MALPIGHIA GLARA. The systematic name of a tree which affords an esculent cherry.

.MALT. Grain which has become sweet, from the conversion of its starch into sugar, by an incipient growth or germination, artificially induced, called maltine. malting.

Maltha. (From μαλασσω, to soften.) Maltha-codes. 1. A medicine softened and tempered with wag. 2. The name of the mineral tailow of Kirwan, which resembles wax, and is said to have been found on the coast of Finland.

MALTHA'CTICA. (From μαλθακιζω, to soften.) Emol-

lient medicines.

MALTHEORUM. Common salt. MA'LUM. 1. A disease.

An apple.

MALUM MORTUCM. A disease that appears in the form of a pustule, which soon forms a dry, brown, hard, and broad coust. It is seldom attended with pain, and remains fixed for a long time before it can be detached. It is mostly observed on the tibia and os coccygis, and sometimes the face,

MALUS PILARE. See Phea.
MAUNT PILARE. See Phea.
MAUUS Hone Phea.
MAUUS HOLEAD Phys malus.
MALUS HOLEAD Phys malus.
The Malus indica—fructu pentagono, of Europeans.
It is carefully cultivated in the gardens of the East Indics, where it flowers throughout the year. The juice of the root is cooling, and drank as a cure for fevers. The leaves, boiled and made into a cataplasm with The reaves, borned and made into a catapiasm with rice, are famed in all sorts of tumours, and the jude of the fruit is used in almost all external heats, dipping linen rags in it, and applying them to the parts. It is drank, mixed with arrack, to cure diarrheas; and the dried leaves, mixed with betel leaves, and given in arrack, are said to promote delivery. The ripe fruit is caten as a delicacy, and the unripe made into a pickle the use of the table.

MA'LVA. (Malva quasi molva; from mollis, soft: named from the softness of its leaves.) 1. The name of a genus of plants in the Linnwan system. Class, Monadelphia; Order, Polyandria.

2. The pharmacopæial name of the common mal-

MALVA ALCEA. Matra verbenaca. The vervain maillow. In spiant is using jagged, or cut in about the edges. It agrees in virtues with the other mallows, but it is the least mucliaginous of any. This, like to the other mallows, abounds with a mucilage, and is good for pectoral drinks.

MALVA ARBOREA. See . Alcca rosea.

MALVA ROTUNDIFOLIA. Round-leaved mallow. The

MALVA ROTUNDIFOLIA. Round-leaved mallow. The whole herh and root possess similar virtues to the common mallow. See Malva sylvestris.

MALVA SYLVESTRIS. The systematic name of the common mallow. Malva vulgaris; Malva—caule erecto herbaceo, foliis septembolatis acutis, pedunculis petiolisque pilosis. This indigenous plant has a strong affinity to the althea, both in a botanical and a medical respect. See Althea. The leaves and flowers are principally used in fomentations, cataplasms, and emollient enemas. The internal use of the heaves seems to he wholly superseded by the radix the leaves seems to be wholly superseded by the radix

MALVA VERBENACA. See Malva alcea.

MALVA VULGARIS. See Malva sylvéstris.

MALVAVI'SOUS. (From malva, the mallow, and riscus, glue: so named from its viscidity.) See Althae officinalis.

MALVERN. The village of Great Malvern has, for many years, been celebrated for a spring of re-markable purity, which has acquired the name of the holy well, from the reputed sanctity of its waters, and the real and extensive benefit long derived in various cases from its use.

Cases from its use.

The holy well water, when first drawn, appears quite clear and pellucid, and does not become sensibly turbid on standing. It possesses somewhat of an agreeable pungency to the taste; but this is not considerable. In other respects it does not differ in taste

from pure good water

The contents of Malvern holy well are:—some carbonic acid, which is in an uncombined state, capable of acting upon iron, and of giving a little taste to the water; but the exact quantity of which has not been ascertained:—a very small portion of earth, either lime or magnesia, united with the carbonic and marine acids; perhaps a little neutral alkaline salt, and a very large proportion of water:—for we may add, that, the carbonic acid perhaps excepted, the foreign matter is less than that of any spring-water which we use. No iron or metal of any kind is found in it, though there are chalybeates in the neighbourhood.

It is singular that, notwithstanding its apparent The contents of Malvern holy well are:-some car-

It is singular that, notwithstanding its apparent purity, this water is said not to keep well, and soon

purity, this water is said not to the company and acquires a feetid smell, by standing in open vessels. Malvern water, like many others, was at first only employed as an external application; and this, indeed is still its principal use, though it is extended, with

some advantage, to a few internal diseases. It has been found highly efficacious in painful and deep uterations, the consequence of a secretious habit of body, and which are always attended with much local irritation, and often general iever. Applied to the 200c, it moderates the profuseness of the discharge, corrects the following the secretion of the discharge, corrects the profuseness of the discharge, corrects. the fector, which so peculiarly marks a caries of the the fetor, which so peculiarly marks a caries of the bone, promotes the granulating process, and a salutary exfoliation of the carious part; and by a long perse-verance in this course, very dangerous and obstinate verance in this course, very dangerous and obstinate cases have at least been cured. Inflammation of the eye, especially the ophthalmia, which is so trouble some in scrofulous habits, often yields to this simple application, and we find, that, for a great number of years, persons afflicted with sore eyes have been in the habit of resorting to Malvern holy well. Another order of external diseases, for which this water is greatly celebrated, is cutaneous eruptions; even those obstinate cases of dry desquamations, that frequently follow a sudden application of cold in irritable habits, are often cured by this remedy. Where the skin is hot and dry, it remarkably relieves the intolerable itching of herpetic disorders, and renders the surface of the and dry, it remarkably relieves the intolerable uching of herpetic disorders, and renders the surface of the body more cool and perspirable. It appears, however, from a nice observation of Dr. Wall, that this method of treatment is not so successful in the cutaneous eruptions of very lax leucophlegmatic habits, where the extremities are cold and the circulation languid; but that it succeeds best where there is unusual irriation of the skin, and where it is apt to break in painful fissures, that ooze out a watery acrid lymph. On the first application of this water to an inflamed surface, it will often, for a time, increase the pain and irritation, but these effects go off in a few days.

The great benefit arising from using Malvern waters The great benefit arising from using Malvern waters as an external remedy, in diseases of the skin and surface of the body, has led to its employment in some internal disorders, and often with considerable advantage. Of these, the most important are painful affections of the kidneys and bladder, attended with the discharge of bloody, purulent, or feetid urine, the hectic fever, produced by scrofulous ulceration of the lungs, or very extensive and irritating sores on the surface of the body, and also fistulas of long standing, that have been neglected, and have become constant and trouble-

some sores.

The Malvern water is in general a perfectly safe application, and may be used with the utmost freedom, both as an external dressing for sores, and as a common

drink.

The internal use of Malvern waters is sometimes attended at first with a slight nausea, and not unfrequently, for the first day or two, it occasions some degree of drowsiness, verugo, or slight pain of the head, which comes on a few minutes after drinking it. These which comes on a few minutes after drinking it. These symptoms go off spontaneously, after a few days, or may readily be removed by a mild purgative. The effects of this water on the bowels are not at all constant; frequently it purges briskly for a few days, but it is not uncommon for the body to be rendered costive by its use, especially, as Dr. Wall observes, with those who are accustomed to malt liquors. In all cases, it decidedly increases the flow of urine, and the general health of the patient. The duration of a correct. health of the patient. The duration of a course of Malvern waters must vary very considerably on account of the different kinds of disease for which this

spring is resorted to.

Many's. The mammoe, momin, or toddy-tree.

This tree is found in different parts of the West Indies, This tree is found in different parts of the West Indies, but those on the Island of Hispaniola are the best. From incisions made in the branches, a copious discharge of pellucid liquor is obtained, which is called momin, or toddy-wine. It must be drank very sparingly, because of its very diuretic quality. It is esteemed as an effectual preservative from the stone, as also a solvent of it when generated. There are two species.

MAMILIA. (Diminutive, of magning, the breaset's

vent of it when generated. There are two species.

MAMITLA. (Diminutive of mamma, the breast.)

The breast of man.

The mipple of the male and female breasts.

MAMITAA. It is said, by Paulus Ægineta, to be the root of a plant which is of a detergent quality. Some think it is the root of the doronicum; but what it really is cannot be ascertained.

MAMMARY See Breast.

MAMMARY ARTERY. Arteria mannillaris. The internal mammary artery is a branch of the subclavian,

internal mammary artery is a branch of the subclavian,

acconpany the arteries, and evacuate their blood into the subclavian vein.

the subclavian vein.

MAMMEA. (So called from its vernacular appellation in the West Indies, mamei, and allowed by Limmuns, because of its affinity to mamma, a breast, alluding to the shape of its fruit.) The name of a genus of plants. Class, Polyandria; Order Monogynia.

MAMMEA AMERICANA. The systematic name of a tree, which affords a delicious fruit called mammea. It has a yetry grateful Bayonia Whom rine, and is much.

tree, which affords a delicious fruit called mammea. It has a very grateful flavour when ripe, and is much cultivated in Jamaica, where it is generally sold in the markets for one of the best fruits of the island.

MAN. Homo. Man is compounded of solids, fluids, a vital principle, and, what distinguishes him from every other animal, a soul. See Jinemal.

MA'NOORON. According to Oribasius, a kind of sugar found in a sort of cane.

MANCIFA'NA. See Origanum vulgare.

MANDIBULA. (From mando, to chew.) The isaw. See Maxilla inferior.

MANDIBULA. (From mando, to chew.) The jaw. See Maxilla inferior.

MANDRA'GORA. (From ηανδρα, a den, and αγειρω, to collect; because it grows about caves and dens of beasts; or from the German man dragen, bearing man.) See Atropa mandragora.

MANDRAGORI'TES. (From μανδραγορα, the mandrake.) Wine, in which the roots of the male mandrake are infused.

MANDRAGE. See Atropa mandragora

MANDRAKE. See Atropa mandragora.
MANDUCA'TOR. (From manduco, to chew.) A

MANDUCA TOR. (From manduco, to chew.) A muscle which assists in the action of chewing.

Ma'NGA. (Indian.) The mango-tree.

MANGANESE. This metallic substance seems, after iron, to be the most frequently diffused metal through the earth; its ores are very common. As a pseuliar metal, it was first noticed by Gahn and Scheele, in the years 1774 and 1777. It is always found in the state of an oxide, warying in the degree of oxidisement. La Peyrouse affirmed that he had found manganese in a metallic state; but there was probably some mistake in his observation. The ores are distinguished into in his observation. The ores are distinguished into gray oxide of manganese, black oxide of manganese, reddish white oxide of manganese, and carbonate of manganese. All these combinations have an earthy texture; they are very ponderous; they occur both amorphous and crystallized; and generally contain a large quantity of iron. Their colour is black, blackishbrown, or gray, seldom white. They soil the fingers like soot. They are sometimes crystallized in prisms, texahedral prombinated. tetrahedral, rhomboidal, or striated

Properties .- Manganese is of a whitish gray colour. Its fracture is granulated, irregular, and uneven. It is of a metallic brilliancy, which it, however, soon loses in the air. Its specific gravity is about 8. It is very hard, and extremely brittle. It is one of the most refractory metals, and most difficult to fuse, requiring at least tory metals, and most difficult to fuse, requiring at least 160 of Wedgwood's pyrometer. Its attraction of oxygen is so rapid, that exposure to the air is sufficient to render it red, brown, black, and friable, in a very short time; it can, therefore, only be kept under water, oil, or ardent spirits. It is the most combustible of all the metals. It decomposes water by means of heat, very rapidly, as well as the greater part of the metallic oxides. It decomposes sulphuric acid. It is soluble in nitric acid. It is fusible with earths, and colours them brown, violet, or red, according to its state of oxidises. brown, violet, or red, according to its state of oxidisement. It frees from colour glasses tinged by iron. It does not readily unite with sulphur. It combines with phosphorus. It unites with gold, silver, and copper, and renders them brittle. It unites to arsenic in close vessels, but does not enter into union with mer-

Manganese, heated in oxygen or chlorine, takes fire

Manganese, heated in oxygen or chlorine, takes fire and forms an oxide or chloride. It has been thought difficult to decide on the oxides of manganese.

According to Sir H. Davy there are two oxides only, the olive and the black; Mr. Brande has three, the plive, dark red, and black; Thenard has four, the green, the white (in the state of hydrate), the cheanutbrown, and the black; Berzelius has five, the first gray the second green, the third and fourth are not well defined and the fifth is the black. fined, and the fifth is the black.

Two oxides, however, are well defined.

1. The first oxide may be obtained by dissolving com

mon black manganese in sulphuric or nitric acid, adding a little sugar, and precipitating by solution of potassa. A white powder is obtained, which being heated be reduced to an excellent flour for the making of break. to redness out of the contact of air, becomes yellow, puce-coloured, and, lastly, red-brown. To be pre-served, it should be washed in boiling water, previously freed from air, and then dried by distilling off the moist-ure in a retort filled with hydrogen. The dark olive oxide, when examined in large quantities, appears almost black; but when spread upon white paper, its olive tint is apparent. It takes fire when gently heated, increases in weight, and acquires a browner tint. slowly absorbs oxygen from the air, even at common temperatures. It dissolves in acids without effervescence. The white powder obtained above, is the hydrated protoxide. The different tints which it assumes by exposure to air, are supposed by Sir H. Davy to depend on the formation of variable quantities of the black-brown oxide, which probably retains the water contained in the white hydrate, and is hence deep puce-coloured.

2. The black peroxide. Its sp. gr. is 4. It does not combine with any of the acids. It yields oxygen when heated; and by intense ignition passes in a great mea-

sure into the protoxide.

Method of obtaining Manganese.—This metal is obtained by mixing the black oxide, finely powdered, with pitch; making it into a ball, and putting this into a crucible, with powdered charcoal, one-tenth of an inch thick at the sides, and one-fourth of an inch deep at the bottom. The empty space is then to be filled with powdered charcoal; a cover is to be luted on; and the powdered charcoal; a cover is to be luted on; and the crucible exposed, for an hour, to the strongest heat that can be raised. Or, digest the black oxide of manganese repeatedly, with the addition of one-sixteenth of sugar, in nitric acid; dilute the mixture with three times its bulk of water; filter it, and decompose it by the addition of potassa; collect the precipitate, form it into a paste with oil, and put it into a crucible, well lined with charcoal. Expose the crucible for at least two hours to the strongest heat of a forge.

MANGANESIC ACID (Acidum manganganing)

MANGANESIC ACID. (Actidum manganesium; from manganese, its base.) Chevillott and Edwards have ascertained that the carnelion mineral, which is formed by igniting a mixture of the black oxide of manganese and nitre, has the property of making a neutral manganesate of potassa.

Mangel wursel. The root of scarcity. The Beta

hybrida of Linnæus. A plant of great importance, as a substitute for bread in periods of famine. It is cultivated here as green food for cattle, especially milch cows. It has not, however, succeeded so well in this

cowes. It has not, however, succeeded so well in this country as in Germany.

MANGET, John James, was born at Geneva in 1652. He originally studied for the clerical profession, but, after five years' labour, his inclination to medical pursuits prevailed, and he made such progress, without the aid of any teacher, that he was admitted to the degree of doctor at Valence in 1678. He then commenced practice in his native city, and obtained considerable practice in his native city, and obtained considerable reputation, and refused many invitations to go to other countries. In 1699 he was appointed chief physician to Frederick III. afterward first King of Prussia. In his literary labours he was indefatigable even to the end of his life, which terminated in his 91st year. Among the numerous works of compilation, executed by him, originality is not to be expected; nor are they remarkable for judgment or accuracy, though still sometimes useful for reference. He published ample collections on altered every subject connected with mesometimes useful for reference. The published aniple collections on almost every subject connected with medicine, besides improved editions of the works of others; but the most important of his productions is entitled Bibliotheca Scriptorum Medicorum veterum

entitled "Bibliotheca Scriptorum Medicidum vectorise et recentiorum," at which he laboured when at least eighty years of age.

MANGIFERA. (From mango, the name of the fruit which it bears.) The name of agenus of plants in the Linnæan system. Class Pentandria; Order, Monogymia. The Mango-tree.

MANGIFERA INDICA. The systematic name of the

gynia. The Mango-tree.

Manoifera indica. The systematic name of the mango-tree, which is cultivated all over Asia. Mangoes, when ripe, are juicy, of a good flavour, and so fragrant as to perfume the air to a considerable discount.

They are nation either raw or preserved with Tance. They are eaten either raw or preserved with sugar. Their taste is so luscious, that they soon pall the appetite. The unripe fruits are pickled in the milk of the cocoa-nut, that has stood until sour, with sait,

be reduced to an excellent flour for the maxing of deau-MANGO. See Mangifren indica.
MANGUSTANA. See Garcinia mangostana.
MANGUSTANA. See Garcinia mangostana.
MANIA. (From paropar, to rage.) Raving or furious madness. A genusor disease in the class Nearoses; and order Vesariac, of Cullen. The definition of mania is delirium, unaccompanied with fever; but this does not seem allowether correct, as a delirium this does not seen altogether correct, as a delirium may prevail without any frequency of pulse or fever; as happens sometimes with women in the hysteric disease. In mama, the mind is not perfectly master of all far functions; it receives impressions from the senses, which are very different from those produced in health; the judgment and memory are both lost, or impaired, and the irritability of the body is much distinct the sense of the se minished, being capable, as is supposed, of resisting the usual mobil effects of cold, hunger, and watching, and being likewise less susceptible of other diseases than

Mania may be said to be a false perception of things, marked by an incoherence, or raving, and a resistance of the passions to the command of the will, accompanied, for the most part, with a violence of action, and furious resentment at restraint.

There are two species of madness, viz. the melan-

cholic and furious.

Maduses is occasioned by affections of the mind, such as anxiety, grief, love, religion, terror, or enthusiasm; the frequent and uncurbed indulgence in any passion, or emotions, and by abstrues study. In short, it may be produced by any thing that affects the mind so forcibly as to take off its attention from all other affairs. as to take on its attention from an other analis. Vio-lent exercise, frequent intoxication, a sedentary life, the suppression of periodical and occasional discharges and secretions, excessive evacuations, and paralytic seizures, are likewise enumerated as remote causes. Certain diseases of the febrile kind have been found to occasion madness, where their action has been very occasion magness, where their action has been very violent. In some cases it proceeds from an hereditary predisposition. Two constitutions are particularly the victims of madness; the sanguine and melancholic; by the difference of which its appearance is somewhat modified. Each species of mania is accompanied with particular symptoms. Those which attend on the moduled. Each species of manals accompanied with particular symptoms. Those which attend on the melancholic are sadness, dejection of spirits, and its attendants. Those which accompany an attack of furious madness, are severe pains in the head, redness of the face, noise in the ears, wildness of the counte-nance, rolling and glistening of the eyes, grinding of the teeth, loud roaring, violent exertion of strength, absurd incoherent discourse, unaccountable malice to certain persons, particularly to the nearest relatives and friends, a dislike to such places and scenes as formerly afforded particular pleasure, a diminution of the irrita-bility of the body, with respect to the morbid effects of cold, hunger, and watching, together with a full, quick

Mania comes on at different periods of life; but, in the greater number of cases, it makes its attack be-tween thirty and forty years of age. Females appear to be more subject to mania than males. Dissections of maniacal cases, Dr. Thomas observes,

most generally show an effusion of water into the cavities of the brain; but in some cases, we are able to cavities of the brain; but in some cases, we are able to discover evident marks of previous inflammation, such as thickening and opacity of the tunica arachonoides and pla mater. In a few instances, a preternatual hardness of the substance of the brain.

From Dr. Greding's observations, it appears that the skulls of the greater number of such persons are commonly very thick. Some he found of a most extraordinary degree of thickness; but it appears that the greater number of inspan people dig of atrophy and

greater number of insane people die of atrophy and

hydrothorax.

The treatment of madness is partly corporeal, partly mental. The leading indications under the first head are: to diminish vascular or nervous excitement when excessive, as in mania; to increase them when deective, as in melanchola; at the same time guarding against the several exciting causes, and removing any obvious fault in the constitution, or in particular parts, by which the brain may be sympathetically affected. Among the most powerful means of lessening excitement is the abstraction of blood, which, freely practised

has been often an effectual remedy in recent cases and possible the probability of the property of the probability of the proba Purging is much more extensively applicable: where the strength will admit, it may be useful to make very large evacuations in this way; and in all cases it should be a rule to procure regular discharges from the bowels, which are generally torpid. Calomel is mostly proper, as it may evacuate bile more freely, and have proper, as it may evacuate one more irrestly, and have other beneficial effects; but it usually requires the as-sistance of other cathortics. The application of cold to the head is materially serviceable under increased excitement, and some have advised it to the body gene-Taily; at any rate, the accumulation of heat should be avoided, and the antiphlogistic regimen steadily observed. Emetics have sometimes had a good effect. especially as influencing the mind of the patient; but to diminish excitement, and induce diaphoresis, it will to diminish excitement, and induce diaphoresis, it will generally be better to give merely nauscating dosses; and occasionally their operation may be promoted by the tepid bath; even the hot bath has been found useful, producing great relaxation, and rendering the patient more tractable. Digitalis may be employed with advantage from its sedative power, exerted especially on the circulation, pushing it till some obvious effect is produced. Narcotics, particularly opium, have been much used, but certainly are not indiscriminately proper; where there is fulness of the vessels of the head, they may even do mischief; and where organic disease exists, they will probably only palliate: whenever resorted to, the dose should be large, such as may induce sleep, and if no mitigation of the disease appear, it may be better not to persevere in them. Camphor has been sometimes decidedly useful carried gradually to a very considerable extent. Blisters and other means of lessening fulness and irritation in the brain, should not be neglected, where circumstances indicate their use.— In the melanchoic, on the other hand, where there is rather a deficiency of excitement, it is necessary to direct a more generous diet, nutritious and easy of digestion, as the stomach is usually weak, with a moderate quantity of some fermented liquor, and medimoderate quantity of some fermented liquor, and medicines of a tonic or even atimulant nature, especially ammonia, to relieve flatulence and acidity. Attention should be paid to the bowels, and to maintain the function of the skin, &c. The utility of the cold bath seems questionable in melancholics; though it may occasionally arrest a paroxysm of mania. Regular exercise may contribute maternally to-improve the health; and even hard labour has been often signally useful in a convalescent state, particularly to those accustomed to it. If the mental derangement supervened on the stoppage of any evacuation, or the metastasis of any other disorder; or appear connected with a scrofulous or syphilitic taint; proper remedies to restore the former, or remove the latter, should be exhibited: the former, or remove the latter, should be exhibited and in some instances trepanning has relieved the brain from local irritation. In the management of the insane, it is necessary to inspire a certain degree of awe from a conviction of superior power, and at the same time seek to gain their confidence and affection by steadiness and humanity. Some restraint is often necessary for the security of the patient, or of others, carefully watching, or even confining them, if they threaten the lives of their attendants. When they refuse to take food, or medicine, or any thing which appears absolutely necessary, coercion is proper, or sometimes these caprices may be overcome by stratagen; or exiting measy sensations by the motion of from local irritation. In the management of the in-

Frazinus ornus

MANNA BRIGANTIACA. A species of manna brought from the neighbourhood of Brianconois, in Dauphiny.

Manna callergine (Calabrian manna, Manna callergine, Calabrian manna, Manna canulara. Flaky manna, or manna concreted on straw, or chips.

MANNA THURIS. A coarse powder of olibanum. MANNIPERA ARBOR. (From manna, and fero, to bear.) See Fravious ornus.

MANSO'RIUS. (From mando, to chew.) The mas-

MANUS. The name of a bandage.

MANUS. The hand. This consists of the carpus, metacarpus, and fingers.

MA'NUS DEL. 1. A name of a resolvent plaster, described by Lennery.

2. An old name of optum.

MAPLE. See Acer pseudoplatanus, and acer sac-

charinum.

Charimum. Mark'nna. A species of myrtle, growing in the island of Ceylon, a decoction of the leaves of which is said to be excellent against the venereal disease.

MARA'NTA. 1. The name of a genus of plants

in the Linnæan system. Class, Monandria; Order,

2. The name of the Indian arrow root, of which there are three species, the Arundinacca, Galanga, and Comesa, all of them herbaceous, perennial exotics and Comesa, all of them herbaceous, perennial exotics of the Indies, kept here in hot-houses for curiosity; they have thick, knotty, creeping roots, crowned with long, broad, aundinaceous leaves, ending in points, and upright statks half a yard high, terminated by bunches of monopetalous, ringent, five-parted flowers. They are propagated by parting the roots in spring, and planting them in pots of light rich earth, and then

planting them in pois of ight free earth, and then plunging them in the bark-bed.

Maranta arundinacea. The root of this species, commonly called arrow-root, is used by the Indians to extract the virus communicated by their poisoned arrows, from whence it has obtained its name. It is confirmed in produce and marketing translations and the contract of the confirmed in the confir arrows, from whether it as obtained is frame. It is cultivated in gardens and provision-grounds in the West Indies; and the starch is obtained from it by the following process:—The roots, when a year old, are dug up, well washed in water, and then beaten in a large deep wooden mortar, to a pulp; this is thrown into a large tub of clean water: the whole is then well into a large into of clean water: the whole is then well stirred, and the fibrous part wrung out by the hands, and thrown away. The milky liquor being passed through a hair sieve, or coarse cloth, is suffered to settle, and the clear water drained off. At the bottom of the vessel is a white mass, which is again mixed with clean water, and drained: lastly, the mass is dried on sheets in the sun, and is pure starch.

Arrow root contains, in small bulk, a greater proportion of nourishment than any other yet known. powder, boiled in water, forms a very pleasant trans-parent jelly, very superior to that of sago or tapioca, parent jeny, very superior to that of sago or fapica, and is much recommended as a nutritious diet for children and invalids. The jelly is made in the following manner:—to a dessert spoonful of powder, add as much cold water as will make it into a paste; then pour on half a pint of boiling water: sit if briskly, and boil it a few minutes, when it will become a clear smooth jelly; a little sugar and sherry wine may be added for debilitated patients, but for infants a drop or two of cometimes these caprices may be overcome by stratagem; or exciting uneasy sensations by the motion of a swing, whiring chair, &c. In order to remove any deranged association of ideas, it will be right to endeavour to occupy their minds with some agreeable and regular train of thought, cheerful music, poetry, narrative, the elementary pages of geometry, &c. active cording to their previous inclinations; to lead them tradually to their former-habits, and the society of their friends, engage them in rural sports, take them to public amusements, the watering places, &c. but with as little appearance of design as possible.

MANIETTAL See Jatropha maximal.

MANIETTAL See Jatropha maximal felly, and beil them for a few minutes. If the child should be much troubled with flatulency, two or three drops of essence of caraway-seeds, or a second or caraway-seeds.

port wine, or brandy, will answer best.

MARANTA GALANGA. The smaller galangal. The roots of this plant are used medicinally; two kinds of galangal are mentioned in the pharmacopæias; the greater galangal obtained from the Kampferia galanga greater galangal obtained from the Kampferia gluongal of Linneus, and the smaller galangal, the root of the Maranta galanga; caulino simplici foliis lanceolatis subsessitions of Linneus. The dried root is brought from China, in pieces from an inch to two in length, scarcely half so thick, branched, full of knots and joints, with several circular rings of a reddish-brown colour on the outside, and brownish within. It has an aromatic smell, not very grateful, and an unpleasant, bitterish, hot, biting taste. It was formerly much used bitterish, hot, biting taste. It was formerly much used as a warm stomachic bitter, and generally ordered in bitter intusions. It is now, however, seldom employed

MARA'SMUS. (From μαραινώ, to grow lean.)
Emaciation. 1. A wasting away of the flesh, without fever or apparent disease. See .htrophia.

The name of a genus of diseases in Good's Nosology. Class, Hamatica; Order, Dysthetica. Emaciation. It embraces four species, viz. Marasmus atrophea, elementericus, tabes, phthisis.

Marathritus. (From μαραθρου, fennel.) A vinous infusion of fennel; or wine impregnated with fennel.

MARATHROPHY LLUM. (From μαραθρου, femnel, and φυλλου, a leaf: so named because its leaves resemble those of the common femnel. See Peucedanum officinale.

MARA THRUM. (From μαραινω, to wither: so called because its stalk and flowers wither in the autumn.

See . Inethum faniculam.

MARATHRUM SYLVESTRE. See Peucedanum offici-

MARBLE. A species of limestone or carbonate of lime. Powdered marble is used in pneumatic medi

the cline, to give out carbonic acid gas.

MARCASITE. See Bismuth.

MARCESCENS. Withering, decaying: applied to
the periantles of the Pyrus communits, and Mespelus

MARCHANTIA. (Named after Marchant, who wrote several Essays on the Memoirs of the Academy of Science, 1713.) The name of a genus of plants. Class, Cryptogamia; Order, Algae.

MARCHANTIA POLYMORPHA. The systematic name of the liverwort. Hepatica terrestris; Jecoraria. A plant very common in this country. It has a penetrating though midd pungency, and bitter taste, sinking, as it were, into the tongue. It is recommended as an aperient, resolvent, and antiscorbutic; and, though seldom used in this country, appears to be a plant of no inconsiderable virtue. inconsiderable virtue.

MARCO'RES. (Marcores, pl. of marcor; from marceo, to become lean.) Universal emaciation. The first order in the class Cachezia, of Cullen's No-

sology.

MARESTAIL. See Hippuris vulgaris.

MARGARITA. (From margalith, Rab.) The pearl. 1. The pearl. Perla; Unio. A small, calcareous concretion, of a bright transparent whiteness, found on the inside of the shell, Concha margaratifera of Linnæus, or mother-of-pearl fish. Pearls are very highly prized. They consist of alternating concentric layers of membrane and carbonate of lime. They was formedly axhibited as antacids. were formerly exhibited as antacids.

2. A tumour upon the eye resembling a pearl.
MARGARITIC ACID. (Acidum margariticum;
from margarita, the pearl: so called from its pearly
appearance.) Margaric acid. When we immerse appearance.) Margaric acid. When we immerse soapunde of pork-grease and potassa in a large quantity of water, one part is dissolved, while another part is precipitated in the form of several brilliant pellets. These are separated, dried, washed in a large quantity of water, and then dried on a filter. They are now dissolved in boiling alkohol, sp. gr. 0.820, from which, as it cools, the pearly substance falls down pure. On acting on this with dilute muriatic acid, a substance of a peculiar kind, which Chevreuil, the discoverer, calls margarine, or margaric acid, is separated. It must be well washed with water, dissolved in boiling alkohol, from which it is recovered in the same crystalline pearly form, when the solution cools.

and tastalong, Its

little grated nutmeg may be added; but for adults, | smell is feeble, and a little similar to that of melted wax. Its specific gravity is inferior to water. It melts at 1348 F. into a very limpid, colourless liquid, which crystallizes, on cooling, into brilliant needles of the finest white. It is insoluble in water, but very soluble in alkohol, sp. gr. 0.800. Cold margaric acid has no action on the colour of himms; but when heated so as to soften without melting, the blue was reddened. It combines with the salifiable bases, and forms neutral compounds. Two orders of margarates are formed, the margarates and the supermargarates, the former being converted into the latter, by pouring a large quantity of water on them. Other fats besides that of the hog yield this substance

That of man is obtained under three different forms. 1. In very fine long needles, disposed in flat stars. 2. In very fine and very short needles, forming waved figures, like those of the margaric acid of careasses. 3. In very large brilliant caystals disposed in stars, similar to the margaric acid of the hog. The margaric acids of man and the heg resemble each other; as denoted those of the ox and the sheep; and of the cose on the jaguar. The compounds, with the bases, are real The solution in alkohol affords the transparent

soaps. The solution in alkohol affords the t soap of this country. MARIGOLD. See Calendula officinalis.

Marigold, marsh. See Caltha palustris.
MARINE. (Marinus; from mare, the sea.) Appertaining to the sea.

Marine soil. See Muriatic acid. Marine salt. See Soda murias.

MARIPE'S DAM. A plant in the island of St. Domingo: a distilled water from the tops is held in great esteem against pains in the stomach.

MARI SCA. An excressence about the anus, or the piles in a state of tumefaction.

Mari sict M. The Mirawialis fruticosa.

MARJORAM. See Originum.

MARJORA NA. See Originum.

MARLE. See Limstone.

MARMALADE. The pulp of quinces, or any other

fruit, boiled into a consistence with honey.

MARMARY G.E. (From μαρμαίρω, to skine.) An appearance of sparks, or coruscations, flashing before

Marmola'ria. (From marmer, marble: so named because it is spotted like marble). See Acanthus mollis

MARMOR. Marble.

MARMOR METALICUM. Native sull hate of barytes. MARMORA'TA AURIUM. (From marmor, marble.) The wax of the ear.

MARMO RELS TARTARUS. The hardest species of human calculus.

MARMORIGE. An affection of the eyes, in which sparks and flashes of fire are supposed to present them-

MAROCO'STINUM. A purgative extract made of the marum and costus; originally made by Minde-

MARROW. Medulla. The fat substance secreted by the small arteries of its proper membrane; and con-tained in the medullary cavities of the long cylindrical

bones. See Bone.

Marrow, spinal. See Medulla spinalis.

Marrubla'strum. The Balote nigra, or stinking

MARRUBIUM. (From marrob, a bitter juice, Heb.) Hoarhound. 1. The name of a genus of plants in the Linnman system. Class, Didynamia; Order, Gumnospermia.
2. The pharmacopæial name of the common hoar-

2. The pharmacopheta make of the common machine of the common machine. See Marrubium vulgare.

MARRUBIUM ALVSSON. Alyssum. Galen's madment. It is supposed to be diaphoretic.

MARRUBIUM AQUATICUM. Water hoarhound; open-

ing, corroborant.

MARRUBIUM HISPANICUM, or Spanish hoarhound.

See Marrabium verticillatur MARRIBIUM NIGRUM FŒTIDUM. The black, stink-

ing hearhound, or Balate nigra.

MARRUBH M VERTIS STRICE M. Marrubium hispani-m. The Sideritis Striaca, or base hoarhound. MARRUBHUM VILGARZ. The systematic name of MARRENIUM VILGARZ. The systematic name of the common hoarhound. Marrubium album; Marrubium—dentibus calycinis, setaccis uncinatis of Linnaus. The leaves of this indigenous plant have a moderately strong smell of the aromatic kind, but not agreeable; which, by drying, is improved; and in keeping for some months is, in great part dissipated; their taste is very bitter, penetrating, diffusive, and their taste is very onter, penetrating, uthusive, and durable in the mouth. That hearhound possesses some share of medicinal power, may be interred from its sensible qualities; but its virtues do not appear to be clearly ascertained. It is a favourite remedy with the common people in coughs and asthmas. The usual dose is from half an ounce to an ounce, in infusion, two or three times a day. The dose of the extract is

MARS. The mythological and alchemistical name of iron.

MARS ALKALIZATUS. One of the alkalics with an admixture of iron.

Mars saccharatus. Iron mixed with starch and melted sugar.

MARS SOLUBILIS. Ferrum tartarizatum

MARS SULPHURATUS. Iron filings, and sulphur deflagrated.

Marseille hart-vort. See Seseli tortuosum.

Marsh-matlow. See Althea officinalis.

Marsh trefoil. See Menyanthes trifoliata.

MARSI-PIALIS. (From marsupeum, a purse:

50 named from its resemblance.) See Obturator in-

Martagon ldy. See Ldium martagon.
MARTIAL. (Martialis; from Mars, iron.) Sometimes used to express preparations of iron, or such as

are impregnated therewith; as the Martial Regulus of antimony, &c.

The protoxide of iron.

Martial ethiops. The protox Martial salts. Salts of iron. MARTIA TUM UNGUENTUM. Soldiers' ointment.

Ointment of laurel, rue, marjoram, &c.
Martis Limatura Praparata. Purified filings

MARTYN, JOHN, was born in 1699. His father being in a mercantile station in London, he was intended to succeed in this, which he does not appear to have neglected; but his taste for literature led him to devote much of the night to study. His partiality, however, was particularly directed to botany, and he made many experiments on the germination of seeds, When about 22 years of age, he became secre tary of a botanical society, and proved one of its most active members: three years after, he was admitted into the Royal Society, and many of his papers ap-peared in the Philosophical Transactions, of which he subsequently took a part in the abridgment. At what period he changed to the medical profession is not known. In 1726, he published his tables of officinal plants, disposed according to Ray's system. Having given public lectures on botany in London with much approbation, he was thought qualified to teach that science at Cambridge; and accordingly, in the following year, he delivered the first course ever heard in that university. In 1730, he entered at Emanuel college, with an intention of graduating in physic; but this was soon abandoned on his marriage, and from the necessary attendance to his profession in Loudon. On the death of the botanical professor at Cambridge, Mr. Martyn was appointed to succeed him in the beginning of 1733; but he continued lecturing only two or three years, owing to the want of sufficient encouor unee years, owing to the want of sufficient encouragement, and especially of a botanic garden there. In 1741, he published a splendid quarto addition of Virgil's Georgics, in which much new light was thrown on the natural history of that author. Dr. Halley having assisted him in the astronomical part; this was followed by the Bucolics, on the same plan. In 1752, he retired from practice, and about nine years after reretired from practice, and about nine years after resigned his professorship in favour of his son, the Rev. Thomas Martyn; in consequence of whose election he presented his botanical library, of above 200 volumes, with his drawings, herbarium, &c. to the uni-He died in 1768.

(From mar, Hebrew for bitter: so ts taste.) Several species of teucrium MA'RUM. named from its taste.)

were so named.

MARUM CRETICUM. See Teucrium marum (From mar, bitter, Hebrew.) MARUM SYRIACUM.

See Teucrium marum.

Marum verum. See Teucrium marum.

Marum vulgare. See Thymus mastichina.

MA'RVISUM.

Ma'rvisum. Malmsey wine. MA'SCHALE. Μασχαλη. The armpic

MASCHALL STER. (From μασχαλιζηρ.) The second

vertebra of the back.

MASCULUS. There are two sexes of animals and vegetables, the male and the female. The male of animals is distinguished by his peculiar gental organs, and the analogy is carried to vegetables. A flower is called a male flower, which has stamina only, which are reckoned by the sexualists to be the male organ.

A medicine of the opiate kind, in use MA'SLACH.

MA'SLACH:
among the Turks.
Magnetia. The leaf of the asafertida plant.

MASSA. (From μασσω, to blend together.) A ass. A term generally applied to the compound out mass. which pills are to be formed.

MASSA CARNEA JACOBI SYLVII. See Flexor longus

digitorum pedis.

MA'SSALIS. An old name for mercury.

MASSETER. (From μασσασμαι, to chew; because it assists in chewing.) Zizomato-mazilaire, of Dumas. A muscle of the lower jaw, situated on the side of the face. It is a short, thick muscle, which arises, by fleshy and tendinous fibres, from the lower edge of the mealy and tendinous loves, from the lower edge of the malar process of the maxillary bone, the lower hori-zontal edge of the os malæ, and the lower edge of the zygomatic process of the temporal bone, as far backwards as the eminence belonging to the articulation of the lower jaw. From some little interruption in the fibres of this muscle, at their origin, some writers de-scribe it as arising by two, and others by three, distinct portions, or heads. The two layers of fibres, of which it seems to be composed, cross each other as they descend, the external layer extending backwards, and the internal one slanting forwards. It is inserted into the internal one slanting forwards. the basis of the coronoid process, and into all that part of the lower jaw which supports the coronoid and con-dyloid processes. Its use is to raise the lower jaw, and, by means of the above-mentioned decussation, to move it a little forwards and backwards in the act of

MASSICOT. The yellow oxide of lead. Massoy cortex. See Cortex massoy. MASSOY CORTEX. MASTERWORT. See Imperatoria.

MASTIC. See Pistachia lentiscus.

MASTICATION. (Masticatro; from mastico, to chew.) Chewing. A natural function. It embraces the seizing catching, or taking the food, the chewing and the insalivation. The organs for taking in food

and the insartation. The organic providing in the mouth.

The mouth is the oval cavity formed above, by the palate and the upper jaw; below, by the tongue and the lower jaw; on the sides, by the cheeks; behind, by the velum of the palate and the pharynx; and in front

by the lips.

The dimensions of the mouth are variable in different persons, and are susceptible of an enlargement in every direction; downwards, by lowering the tongue and separating the jaws; transversely, by the distention of the cheeks, and from the front backward, by the motion of the lips, and of the velum of the palate.

The laws determine most particularly the form and dimensions of the mouth; the superior jaw makes an essential part of the face, and moves only along with the head; on the contrary, the inferior possesses a very

great mobility.

The jaws are furnished with small, very hard bodies, called teeth.

The edge of the socket is covered with a thick layer, fibrous, resisting, denominated gum.

We ought to consider in the parts that contribute to the apprehension of aliments, the muscles that move the jaws, and particularly the inferior. The same thing takes place with the tongue, the numerous motions of which have a great influence on the dimensions of the mouth.

Mechanism of the taking of food.—Nothing is simpler than the taking in of aliments: it consists in the pler than the taking in of aliments: it consists in the introduction of alimentary substances into the mouth. For this purpose the hands seize the aliments, and divide them into small portions susceptible of being contained in the mouth, and introduce them into it either/directly or by means of proper instruments. But, in order to their being received into this cavity, the jaws must separate; in other words, the mouth

In many cases, when the food is introduced into the

mouth, the jaws come together to retain it, and assist change of temperature: 2d, mixture with the fluids that in mastication, or depinition; but frequently the elevation of the inferior jaw contributes to the taking of the food. We have an example of it when one bites into fruit: then the incisors are thrust into the alimentary substance in opposite directions, and, acting as the blades of season that date to the contribution of the directions and, acting as the blades of season to the date. as the blades of scissors, they detach a portion of the mass

This motion is produced, principally by the contrac-tion of the elevated muscles of the lower jaw, which represents a lever of the third kind, the power of which is at the insertion of the elevating muscles, the point of support at the articulation temporo-maxillary the resistance in the substance upon which the teeth act. The volume of the body placed between the incisors has an inducace upon the force by which it may be pressed. If it is small, the power will be much may be pressed. If it is small, the power was be much greater, for all the elevating muscles are inserted perpendicularly to the jaw, and the whole of their force is employed in moving the lever that it represents. If the volume of the body is such that it can hardly enter the mouth, though it presents very little resistance, the incisors will not enter it, for the masseter, the temporal. and the internal ptergoid muscles, are inserted very obliquely into the jaw, whence results the loss of the greater part of the force that they develope in contracting. When the efforts of the muscles of the jaws are not sufficient to detach a portion of the alimentary mass, the hand so acts upon it as to separate it from the portion retained by the teeth. On the other hand, the posterior muscles of the neck draw the head strongly back, and from the combination of these efforts results the separation of a portion of the food which remains in the mouth. In this mode the incisors and remains in the mouth. In this mode the increase and eye teeth are generally employed; the grinders are rarely used. By the succession of these motions of taking food the mouth is filled, and on account of the suppleness of the cheeks, and the easy depression of the tongue, a considerable quantity of food may be accomplished by it. accumulated in it.

When the mouth is full, the velum of the palate is lowered, its inferior edge is applied upon the most dis-tant part of the base of the tongue, so that all communication is intercepted between the mouth and the pha-

Independently of what we have said of the mouth, in respect to taking the food, to conceive its uses in masti cation and insalivation, it is useful to remark that cation and insalivation, it is useful to remark that fluids abound in the mouth proceeding from different sources. First, the mucous membrane which covers its sides secretes an abundant mucosity; numerous isolated, or agglomerated follicles that are observed in the interior of the cheeks, at the junction of the lips with the gums, upon the back of the tongue, on the auterior aspect of the relum and the uvula, pour continually the liquid that they form into the internal surface with the mouth. The same thing takes where with face of the mouth. The same thing takes place with mucous glands, which exist in great number in the in-

terior of the cheeks and palate.

Lastly, there is poured into the mouth, the saliva secreted by six glands, three on each side, and which bear the name of parotul, sub-maxellary, and sub-lingual. The first, placed between the external ear and gual. The first, placed between the external car and the jaw, have each a secreting canal which opens on the level of the second small superior grinder; each maxillary gland has one which terminates on the sides of the longue, near which those of the

sub-lingual glands open.

These fluids are probably variable in their physical and chemical properties according to the organs by which they are formed; but the distinction has not yet been established by chemistry by direct experiments: the mixture under the name of saliva has been exactly

Among the alimentary substances deposited in the mouth, the one sort only traverse this cavity without suffering any change; the others, on the contrary, remain a considerable time in it, and undergo important modifications. The first are the soft sorts of food, or nearly liquid, of which the temperature is little different from that of the body; the second are the aliments. which are hard, dry, fibrous, and those whose temperature is more or less different from what is proper for the animal economy. They are both in common, however, appreciated by the organs of taste in passing through the mouth.

We may attribute to three principal modifications

are poured into the mouth, and sometimes dissolution in these fluids: 3d, pressure more or less strong, and very often division, which bruising destroys the cohesion of their parts. It is besides easily and frequently transported from one part of this cavity to another. These three modes of change do not take place successively, but simultaneously, by mutually favouring each other.

The change of temperature of the food retained in The change of temperature of the food retained in the mouth is evident; the sensation which it exertes in it is sufficient to prove this. If it has a low tempera-ture, it produces a vivid impression of cold, which continues until it has absorbed the caloric necessary to bring it near to the temperature of the sides of the mouth; the contrary takes place if the temperature is higher than that of the mouth.

It is the same with our judgment on this occasion, as with that which relates to the temperature of bodies which touch the skin; we join to it, unknown to us, a comparison with the temperature of the atmosphere and with that of the bodies which have been previously in contact with the mouth; so that a body preserving the same degree of heat will appear to us alternately hot or cold, according to the temperature of the bodies formerly in the mouth.

The change of temperature that the food undergoes in the mouth is only an accessary phenomenon; its tritufluids poured into this cavity, are what merit particular

As soon as an aliment is introduced into the mouth, it is pressed by the tonine, applying it against the palate, or against some other part of the sides of the mouth. If the aliment is soit, if its parts cohere but little, this simple pressure is enough to break it; if the alimentary substance is composed of liquid and solid, the figuid is expressed by this pressure, and the solid part only remains in the mouth. The tongue produces the effect, of which we speak, so much better in propertion as its membrane is muscular, and as a great number of muscles are destined to move it.

number of muscles are destined to move it.

It might astonish us that the tongue, which is so soft, could be capable of breaking a body offering even small resistance; but, on the one band, it bardens in contracting, like all the muscles, and, besides, it presents under the mucous membrane which covers its superior

aspect, a dense and thick fibrous layer.

Such are the phenomena that take place if the food has but little resistance; but if it presents a considera ble resistance, it then undergoes the action of the masticating organs.

The essentral agents of mastication are the muscles that move the jaws, the tongue, the cheeks, and the lips: the maxillary bones and the teeth serve only as

simple instruments.

Though the motions of both jaws may contribute to mastication, it is produced almost always by those of the inferior one. This bone may be lowered, raised, and pressed strongly against the upper jaw: carried forward, backward, and even directed a little towards the sides. These different motions are produced by the numerous muscles which are attached to the jaw.

But the jaws could never have produced the necessary effect in mastication if they had not been furnished with teeth, the physical properties of which are par

ticularly suited to this digestive action.

[There are exceptions to all rules, and although teeth are absolutely necessary in general, yet it is within our knowledge that a man, who has followed the coasting trade from New-York, never had any teeth, and could eat crackers, ship bread, or any hard substance, break-ing and chewing it with his gums, as well as any one

with teeth. A.]

Mechanism of mastication.—For the commencement of mastication, the inferior jaw must be lowered, an effect which is produced by the relaxation of its elevating, and the contraction of its depressing muscles. The food must then be placed between the dental arches, either by the tongue or some other agent: the inferior jaw is then raised by the masseter, internal pterygeid, and temporal muscles, the intensity of whose contraction depends upon the resistance of the food. This being pressed between two unequal surfaces whose asperities fit into each other, is divided into small portions, the number of which is in proportion to : 1st, ; the facility with which they have given way.

But a motion of this kind reaches only a part of the But a motive of the mouth, and it must be all equally divided. This takes place by the successive motions of the inferior jaw, and by the contraction of the muscles of the cheeks, of those of the tongue and lips, which bring the food between the teeth successively and promptly during the separation of the jaws, that it may be bruised when they come together.

When the alimentary substances are soft and easily when the americary substances are soft and easily bruised, two or three masticatory motions are sufficient to divide all that is in the mouth; the three kinds of teeth are employed in it. A longer continued mastication is necessary when the substances are more resisting, fibrous, or tough: in this case we chew only with the malares, and other poly with the molares, and often only with one side at a time, to allow the other to rest. In employing the grinders allow the other to rest. In employing the grinders there is an advantage of shortening the arm of the lever represented by the jaw, and by so doing of rendering it more advantageous for the power that moves it.

In the mastication, the teeth have sometimes to sup-

port very considerable efforts, which would inevitable shake, or else displace them, were it not for the extreme solidity of their articulation with the jaws. Each root acts like a wedge, in transmitting to the sides of the

sockets the force by which it is pressed.

The advantage of the conical form of the roots is not doubtful. By reason of this form, the force by which the tooth is pressed, and which tends to thrust it into the jaw, is decomposed; one part tends to separate the sides of the sockets, the other to lower them; and the transmission, instead of being carried to the extremity of the root, which could not have failed to take place in a cylindric form, is distributed over all the surface of the socket. The grinders that have more considerable efforts to sustain, have a number of roots, or at least one very large. The incisors and eye teeth, that have only one small root, have never any great pressure to support.

If the gums had not presented a smooth surface and a dense tissue, placed as they are round the neck of the teeth and filling their intervals, they would have been torn every instant; for, in the mastication of hard and irregular substances, they are constantly exposed to the pressure of their edges and angles. This inconvenience happens whenever their tissue becomes soft, as in scor-

butic affections.

During the time of mastication the mouth is shut behind by the curtain of the palate, the anterior surface of which is pressed against the base of the tongue; the food is retained before by the teeth and the lips.

Insalization of the aliments .- Whenever we have an appetite, the view of food determines a considerable afflux of saliva into the mouth; in some people it is so strong as to be projected to the distance of several

While the aliments are bruised and triturated by the masticating organs, they imbibe, and are penetrated completely by the fluids that are poured into the mouth, and particularly by the saliva. It is easy to conceive that the division of the food and the numerous displacements that it suffers during mastication, singularly favour its mixture with the mucous and salivary interest.

vary juices.

Most of the alimentary substances submitted to the action of the mouth are dissolved or suspended wholly or in part in the saliva, and immediately they become proper for being introduced into the stomach, and are

forthwith swallowed.

On account of its viscosity, the saliva absorbs air, by which it is swept in the different motions necessary for mastication; but the quantity of air absorbed in this circumstance is inconsiderable, and has been generally

exaggerated.

Of what use is the trituration of food and its mixture with the saliva? Is it a simple division which renders the aliments more proper for the alterations which they undergo in the stomach, or do they suffer the first de-gree of animalization in the mouth? On this point there is nothing certain known.

18 nothing certain known.

Let us remark that mastication and insalivation change the savour and odour of the food; that mastication, sufficiently prolonged, generally renders digestion more quick and easy; that, on the contrary, people who do not chew their food, have often on this account very painful and slow digestion .- Magendie's Physiology.

MASTICATORY. (Masticatorium; from mastico, others.) A medicine intended for chewing. to chew.) A me (From µaσσω, to express.) See Pis-

tacia lintiscus. See Thymus mastichina. Mastich-herb.

Mustecherh. See Thymus mastichma.
Mustecherh. See Thymus mastichma.
Mustecherre. See Pistacia lentiscus.
Mastichwood. See Pistacia lentiscus.
Mastichtelle. Vat. (From paşexn, mastich, and chaor, oil.) Oil of mastich.
Mastichtma. (Diminutive of mastiche.) See Thy-

mus mastichina.

Masticot. See Massicot. Ma'stix. See Pistacia lentiscus.

Ma'STIX. See Pistacia tentiscus.
MaSTODYNIA. (From µayas, a breast, and occup, pain.) Nacta. Phlegmon of the breast of women. This disease may take place at any period of life, but it most commonly affects those who give suck. It is characterized by tunefaction, tension, heat, redness, and pain; and comes sometimes in both breasts, but most commonly in one. Pyrexia generally breasis, but most commonly in one. Tyrean penetrally attends the disease. It is sometimes very quickly formed, and in general without any thing preceding to show it; but now and then a slight shivering is the forerunner. This disease terminates either in resolution, in suppuration, or scirrhus. If the disease is left to itself, it generally terminates in suppuration.

The causes which give rise to this disease, are those which give rise to most of the phlegmasia, as cold, which give rise to most of the phicgmasus, as cold, violent blows, &c. In women who are lying-in, or giving suck, it mostly arises either from a suppression of the lochia, or a retention of milk. Mastodynia is often of long continuance; it is a very painful disease, but is seldom fatal, unless when absolutely neglected, when it may run into scirrhus, and finally cancer. The termination of the disease by gangrene is never to be apprehended, at least few, if any, have seen the disease terminate in this way.

terminate in this way.

MASTOID. (Mastoideus; from µaços, a breast, and two secondaries). I. Those processes of bones are so named that are shaped like the mpple of the breast, as the masoid process of the temporal bone.

2. The name of a muscle. See Sterno-cleido-mas

Mastoid foramen. A hole in the temporal bone of the skull.

MASTOIDEUS LATERALIS. A name for the complexus

MATALI'STA RADIX. A root said to be imported from America, where it is given as a purgative, its action being rather milder than that of jalap.

(Marno, a mother; so called by the Arabians, who thought they gave origin to all other membranes of the body.) 1. Two membranes of the brain had this epithet given them. See Dura mater, and Pia mater.

2. A name of the herb mugwort, because of its virtue

in disorders of the womb.

MATER HERBARUM. Common mugwort. See Artemisia vulgaris.

MATER HEREARLM. Common mugwort. See Artemsia rulgaris.

MATER METALLORUM. Quicksilver.

MATER PERLARUM. See Margarita.

MATERIA. A term given to a substance that is selected for a particular experiment or purpose, which is expressed by adding the name of that purpose; hence materia medica, materia chemica, &cc.

MATERIA MEDICA. By this term is understood a general class of substances, both natural and artificial, which are used in the cure of diseases.

Cartheuser, Newman, Lewis, Gleditsch, Linnæus, Vogel, Alston. Bergius, Cullen, Murray, Paris, in his excellent work on pharmacology, and other witers on the Materia Medica, have been at much labour to contrive arrangements of these articles. Some have disposed them according to their natural resemblances; others according to their active constituent principles, others according to their active constituent principles, These arrangements have their peculiar advantages.

These arrangements have their peculiar advantages.

The first may be preferred by the natural historian, the second by the physiologist, and the last by the chemist. The first may be preferred by the natural mistorian, the second by the physiologist, and the last by the chemist. The pharmacoparias, published by the Golleges of Physicians of Lendon, Dublin, and Edinburgh, have the activeless of the Materia Medica arranged in alphabetical under this plan is also adopted by almost all the construction of the physicians of the physician of the tinental pharmacopains.

# MATERIA MEDICA.

|                                       | MATERIA                                | MEDICA.                         |                                     |
|---------------------------------------|--|---------------------------------|-------------------------------------|
| Dr. Cullen has arranged th            | e Materia Medica as fol-               | Producing a ch                  | ange of                             |
|                                       |  | fluidity,                       |                                     |
| NUTRIMENTS, which are Food,           |  | Atter                           | euants,                             |
| Drinks,                               |  | Mixture,                        | issants.                            |
| Condiment                             | s;                                     |                                 | ectors of Acrimony,                 |
| A MEDICINES which act on              | the                                    |                                 | Demulcents,                         |
| (Solids,                              |  |                                 | Antacids,                           |
| Sili                                  | aple, as Astringents,                  |                                 | Antalkalines,                       |
|                                       | Tonics.                                | Evacuants; vi                   | Antiseptics.                        |
|                                       | Tonics,<br>Emollients,                 |                                 | Errhines,                           |
| 7 1-                                  | Corrosives:                            |                                 | Sialagogues,                        |
| 1 IIIv                                | ing, as Stimulants,                    |                                 | Expectorants,<br>Emetics,           |
| i                                     | Sedatives,                             |                                 | Cathartics,                         |
|                                       | Schatives,  Narcotics,  Refrigerants   |                                 | Diuretics,                          |
|                                       | Refrigerants, Antispasmodics.          |                                 | Diaphoretics,<br>Emmenagogues.      |
| Fluids,                               | vinus pasmoutes.                       | 1                               | Emmentagogues.                      |
| The following                         | ng is a list of articles which         | ch come under the preceding     | g classes :-                        |
| I. NUTRIMENTS.                        | Wormwood                               | Benzoin.                        | Farinaceous and much                |
| a. FRUITS. a. Fresh, sweet, acidu-    | Southernwood<br>Sea-wormwood           | Aromatics,<br>Cinnamon          | laginous demulcents 12. Demulcents. |
| lous, as                              | Water-germander                        | Nutniez                         | Mucilaginous,                       |
| Prunes                                | Virginian snake-root                   | Mace                            | Guin arabic                         |
| Oranges                               | Leopard's bane                         | Clove                           | - tragacanth.                       |
| Lemons<br>Raspberries                 | Peruvian bark. 3. EMOLLIENTS.          | Allspice<br>Canella             | Farinaceous,                        |
| Red and black currants                | Columniferous,                         | Cascarilla                      | Starch                              |
| Mulberries                            | Marsh mallow                           | Black pepper                    | Bland oils.                         |
| Grapes, &c.                           | Mallow. Furinaceous,                   | Long pepper                     | 13. ANTACIDS. Alkalies and earths.  |
| b. I) ried, sweet, acidu-<br>lous, as | Quince-seeds                           | Indian pepper<br>Ginger         | 14. ANTALKALINES.                   |
| Raisins                               | Fænugreek-seed                         | Lesser cardamom                 | Acids.                              |
| Currants                              | Linseed                                | Zedoary                         | 15. Antiseptics.                    |
| Figs. β. OLERACEOUS HERBS.            | Various emollients,<br>Pellitory       | Virginian snake-root<br>Ginseng | Acid parts of plants Acescent herbs |
| Water-cresses                         | Verbaseum                              | Aromatic reed.                  | Sugar                               |
| Water-cresses<br>Dandelion            | White lily.                            | Acrids.                         | Siliquose plants                    |
| Parsley                               | 4. Corrosives. 5. Stimulants.          | Wake-robin<br>Pellitory         | Alliaceous plants Astringents       |
| Artichoke.                            | Verticellated,                         | Stavesacre.                     | Bitters                             |
| Carrot                                | Lavender                               | 6. NARCOTICS.                   | Aromatics                           |
| Garlick                               | Balm                                   | Rhæadaceous,                    | Essential oils                      |
| Satyrion. J. Seeds and Nuts.          | Marjoram<br>Sweet marjoram             | White poppy<br>Red poppy.       | Camphor<br>Gum resins               |
| Almonds, sweet and                    | Syrian herb mastich                    | Umbellated,                     | Saffron                             |
| bitter                                | Rosemary                               | Hemlock                         | Contrayerva                         |
| Wainuts<br>Olives.                    | Hyssop                                 | Water hemlock. Solanaceous,     | Valerian                            |
| II. MEDICINES.                        | Ivy<br>Mint                            | Belladonna                      | Opium<br>Wine.                      |
| 1. ASTRINGENTS.                       | Peppermint                             | Henbane                         | 16. Errhines.                       |
| Red rose                              | Pennyroyal                             | Tobacco<br>Bitter-sweet         | Asarabacca<br>White hellebore       |
| Cinquefoil Tormentil                  | Thyme<br>Mother of thyme               | Stramonium                      | Water iris                          |
| Madder                                | Sage.                                  | Varia,                          | Pellitory.                          |
| Sorrel                                | Umbellated,                            | Laurel                          | 17. SIALAGOGUES.                    |
| Water-dock                            | Fennel<br>Archangel                    | Camphor<br>Sailron              | Archangel<br>Cloves                 |
| Bistort<br>Fern                       | Anise                                  | Wine.                           | Masterwort                          |
| Pomegranate                           | Caraway                                | 7. Refrigerants.                | Tobacco                             |
| Oak-bark                              | Coriander                              | Fruits of plants                | Pepper<br>Pellitory.                |
| Galls<br>Logwood                      | Cumin<br>Dill                          | Acidulous herbs and roots.      | 18. Expectorants                    |
| Quince                                | Saxifrage.                             | 8. Antispasmodics.              | Ivy                                 |
| Mulberry                              | Siliquose,                             | Fætid herbs,                    | Hoarhound                           |
| Sloe                                  | Horseradish<br>Watercress              | Wormwood<br>Entid googsfoot     | Pennyroyal<br>Elecampane            |
| Gum-arabic<br>Catechu                 | Mustard                                | Fætid goosefoot<br>Cumin        | Florentine orris-root               |
| Dragon's blood                        | Scurvy-grass.                          | Pennyroyal                      | Tobacco                             |
| Alkanet                               | Alliaceous,                            | Rue                             | Squill                              |
| Balaustine flower                     | Garlick.                               | Savine.                         | Coltsfoot<br>Benzoin                |
| St. John's wort<br>Millefoil          | Coniferous,<br>Fir                     | Fætid gums,<br>Asafætida        | Storax                              |
| Plantain                              | Juniper.                               | Galbanum                        | Canada balsam                       |
| Convallaria                           | Balsamics,                             | Ороронах                        | Tolu balsam. 19. Emetics.           |
| Bear's berry.                         | Venice turpentine<br>Common turpentine | Valerian. 9. DILUENTS.          | Asarabacca                          |
| 2. Tonics.<br>Gentian                 | Canada balsam                          | Water.                          | Ipecacuan                           |
| Lesser centaury                       | Copaiba balsam                         | 10. ATTENUANTS.                 | T'obacco                            |
| Quassia                               | Tolu balsam                            | Alkalies                        | Squill<br>Mustard                   |
| Simarouba<br>Marsh trefoil            | Balm of Gilead.                        | Sugar<br>Liquorice              | Horseradish                         |
| Fumitory                              | Guaiacum                               | Dried fruits.                   | Bitters.                            |
| Camomile                              | Ladangin                               | 11. INSPISSANTS.                | 20. CATHARTICUS.                    |
| Tanga                                 | Storay                                 | Acids                           | Milder,                             |

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# MATERIA MEDICA.

Mild acid fruits Caster oil Cassia pulp Tamarind Senna Black hellebore Sugar Jalap Manna Scammony Sweet roots Buckthorn Bland oils Tobacco Damask rose Violet Coloquintida Polypody Elaterium. Mustard 21. DIVRETICS. Bitters Parsley Balsamics. Acrid, Fennel Rhubarb Pimpinel

The following is the arrangement of the Materia Medica, according to J. Murray, in his Elements of Materia Medica and Pharmacy.

A. General stimulants.

a. Diffusible | Narcotics

Emetics B. Local stimulants. Cathartics

> Diurcties Diaphoretics Sialagogues

c. Chemical remedies.

Antacids Lithontriptics

D. Mechanical remedics. Anthelmintics Demulcents

Under the head of Narcottees are included— Alkohol. Ether. Camphor. Papaver somniferum. Hyoscyamus niger. Atropa belladonna. Aconitum napellus. Conium maculatum. Digitalis purpurea. Nicotiana tabacum. Lactuca virosa. Datura stramonium. Rhododendron chrysanthemum. Rhus toxi codendron. Arnica montana. Strychnos nux vo-

Prunus lauro-cerasus.

nica. Prinus lauro-cerasus.

Under the second class, Antispasmodics, are included—Moschus. Castoreum. Oleum animale empyreumaticum. Petroleum. Ammonia. Ferula asafetida. Sagapenum. Bubon galbanum. Valeriana officinalis. Crocus sativus. Melaleuca leucadendron. Nareotics used as Antispasmodics—
Ether. Camphor. Opium.

Tonics used as Antispasmodics—
Cuprum. Zincum. Hydrargyrus. Cinchona.

The head of Toxics embraces—

1. From the mineral kingdom.

The nead of Park's Commence
1. From the mineral kingdom,
Hydrargyrus. Ferrum. Zincum. Cuprum. Armicum. Barytes. Calx. Acidum nitricum. Oxysenicum.

enicum. Barytes Calx. Acidum nitricum. Oxymurias potasses.

2. From the vegetable kingdom,
Cinchona officinalis. Cinchona caribea. Cinchona
foribunda. Cuspania. Aristolochia serpentaria. Dorstenia contraverva. Croton eleutheria. Calumba.
Quassia excelsa. Quassia simarouba. Swietenia
febrifuga. Swietenia mahagoni. Gentiana lutea. Anthemis nobilis. Artemista absinthum. Chironia centaurium. Marrubium vulgare. Menyanthes trifoliata.
Centaurea benedicta. Citrus aurantium. Citrus medica. Laurus cumanomum. Laurus cassia. Cantolia alba. Acorus calamus. Amomum zinziber.
Kætnpleria rotunda. Santalum album. Pterocarpus santalinus. Myristica moschata. Caryophyllus aro-Reinpieria rotunda. Santalum album. Pierocarpus sautalirus. Myristica moschata. Caryophyllus aromaticus. Capsicum annuum. Piper nigrum. Piper longom. Piper cubeba. Myrtus pimenta. Amomum Pepers. Carum carui. Coriandrum sativum. Pimpinella anisum. Anethum feniculum. Anethum graveolens. Cuminum cyminum. Anethum gedica. Mentha piperita. Mentha viridis. Mentha pulerum. Hysopus officinalis.

The class of Agranyanya. Carumalaguada the follow.

The class of Astringents comprehends the follow-

Bitter-sweet1

Rue

Savine

Squill

Bitters

Snakeroot

Balsamics

Alliaces

Saffron

Opium

22. DIAPHORETICS.

Bitter-sweet

cotiana tabacum.

Camphor
1. From the regetable kingdom,

Wake robin Asarabacca Foxglove Tobacco

White hellebore

Madder 1. From the vegetable kingdom, Chercus robur. Quercus cerris. Tormentilla erecta. Polygonum bistorta. Anchusa tinctoria. Ilamatoxylon campechianum. Rosa gallica. Arbutus uva usis. Minnesa catechu. Kino. Plerocarpus draco. Ficus indica. Pistachia lentiscus.

2. From the mineral kingdom. Acidum sulphuricum. Argilla. Supersulphas argilla et potassa. Catx. Carbonas calets. Plumbun. Zincum. Ferrum. Cuprum.

The articles which come under the head of Emerics, are

Antispasmodics. Tonics b. Permanent | Tomes | Astringents.

> Emnienagogues Expectorants

Epispastics. Refrigerants

Escharotics.

Emollients.

moniae.
Cathartics include
Laxatives. Manna. Cassia fistula. Tamarindus
iadica. Ricinus communis. Sulphur. Magnesia.
Purgateces. Cassia senna. Rheum palmatum.
Convolvulus jalapa. Helleborus niger. Bryonia alba.
Cucunis colocynthis. Momodica elaterium. Rhamnuscatharticus. Momodica elaterium. Rhamnuscatharticus. Aloc perfoliata. Convolvulus scammonia. Cambojia gutta. Submurias hydrargyri.
Sulphas maenesia. Sulphas soda. Sulphas potassa.
Supertartras potassa. Tartus potassa et soda. Murias soda. Terebinthina veneta. Nicotiana tabacum.
The nuclicines arranged under Emmenacogues, are:
1. From the class of Antisassamodics.

Tics, are

1. From the vegetable kingdom,
Calliocca ipecacuanha. Scilla maritima. Anthemis nobilis. Sinapis alba. Asarum europæum. Ni-

2. From the mineral kingdom.
Antimonium. Sulphas zinci. Sulphas cupri. Subacetas cupri. Ammonia. Hydro-sulphuretum am-

Contraverva

Water germander

Vegetable acids

Essential oil

23. EMMENAGOGUES.

Fætid gums

Fætid plants

Serpentaria

Guaiacum

Sassafras

Seneka

Wine

Difuents.

Saffron.

The medicines arranged under EMMENAGOGUES, are:
1. From the class of Antispasmodies.
Castoreum. Ferula asafetida. Bubon galbanum.
2. From the class of tonics.
Ferrum. Hydrargyrus. Cinchona officinalis.
3. From the class of Catharties.
Aloe. Helchorus niger. Sinapis alba. Rosmarinus ficinalis. Rubia tinctorum. Ruta graveolens. Juofficinalis. niperus sabina.
The class of Diuretics includes,

1. Saline diuretics.

Saline duretics.
 Supertartus potassæ. Nitras potassæ. Murias ammoniæ. Acétas potassæ. Potassa.
 From the vegetable kingdom,
 Scilla maritima. Digitalis purpurea. Nicotiana tabacum. Solanum dulcamara. Lactuca virosa. Colchicum autumnale. Gratiola officinalis. Spartium scoparium. Juniperus communis. Copaifera officinalis. Pinus balsannea. Pinus larix.
 From the avieral kingdom.

From the animal kingdom,

Meloe vesicatorius.

Under the class DIAPHORETICS, are,

Under the class Diaphoretics, are, Ammonia. Mutias ammonias Acetas ammonias. Citras ammonias. Submurias hydrargyri. Antimonium. Opium. Campher. Guaiacum officinale. Dapime mezereum. Smilas sarsaparilla. Laurus sassafras. Cochlearia armoracia. Salvia officinalis. The class Expectorants comprehends, Antimonium. Ipecacuanha. Nicotiana tabacum Digitalis purpurea. Scila maritima. Allium sativum. Polygala senega. Ammoniacum. Myrrha. Styrax berizoin. Styrax officinalis. Toluiera balsamum. Myroxylon peruferum. Amyris gileadensis.

henzoin. Styrax omemens: Fountera baisamum. Myroxylon peruiferum. Amyris gileadensis. The articles of the class Stalagogues are Hydrargyrus. Anthemis pyrethrum. Arum maculatum. Amomum zinziber. Daphne mezereum. Nicotiana tabacum

The class of ERRHINES are, Iris florentina. Æscu-

### MATERIA MEDICA.

lus hippocastanum. Origanum majorana. Lavendula i cupri. spica. Assarum europæum. Veratum album. Ni-cotiana tabacum. Euphorbia officinalis. In the class Epispastics, and Rubefactents are

In the class Epispastics, and Redepartments are Melov vesicatorius. Ammonia Pix Burgundica. Sinapis alba. Allium sativum.

Refrigerants are constituted by the following articles. Citrus aurantium. Citrus medica. Tamarindus indica. Acidum acetosum. Supertartras potassæ. Nitras potassæ. Boras sodæ.

The list of articles that come under the class Anterestation.

ACIDS are, Potassa. Soda. Ammonia. Calx. Carbonas calcis. Magnesia.

In the class Lithontriptics are, Potassa. Carbonas potassæ. Soda. Carbonas sodæ. Sapo albus.

cupri. Acetas cupri. Murias hydrargyri. Subnitras hydrargyri. Oxydum arsenici album. Juniperus sa-

In the class Anthelmintics are, Dolichos pruriens,

In the class Anthelmintes are, Dolichos pruriens. Ferri limatura. Stannum pulveratum. Olea europæa. Artemisia santonica. Spigelia marilandica. Polypodium filix mas. Tanacetuni vulgare. Geoffrea inermis. Gambojia gutta. Submurias bydrargyri.

Demulcents are, Mimosa nilotica. Astragalus tragacanthus. Linum usitatissimum. Althea officinalis. Malva sylvestris. Glycyrrhiza glabra. Cycas circinalis. Orchis mascula. Maranta arundinacea. Triticum hybernum. Ichthycoolla. Olea europæa. Amygdalus communis. Sevum ceti. Cera.

Water is the principal article of the class Dilubris; and as for the last class, Emollipris, honder and sefort he last class.

Calx.

In the class Escharotics are, Acida mineralia.

In the class Escharotics are, Acida mineralia.

Nitras argenti. Murias antimonii. Sulphas plications may be included.

## The New London Pharmacopæia presents us with the following list for the Materia Medica:-

Abietis resina Absinthium Acaciæ gummi Acetosæ folia Acetosella Acetum Acidum aceticum fortius Acidum citricum Acidum sulphuricum Aconiti folia Adeps Ærugo Allii radix Aloes spicatæ extractum Althææ folia et radix Alumen Ammoniacum Ammoniæ murias Amygdala amara et dulcis Amylum Anethi semina Anisi semina Anthemidis floris

Antimonii sulphuretum Antimonii vitrum Argentum Armoraciæ radix Arsenicum album Asara folia Asafætidæ gummi resina Avenæ semina Aurantii baccæ Aurantii cortex Balsamum peruvianum Balsamum tolutanum Belladonnæ folia

Benzoinum Bismuthum Bistorta radix Cajuputi oleum Calamina Calami radix Calumba

Camphora Canella cortex Cantharis Capsici baccæ

Carbo ligni Cardamines flores Cardaniomi semina Caricæ fructus Carui semina

Caryophilli

Caryophyllorum oleum Cascarillæ cortex Cassiæ pulpa Castoreum

Catechu extractum Centaurii cacumina Cera alba Cera flava

Cerevisiæ fermentum Cetaceum

Cinchonæ lancifoliæ, cordifoliæ et oblongifoliæ cortex Cinnamomi cortex

Colchici radix et semina Colocynthidis pulpa Conii folia et semina Contrayerva radix Copaiba

Coriandri semina Cornua Creta Cioci stigmata Cuheba

Cumini semina Cupri sulphas Cuspariæ cortex Cydonia semina Dauci radix Digitalis folia et semina

Dolichi pubes Dulcamaræ caulis Elaterii pepones

Euphorbiæ gummi resina Fæniculi semina Ferrum Filicis radix Fucus

Galbani gummi resina

Gentianæ radix Glycyrrhizæ radix Granati cortex Guaiaca resina et lignum Hæmatoxyli lignum

Hellebori fætidi folia Hellebori nigri radix Hordei semina Humuli strobili

Hydrargyrum Hyoscyami folia et semina Ipecacuanhæ radix Jalapæ radix Juniperi baccæ et semina Kino

Kramerıæ radix Lactuca Lavendulæ flores Lauri baccæ et folia

Limonum cortex et oleum Linum catharticum Lini usitatissimi semina Magnesiæ subcarbonas Magnesiæ sulphas

Malva Manna Marmor album Marrubium Mel

Mentha piperita Mentha viridis Menyanthes tex

Mori baccæ Moscirus

Myristica nuclei et oleum expressum Myrrha

Olibanum Olivæ oleum Opopanacis gummi resina Origanum

Ovum Papaveris capsulæ Petroleum Pimentæ baccæ

Piperis longi fructus Piperis nigri baccæ Pix abietina Pix liquida Pix nigra Plumbi subcarbonas

Plumbi oxydum semivitreum Porri radix Potassa impura Potassæ nitras Potassæ sulphas Potassæ supertartras

Pruna Pterocarpi lignum Pulegium Pyrethri radix Quassiæ lignum Quercûs cortex Resina flava Rhamni baccæ Rhei radix Rhœados petala

Ricini semina et oleum Rosæ caninæ pulpa Rosæ centifoliæ petala Rosæ gallicæ petala Rosmarini cacumina Rubiæ radix Rutæ folia Sabinæ foli

Saccharum

- purificatum Salicis cortex Sagapenum Sambuci flores Sapo durus et mollis Sarsaparillæ radix Sassafras lignum et radix

Scammoneæ gummi resina Scillæ radix Senegæ radix Sennæ folia

Serpentariæ radix Sevum Simaroubæ cortex Sinapis semina Sodæmurias Sodæ subboras Sodæ sulphas Soda impura Spartii cacumina Spigeliæ radix

Spiritus rectificatus et tenulor

Spongia

Etramonii folia et semina Stannum Staphisagriæ semina Styracis balsamum Sulphur et sulphur sublimatum Tabaci folia Tamarindi pulpa Taraxaci radix

Tartarum Terebinthina Canadensis - Chia vulgaris Terebinthinæ oleum Testa Tiglii oleum Tormentillæ radix Toxicodendri folia

Tragacantha Tussilago Valerianæ radiz Veratri radix Ulmi cortex Uva passæ Uvæ ursi folia Zincum Zingiberis radix:

MATERIA PERLATA. If, instead of crystallizing the salts contained in the liquor separated from diaphoretic antimony, an acid be poured into it, a white precipitate is formed, which is nothing else but a very refraction. Take is formed, which is nothing else but a very fory calx of antimony.

MATERIATURA. Castellus explains morbi materiatura to be diseases of intemperance.

MATLOCK. A village in Derbyshire. It affords a mineral water of the acidulous class: which issues from a linestone rock, near the banks of the Derwent. Several of the springs possess a temperature of 669.
Matlock water scarcely differs from common good spring water, in sensible properties. It is extremely transparent, and exhales no vapour, excepting in cold weather. It holds little or no excess of acrial particles; it could be a compared to the state of the state weather. It holds little or no excess of acrial particles; itcurdes soap when first taken up, bit it loses this effect upon long keeping, perhaps from the deposition of its calcareous salts; it appears to differ very little from good spring water when tasted; and its effects seem referrible to its temperature. It is from this latter circumstance that it forms a proper tepid bath for the nervous and irritable, and those of a debilitated constitution; hence it is usually recommended after the use of Bath and Buxton waters, and as preparatory to sea. Bath and Buxton waters, and as preparatory to sea-

bathing. MATRICA'LIA. MATRICA'LIA. (Matricalis; from matrix, the wornb.) Medicines appropriated to disorders of the

MATRICA'RIA. (From matrix, the womb: so called from its uses in disorders of the womb.) 1. The name of a genus of plants in the Linnæan system. Syngenesia; Order, Polygamia superflua

2. The pharmacopæial name of the Matricaria par-

See Matricaria parthenium.

MATRICARIA CHAMOMILLA. Chamamelum vulgare; Chamomilla nostras; Leucanthemum of Dioscorides. Cominon wild corn, or dog's camomile. The plant di-Common who corn, or aggs camomile. The plant arrected under this name in the phamacoppeias, is the Matricaria—raceptaculus conicis radiis patentibus; squamis calycinis, margine aqualibus, of Linnaus. Its virtues are similar to those of the parthenium, but in a much inferior degree.

MATRICABLA PARTHENIUM. The systematic name of the fever-few. Parthenium febrifuga. Common fever-few, or febrifuge, and often, but very improperly, feather-few. Mother's wort. The leaves and flowers of this plant, Matricaria—folis compositis, plants; folialis coatis, messis; pedanculis ramasis, have a strong, not agreeable smell, and a moderately bitter taste, both which they communicate by warm infusions, to water and rectified spirit. The watery infusions, inspissated, leave an extract of considerable bitterness, and which discovers a saline matter, both to the taste, and in a more sensible manner by throwing up to the surface small crystalline efforescences in keeping. The peculiar flavour of the matricaria exhales in the MATRICARIA PARTHENIUM. The systematic name The peculiar flavour of the matricaria exhales in the evaporation, and impregnates the distilled water, on which also a quantity of essential oil is found floating. The quantity of spirituous extract, according to Cartheuser's experiments, is only about one-sixth the weight of the dry leaves, whereas the watery extract amounts to near one-half. This plant is evidently the Parthenium of Dioscorides, since whose time it has been very generally employed for medical purposes. In natural affinity, it ranks with camomile and tansy, and its sensible qualities show it to be nearly allied to them in its medicinal character. Bergius states its virtues to be tonic, stomachic, resolvent, and emmenagogue. It has been given successfully as a vermifuge, gogue. It has been given successfully as a vermitige, and for the cure of intermittents; but its use is most celebrated in female disorders, especially in hysteria; and hence it is supposed to have derived the name of inatricaria. Its smell, taste, and analysis, prove it to be a medicine of considerable activity; we may, therefore, say, with Murray—Rarius hodie prascribitur, curan debates. quam debetur.

MATRISY'LVA. See Asperula.
MA'TRIX. (Marno.) 1. The womb See Uterus.
2. The earthy or stony, matter which accompanies ores, or envelopes them in the earth.
MATRON'LIS. (From matrona, a matron: so called

MATRONA LIS. (From matrona, a matron is come because its smell is grateful to women.) The violet.

MATTHIOLUS, Peter Andrew, was born at Sienna in 1501. He went to study the law at Padua; but disliking that pursuit, he turned his attention to medicine. His father's death interrupted him in his medicine. His father's death interrupted him in his progress; but having conciliated the good opinion of progress; but having conclinated the good opinion of the professors, the degree of doctor was conferred upon him before his departure. He speedily found ample employment in his native place, but afterward went to Rome, and in 1527 to the court of the prince bishop of Trent. During his residence of fourteen years there, he acquired such general esteem, that on his removal, men, women, and children, accompanied him, calling him their father and benefactor. At Gorizia, where he then settled as public physician, he likewise experienced a signal mark of gratitude; a fire having consumed all his furniture, the people flocked to him next day with presents, which more than compensated his loss, and the magistrates advanced him a year's salary. After twelve years, he accepted an invitation to the Imperial court, where he was highly honoured, and created aulic counsellor: but finding the weight of age created audic counsellor: but finding the weight of age pressing upon him, be retired to Trent, where he shortly died of the plague in 1577. He left several works, chiefly relating to the virtues of plants: and that, by which be principally distinguished himself, was a Commentary on the writings of Dioscorides. This was first published in Italian, afterward translated by him into Latin, with plates, and passed through numerous editions. He certainly contributed much to lay the foundation of botanical science, though he was not sufficiently scrupulous in consulting the original sources,

and examining the plants themselves.

MATURA'NTIA. (Maturans; from mature, to ripen.) Medicines which promote the suppuration of

MATURATION. (Maturatio; from maturo, to make ripe.) A term in surgery, signifying that process which succeeds inflammation, by which pus is collected in an abscess.

MAUDLIN. See Achillea ageratum.

MAUDIAN. See Achillea ageratum.

MAURICEAU, FRANCIS, was born at Paris, where he studied surgery with great industry for many years, especially at the Håtel-Dieu. He had acquired so much experience in midwifery, before he commenced public practice, that he rose admost at once to the head of his profession. His reputation was farther increased by his writings, and naintained by his prudent conduct during a series of years, after which he retired into the country, and died in 1709. He published several works, relating to the particular branch of the art which he practised, containing a great store of useful facts, though not well arranged, nor free from the false reasoning prevalent in his time. soning prevalent in his time.

Mauro-marson. See Marrubium. Maw worm. See Ascaris. MAXI'LLA. (From nassaw, to ch (From nascaw, to chew.) The jaw, both upper and lower.

both upper and lower.

MaxILLARE INFERRICS OS. MaxIlla inferior. Mandibata: The maxilla inferior, or lower jaw, which, in its figure, may be compared to a horse-shoe, is at first composed of two distinct bones; but these, soon after birth, unite together at the middle of the chin, so as to form only one bone. The superior edge of this bone has, like the upper jaw, a process, called the adveolar process. This, as well as that of the upper jaw, to which it is in other respects a good deal similar, is like-wise furnished with cavities for the reception of the teeth. The posterior part of the bone, on each side, rises perpendicularly into two processes, one of which is called the coronoid, and the other the condyloid pro-

The first of these is the highest: it is thin and pointed; and the temporal muscle, which is attached to it, serves to elevate the jaw. The condyloid process is narrower, thicker, and shorter than the other, terminating in an oblong, rounded head, which is formed for a moveable articulation with the cranium, and is received into the forepart of the fossa described in the temporal bone. In this joint there is a moveable cartilage, which, being more closely connected to the condyle than to the cavity, may be considered as belonging to the former. This moveable cartilage is connected with both the articulating surface of the temporal bone and the condyle of the jaw, by distinct ligaments arising from its edges all round. These attachments of the cartilage are strengthened, and the whole articulation secured, by an external ligament, which is com-mon to both, and which is fixed to the temporal bone, mon to both, and which is fixed to the temporal bone, and to the neck of the condyle. On the inner surface of the ligament, which attaches the cartilage to the temporal bone, and backwards in the cavity, is placed what is commonly called the gland of the joint; at least the ligament is there found to be much more vascular than at any other part. At the bottom of each coronoid process, on its inner part, is a foramen, or canal, which extends under the roots of all the teeth, and terminates at the outer surface of the bone near the chin. Each of these foramina affords a passage to an artery, vein, and nerve, which send off branches to the several teeth.

This bone is capable of a great many motions. The condyles, by sliding from the cavity towards the emicondyles, by sliding from the cavity towards the emi-nences on each side, bring the jaw horizontally for-wards, as in the action of biting; or the condyles only may be brought forwards, while the rest of the jaw is titled backwards, as is the case when the mouth is open. The condyles may also side alternately back-wards and forwards from the cavity to the eminence, and vice versa; so that while one condyle advances, the other moves backwards, turning the body of jaw from side to side, as in grinding the teeth. jaw from side to side, as in grinding the teeth. The great use of the cartilages seems to be that of securing the articulation, by adapting themselves to the different inequalities in these several motions of the jaw, and to prevent any injuries from friction. This last circumstance is of great importance where there is so, much motion, and, accordingly, this cartilage is found in the different tribes of carnivorous animals, where there is no eminence and cavity, nor other apparatus for

The alveolar processes are formed of an external and internal plate, united together by thin bony partijaw, into as many sockets as there are teeth. But, at the posterior part, where the teeth have more than-one root, each root has a distinct cell. These processes in both jaws, begin to be formed with the teeth, accompany them in their growth, and disappear when the teeth fall. So that the loss of the one seems constantly to be attended with the loss of the other.

MAXILLARE SUPERIUS OS. Maxilla superior. superior maxillary bones constitute the most considerable portion of the upper jaw, are two in number, and generally remain distinct through life. Their figure is exceedingly irregular, and not easily to be described. On each of these bones are observed several eminences. One of these is at the upper and forepart of the bone, and, from its making part of the nose, is called the masal process. Internally, in the inferior portion of this process, is a fossa, which, with the os unguis, forms a passage for the lachrymal duct. Into this nasal process, likewise, is inserted the short round fendon of the musculus arbicularis palpebrarum. Backwards and outwards, from the root of the masal process, the bone helps to form the lower side of the orbit, and this part is therefore called the orbitar process. Behind this orbitar process, the bone forms a considerable tuberosity, and, at the upper part of this tuberosity, is a channel, which is almost a complete hele. In this channel passes a branch of the fifth pair of nerves, which, together with a small artery, is transmitted to the face through the external orbitar foramen, which opens immediately under the orbit. Where the bone on each side is joined to the os male, and helps to form the checks, is observed what is called the malar pro-cess. The lower and anterior parts of the bone make a kind of circular sweep, in which are the alveoli, or sockets for the teeth; this is called the alveolar process. This alveolar process has posteriorly a considerable tuberosity on its internal surface. Above this alveolar process, and just behind the fore-teeth, is an irregular hole, called the foramen incisioum, which, separating into two, and sometimes more holes, server to transmit small arteries and veins, and a minute branch of the fifth pair of nerves to the nostrils. There are two horizontal lamelle behind the alveolar process, which, uniting together, form part of the roof of the mouth, and divide it from the nose. This par-tition, being seated somewhat higher than the lower edge of the alveolar process, gives the roof of the mouth a considerable hollowness. Where the ossa maxillaria edge of the alveolar process, gives the root of the mode a considerable hollowness. Where the ossamaxillaria are united to each other, they project somewhat forwards, leaving between them a furrow, which receives the inferior portion of the septum nasi. Each of these bones is hollow, and forms a considerable sinus under its orbitar part. This sinus, which is usually, though improperly, called antrum Highmorianum, is lined with improperly, called antrum Highmorianum, is lined with the pituitory membrane. It answers the same purposes as the other sinuses of the nose, and communicates with the nostrils by an opening, which appears to be a large one in the skeleton, but which, in the recent subject, is much smaller. In the factus, instead of these sinuses, an oblong depression only is observed at each side of the nostrils, nor is the tuberosity of the alvendar process then formed. On the side of the palate, in young subjects, a kind of fissure may be noticed, which seems to separate the normion of the house which are seems to separate the portion of the bone which contains the dentes incisores from that which contains the dentes canini. This fissure is sometimes apparent till the sixth year, but after that period it in general wholly disappears.

The ossa maxillaria not only serve to form the checks, but likewise the palate, nose, and orbits; and, besides their union with each other, they are connected with the greatest part of the bones of the face and cranium, viz. with the ossa nasi, ossa malarum, ossa unguis, ossa palati, os frontis, os sphenoides, and os ethmoides.
MAXILLARIS. (From maxilla; the jaw.) Max-

illary: appertaining to the jaw.

MAXILLARY ARTERY. Arteria maxillaris. A branch of the external carotid. The external maxillary is the fourth branch of the carotid; it proceeds anteriorly, and gives off the facial or mental, the coronary of the lips, and the angular artery. The internal maxillary is the next branch of the carotid; it gives off the spheno-paxillary the interior alwester a place of the carotid; it gives off the spheno-paxillary the interior alwester and the enhance arterior. maxillary, the inferior alveolar, and the spinous artery.

MAYILLARY GLAND. Glandala maxillaris. The gland so called is conglomerate, and situated under the angles of the lower jaw. The excretory ducts of these glands are called Warthouian, after their discoverer.

guanos are caused wy arthousian, anter their discoverer.

MAXILLARY NERVE. Nervous mazzillaris. The superior and inferior maxillary nerves are branches of
the fifth pair, or trigemini. The former is divided into
the sphenopalatine, posterior alveolar, and the infraorbital nerve. The latter is divided into two branches, the internal lingual, and one, more properly, called the

the internal lingual, and one, more properly, called the inferior maxillary.

[May-apple. See Podophyllum peltatum. A.]

May-lity. See Convallaria majalis.

May-lity. See Convallaria majalis.

MAYERNE, Sir Theodore Turquet de, Baron D'Aubonne, was born at Geneva in 1573, and gradu ated at Montpelier. He then went to Paris, and, by the influence of Riverius, was appointed in 1600 to attend the Duke de Rohan, in his embassy to the diet at Spire; and also one of the physicians in ordinary to Henry IV. On his return, he settled in Paris as physician, and gave lectures in anatomy and pharmacy, la cian, and gave lectures in anatomy and pharmacy, in which be strongly recommended various chemical remedies: this drew on him the ill-will of the faculty, and he was anonymously attacked as an enemy to Hippocrates and Galen; whence in his "Apologia," he cleared himself from this imputation, making also some severe strictures on his opponents. They consequently issued a decree against consulting with him, but the esteem of the king supported him against this persecution, and he would have been appointed first physicution, and he would have been appointed first physician, had he not refused to embrace the Catholic religion. After the assassination of Henry IV. in 1610, he received an invitation from James I. of England, to whom he had been introduced three years before: he accepted the office of his first physician, and passed the remainder of his life in this country. He was admitted to the degree of doctor in both universities, and into the College of Physicians. and mot with were into the College of Physicians, and met with very

general respect. He incurred some obloquy, indeed, on the death of the Prince of Waies, having differed in opinion from the other physicians, but his conduct obtained the written approbation of the king and council. He was knighted in 1624, and honoured with the appointment of physician to the two succeeding monarcles; and accumulated a large fortune by his extensive practice. He died in 1655, and bequeathed his library to the College of Physicians. Several papers, written by him, were published after his death; among which are the cases of many of his disturbuished his literature of the several papers, which are the cases of many of his disturbuished. narchs; and accommated a large fortune by nis extensive practice. He died in 1655, and bequeathed his library to the College of Physicians. Several papers, written by him, were published after his death: among which are the cases of many of his distinguished patients, well drawn up.

MAYOW, John, was born in Cornwall in 1645. He

MAYOW, John, was born in Cornwall in 1643. He studied at Oxford, and took a degree in civil law, but afterward changed to medicine, which he practised chiefly at Bath; but he died in London at the age of 34. These are the only records of the life of a man, who went before his age in his views of chemical physiology, and anticipated, though obscurely, some of the most remetable discoveries in the control of t siology, and anticipated, though obscurety, some of the most remarkable discoveries in pneumatic ottenistry, which have since been made. He published at Oxford in 1669 two tracts, one on Respiration, the other on Rickets; which were reprinted live years after with three additional discertations, one on the Respiration of the Fotus in Utero et Ovo, another on Muscular Motion and the Animal Spirits, and the remaining one on Saltpeter and the Nitro-agond Spirit. On this latter his claim above-mentioned chiefly rests, the existence of the animal agond property of the state o of the intro-acrial spirit being proved by many ingeni-ous experiments, as a constituent of air, and of nitre, the food of life and dame, agreeing with the oxygen of modern chemists. Much vague speculation, indeed, occurs in the work: but he clearly maintains that this spirit is absorbed by the blood in the lungs, and proves the source of the animal heat, as also of the nervous energy and of muscular motion. He likewise antici-pated the mode of operating with aerial fluids in vessels inverted over water, and transferring them from one to another

Mays, Indian. See Zea mays.

MEAD. 1. The name of a physician, Dr. Richard, born near London in 1673. After studying some time born near London in 1973. After studying some unie at Leyden, and in different parts of Italy, he graduated at Padua in 1695. Then returning to his native country, he settled in practice, and met with considerable sur-cess. His first publication, "A Mechanical Account of Poisons," appeared in 1702, and displayed much ingenuity; though he afterward candidly retracted some of his opinions, as inadequate to explain the functions of a living body. He was soon after elected a member of the Royal Society, and in the following year physician to St. Thomas's Hospital. In 1704, he published a treatise, maintaining the influence of the sun and moon on the human body, arguing from the Newtonian theory of the tides, and the changes effected by those bodies in the atmosphere. In 1707, he received a diploma from Oxford, and about four years after he was ap-pointed to read the anatomical lectures at Surgeons' Hall, which he continued for some time with great Hall, which he continued for some time with great applause. In 1714, on the death of his patron Dr. Rad-cliffe, he took his house, and being them a fellow of the College of Physicians, and having been called into consultation, in the last tilness of Queen Anne, when he displayed superior judement, he seems to have been regarded among the first of the profession, and soon after, from his extensive engagements, resigned his office at St. Thomas's Hospital. The plague raging at Magnetikes in 1719, he was officially consulted on the Marseilles in 1719, he was officially consulted on the means of prevention, which led to a publication by him, means of prevention, which led to a publication by him, in the following year, decidedly maintaining its infectious nature, which had been questioned in France, and recommending suitable precautions: this work passed rapidly through many editions. In 1721, he superincended the experiment of innoculating the small-pox in the persons of some criminals; and his report being formulating the small procausal the small procausal the small procausal. favourable, the practice was rapidly diffused. soon after engaged in a controversy with Dr. Middle-ton, concerning the condition of physicians among the Romans, which was, however, carried on in a manner honourable to both parties. About the same period Dr. Freind having been committed to the Tower for his political sentiments, Dr. Mead obtained his liberation pontical sentiments, Dr. Mead columned in siliceration in a spirited manner, and presented him a considerable sum, received from his patients during his imprisonment. In 1727, he was appointed physician in ordinary to George II, and his professional occupations became so extensive, that he had no leisure for writing. It was

remarks on the diseases montoned in the Scripture. His last work was a summary of his experience, entitled "Monita et Pracepta Medica," in 1751; it was frequently reprinted, and translated into English. His life terminated in 1754; and a monument was erected to him in Westminster Abbey. He distinguished himself, not only in his profession, but he was the greatest profession, but he was the greatest profession, but he was the greatest manner. patron of science and polite literature of histime; and he made an ample collection of scarce and valuable books, manuscripts, and literary curiosities; to which all respectable persons had free access

2. An old English liquor made from the honey-combs, from which honey has been drained out by boiling in water, and then fermenting. This is often confounded

with metheglin.

Meadow crowfoot. See Ranunculus acris. Meadow, queen of the. See Spiraa ulmaria. Meadow saffron. See Colchicum.

Meadow saxifrage. See Peucedanum silaus. Madow sweet. See Spiraa ulmaria. Meadow thistle, round leaved. See Cnicus ole-

Taceus.

MEASLES. See Rubcola.

MEASURE. The English measures of capacity, are according to the following table:

One gallon, wine measure, four quarts, is equal to - -

- two pints. - 28.875 cubic inches. One quart, -One pint, The pint is subdivided by chemists and apothecaries

MEA'TUS. An opening which leads to a canal or

MEATUS AUDITORIUS EXTERNUS. The external passage of the ear is lined with the common integuments, under which are a number of glands, which secrete the wax. The use of this duct is to admit the sound

the wax. The use of this statics so admit the sound to the tympanum, which is at its extremity.

MEATUS AUDITORIUS INTERNUS. The internal auditory passage is a small bony canal, beginning internally by a longitudinal orifice at the posterior surface of the petrous portion of the temporal bone, running towards the vestibulum and cochlea, and there being divided into two less cavities by an eminence. superior and smaller of these is the orifice of the aqueduct of Fallopius, which receives the portio dura of the auditory nerve: the other inferior and larger cavity is perforated by many small holes, through which the portio mollis of the auditory nerve passes into the labyrinth.

MEATUS CÆCUS. A passage in the throat to the

MEATUS CECUS. A passage in the throat to the ear, called Eustachian tube.

MEATUS CUTICULARES. The pores of the skin.

MEATUS CYSTICUS. The gall-duct.

MEATUS URINARIUS. In women, this is situated in the vagina, immediately below the symphisis of the pubes, and behind the nymphæ. In men, it is at the end of the glans penis.

nd of the glass penus.

Mecca balson. See Amyris gileadensis.

MECHOACAN. See Convolvulus mechoacanna.

MECHOACANNA. (From Mechoacan, a province in Mexico, whence it is brought.) See Convolvulus mechoacanna

choacanna.

MECHOACANNA NIGRA. See Convolvulus jalapa.

MECHOACANNA NIGRA. See Convolvulus jalapa.

MECON. (From pyroc, bulk: so named from the largeness of its head.) The papaver, or poppy.

MECONIC ACID. (Acidum meconicum; so called from pyrocuped.)

This acid is a constituent of opium. It was discovered by Settuerner, who procured it in the following way: After precipitating the morphia, from a solution of opium, by annonia, he added to the residual fluid a solution of the muriate of barytes. A precipitate is in this way formed, which is supposed to be a quadruple compound of barytes, morphia, extract, and the meconic acid. The extract is removed by alkohol, and the barytes by sulphuric acid; when the meconic acid is left, merely in combination with a portion of the is left, mercly in combination with a portion of the

morphia; and from this it is purified by successive solutions and evaporations. The acid, when sublimed, forms long colourless needles; it has a strong affinity for the oxide of iron, so as to take it from the muriatic for the coale of iron, so as to take it from the muriatic solution, and form with it a cherry-red precipitate. It forms a crystallizable salt with line, which is not de-composed by sulphura acid; and what is curious, it seems to possess no particular power over the human body, when received into the stomach. The essential of opium, obtained in Derosne's original experiments, was probably the meconiate of morphia.

Robiquet has made a useful modification of the process for extracting meconic acid. He treats the opium with magnesia, to separate the morphia, while meconiate of magnesia is also formed. The magnesia is removed by adding muriate of barytes, and the barytes is afterward separated by dilute sulphunic acid. A larger proportion of meconic acid is thus obtained.

(From μηκων, the poppy: so called because its juice is soportierous, like the poppy.) The

MECO'NIUM. (From μηκων, the poppy.) 1. The inspissated juice of the poppy. Opium.
2. The green excrementitious substance that is found

in the large intestmes of the fœtus.

MEDIAN. Medianus. This term is applied to

vessels, &c. from their situation between others. MEDIAN NERVE. The second branch of the brachial

MEDIAN VEIN. The situation of the veins of the arms is extremely different in different individuals.
When a branch proceeds near the bend of the arm, inwardly from the basilic vein, it is termed the basilic median: and when a vein is given off from the cephahe in the like manner, it is termed the cephalic median. When these two veins are present, they mostly unite just below the bend of the arm, and the common trunk

proceeds to the cephalic vein.

MEDIA'SUM. The Mediastinum.

MEDIASTINUM. (Quasi in medio stans, as being in the middle.) The membraneous septum, formed by the duplicature of the pleura, that divides the cavity of the chest into two parts. It is divided into an anterior and posterior portion.

MEDIASTINUM CEREBRI. The falciform process of

the dura mater.

ME'DICA. (Medicus; from medico, to heal.) 1.

Belonging to medicine.

Belonging to medicine.

2. (From Media, its native soil.) A sort of trefoil.

MEDICA'GO. (So called by Tournetorte; from medica, which is indeed the proper name of the plant—unburs, of Bioscorides.) The name of a genus of plants in the Linnwan system. Class, Diadelphia; Order, Decandria. The herb trefoil.

rder, Decandria. The herb trefoil.
MEDICAMENTA RIA. Pharmacy, or the art of

making and preparing medicines.

MEDICAME N'TUM. (From medico, to heal.) A

MEDICA'STER. A pretender to the knowledge of medicine: the same as quack.

MEDICI'NA. (From medico, to heal.) Medicine.

1. The medical art: applied to the profession generally.

2 Any substance that is exhibited with a view to cure or allay the violence of a disease. It is also very frequently made use of to express the healing art, when it comprehends anatomy, physiology, and pathology.

MEDICINA DIÆTETICA. That department of medicine which regards the regulation of regimen, or the

non-naturals. MEDICINA DIASOSTICA. That part of medicine which

preserves health. MEDICINA GYMNASTICA. That part of medicine

which relates to exercise. MEDICINA HERMETICA. The application of chemi-

cal remedies. MEDICINA PROPHYLACTICA That part of medicine

which relates to preservation of health. MEDICINA TRISTITIÆ. Common saffron.

(Medicinalis; from medicina.) MEDICINAL. Medicinal, having a power to restore health, or remove disease.

MEDICINAL DAYS. Such days were so called by some writers, wherein the crisis or change is expected, so as to forbid the use of medicines, in order to wait nature's effort, and require all the assistance of art to

but it is most properly used for those days wherein purging, or any other evacuation, is most conveniently complied with.

Are those wherein it is sup-MEDICINAL HOURS. posed that medicines may be taken to the greatest advantage, commonly reckoned in the morning fasting, about an hour before dinner, about four hours after dinner, and at going to bed; but in acute cases, the times are to be governed by the symptoms and aggra vation of the distemper.

MEDINA. A species of ulcer, mentioned by Para-

MEDINE'NSIS VENA. (Medinensis; so called because it is frequent at Medina, and improperly called because it is requent as a new median sometimes nervus mediannis, and no one knows why.) Dracunculus; Gordus mediansis, of Linneus. The muscular hair worm. A very singular animal, which, in some countries, inhabits the cellular membrane between the skin and See Draeunculus.

MEDITU'LLIUM. (From medius, the middle.)

See Diploë.

ME'DIUS VENTER. The middle venter, the thorax, or chest.

See Mespilus. MEDLAR.

MEDU'LLA. (Quasi in medio ossis.) 1. The mar-

2. The pith or pulp of vegetables. beart of a vegetable within the wood. "This," save Dr. E. Smith, "in parts most endowed with life, roots and young growing stems or branches, is a tolerably firm juicy substance, of a uniform texture, and commonly a pale green or yellowish colour. In many annual stems the petal, abundant and very juicy while they are growing, becomes little more than a web, lining the hollow of the complete stem; as in some thistles. Concerning the nature and functions of this part various opinions have been held. Du Hamel considered it as merely cellular substance, connected with what is diffused through the whole plant, combining its various parts, but not performing any remarkable office in the vegetable economy. Lineaus, on the contrary, thought it the seat of life, and source of vegetation; that its vigour was the main cause of the propulsion of the branches, and that the seeds were more especially formed from it. This latter hypothesis is not better founded than his idea of the pith adding new layers to the wood. In fact, the pith is soon obliterated in the trunk of many trees; which, nevertheless, keep increasing for a long series of years, by layers of wood, added every year from the bark, even after the heart of the tree is become hollow from decay.

Some considerations have led Sir James Smith to hold a medium opinion between these two extremes. There is in certain respects, he observes, an analogy There is in certain respects to the control of between the medulla of plants and the nervous system of animals. It is no less assiduously protected than the spinal marrow or principal nerve. It is branched the spinal marrow or principal nerve. It is branched off and diffused through the plant, as nerves are through the animal; hence it is not absurd to presume that it may, in like manner, give life and vigour to the whole, though by no means any more than nerves, the organ or source of nourishment.

It is certainly most vigorous and abundant in young and growing branches, and must be supposed to be sub-

servient, in some way or other, to their increase.

Mr. Lindsay, of Jamaica, thought he demonstrated the medulla in the leafstalk of the Mimosa pudicu, or sensitive plant.

Knight supposes the medulla may be a reservoir of moisture, to supply the leaves whenever an excess of perspiration renders such assistance necessary, but it should be recollected that all the moisture in the medulla of a whole plant is, in some cases, too little to supply one hour's perspiration of a single leaf, and it is not found that the moisture of the medulla varies, let the leaves be ever so flaccid

3. The white substance of the brain is called medulla, or the medullary part, to distinguish it from the cortical.

MEDULLA CASSIÆ. The pulp of the cassiæ fistularis. See Cassia fistularis.

Cerebrum elongatum. The MEDULLA OBLONGATA. medullary substance that lies within the cramum, upon the basillary process of the occipital bone. It is formed help forward, or prepare the humours for such a crisis: by the connexion of the crura cerebri and crura cere-

belli, and terminates in the spinal marrow. It has several eminences, viz. pons varolii, corpora pyrami-

MEDULLA SPINALIS. Cerebrum clongatum . Fon. The spinal marrow. A continuation of the medulla oblonspinal marrow. A continuation of the theorem of one meaning gata, which descends into the specus vertebrals from the foramen magnum occipitale, to the third vertebra of the loins, where it terminates in a number of nerves, which, from their resemblance, are called canda equina. The spinal marrow is composed, like the brain, of a cortical and medullary substance; the former is placed internally. It is covered by a continuation of the dura mater, pia mater, and tunica arachnoidea. The use of the spinal marrow is to give off, through the lateral or intervertebral foramina, thirty pairs of nerves, called cervical, dorsal, lumbar, and sacral nerves.

MEDULLARY. (Medullaris; from medulla, mar-

row.) Like unto marrow.

MEDULLARY SUBSTANCE. The white or internal substance of the brain is so called. See Cerebrum. MEDELLIN. The name given by Dr. John to the

porous pith of the sun-flower.

MEERSCHAM. Resseeil of Kirwan. composed of silica, magnesia, lime-water, and carbonic acid, of a yellowish and grayish white colour, and greasy feel, and soft when first dry. It lathers like soap, and is used by the Tartars for washing. In Turkey they make tobacco pipes from meerschaum, dug in Natolia and near Thebes.

MEGALOSPLA'NCHNUS. (From μεγας, great, and σπλαγχνον, a bowel.) Having some of the viscera en-

ME GRIM. ME GRIM. A species of headache; a pain generally affecting one side of the head, towards the eye, or temple, and arising from the state of the stomach.

MEIBOMIUS, HENRY, was born at Lubeck in 1638.
After studying in different universities, he graduated at Angers, and afterward was appointed professor of medicine at Heinstaft, where he continued till his death in 1709. He published several works, and commentaries on those of others. That which chiefly illustrates his name is entitled "De Vasis Palpebrarum novis," printed in 1666. He seems to have contemplated a history of medicine, and published a letter on the sub-ject, which indeed his father had begun; but the difficulties which he met with in investigating the medicine of the Arabians, arrested his progress

MEDIONIUS'S GLANDS. Meibomic glandulæ. The small glands which are situated between the conjunctive nembrane of the eye and the cartilage of the eyelia, first described by Meibomius.

lia, first described by Meibomius.

MEIONITE. Prismatico-pyramidal felspar. This mineral occurs along with ceylanite, and nepheline, in

granular limestone, at Monte Sonna, near Naples.

MEL. Honey. A substance collected by bees from
the nectary of flowers, resembling sugar in its elementary properties. It has a white or yellowish colour, a soft and grained consistence, and a saccharine and aromatic smell. It is supposed to consist of sugar, mucilage, and an acid. Honey is an excellent food, and a softening and slightly aperient remedy: mixed with vinegar, it forms ozymel, and is used in various forms, in medicine and pharmacy. It is particularly recommended to the asthmatic, and those subject to gravel complaints, from its detergent nature. Founded upon the popular opinion of honey, as a pectoral remedy, Dr. Hill's balsam of honey, a quack medicine, was once in demand; but this, besides honey, contained balsam of Tolu, or gum benjamin, in solution.

MEL ACETATUM. See Orymet.

MEL BORACIS. Honey of borax.—Take of borax, powdered, a drachm; clarified honey, an ounce. Mix. This preparation is found very useful in aphthous affections of the fauces.

MEL DESPUMATUM. Clarified honey. Melt honey in a water bath, then remove the scum.

MEL ROSE. Rose honey.—Take of red-rose petals, dried, four ounces; boiling water, three pints; clarified honey, five pounds. Macerate the rose petals in the water for six hours, and strain; then add the honey to the strained liguer, and knowns of a water, but he is the strained liquor, and, by means of a water-bath, boil it down to a proper consistence. An admirable preparation for the base of various gargles and collutories. It may also be employed with advantage, mixed with extract of bark, or other medicines, for children who have a natural disgust to medicines.

MEL SCILLE. See Oxymel scille

From unw, to search.) Me<sup>+</sup>(L<sub>A</sub>.—Trom μσω, to search.) A probe.
MELAENA.—From μελας, blacket.) The black vomit.
The black disease. Meλαεικε πουσος, of the Greeks.
Hippee rates applies this name to two diseases. In the
first, the patient vomits black bile, which is sometimes nust, the patient voims mack one, which is sometimes bloody and sour; sometimes he throws up a thin sa-liva; and at others a green ble, &c. In the second, the patient is as described in the article Morbus niger. Morbus mger

The Malaria which produces intermittent, remittent, and other fevers, occasionally becomes so powerful, or produces such a corrupted, or infected state of the atmosphere, as to induce black voniting, and yellow fevers, as was long since noticed by Hippocrates.

"The morbus regius, or Icterus, of the first section of his Coan Prognostics, is undoubtedly febrile yellowness, and not idiopathic jaundice. The epithet ofus, acute, is repeatedly applied by Hippocrates to denote a febrile jaundice, which soon destroys life, in contradistinction to the other kinds, which are of a more chronic type, and less fatal. The like interpretation is to be put upon the sixty-third aphorism of the third book, which declares a yellowness (extraor) supervening in fevers, on the seventh, ninth, or fourteenth day, to be a good symptom, provided there is no hardness in the region of the liver. In the sixty-second aphorism, he clearly means to be understood in the same manner, when he says that yellowness (ικτεροι again) appearing in fevers before the seventh day, is an unfavourable symptom. A similar meaning most be intended in the ninth section of his book on Crises, where it is laid down as a maxim, that 'm berning fevers, a yellowness (extens) breaking out on the fifth day, and accompanied by hiccough, is a fatal sign.' (Ev rotat

καυσοισιν εαν επις ενηται ικτερος και λυξη πεμπταιω εοντι, θανατῶδες ξποςροφαι λαμβανονται.) Let this sentence be particularly considered. In the whole catalogue of diseases, there is none but that commonly called yellow fever to which this aphorism can properly be applied. And it would be exceedingly difficult, in so few words, to give a more expressive delineation of the disease in question. In the third section of the same book, he declares that yellowness appearing on, or after the seventh day, denotes a criti-cal sweating. In contradistinction to all which is the case mentioned in the forty-second aphorism of the sixth book, in which it is stated, that an indurated liver following a yellowness, is an unfavourable occur-rence, because it is a case of idiopathic jaundice, con-nected with a very morbid condition of that important viscus. Vellowness, as a symptom of fever, is men-tioned in other places. I shall mention but one more, and that hears so direct an application to the subject, that it is impossible to mistake its meaning. It is from his book De Ratione Victus in Morbis acutis. bilious fever, yellowness coming on with shivering before the seventh day, terminates the fever; but if it come on abruptly (or unseasonably) without shivering, it is mortal. (Εν πυρετω χολωδει, προ της εβδομης, ρε 7 οις τος εκτερος επις τουμενος, λυει τον πυρετον; ανει δέ μις ευς ην επις ενηθαι. Εξω των καιρων, όλιθριον.) It will not appear strange that Hippocrates should

have been acquainted with the disease called yellow fever, if we attend to the following account of the Phasians, delivered in his book on air, water, and

situation

"As to the inhabitants of Phasis, their country is "As to the inhabitants of Phasis, their country is marshy, hot, vastery, woody, and subject to many violent showers at all sensons. They also live in the marshes, in houses or hurs, built in the water, of wood and reeds; seldom walk to the city or the market, but pass frein place to place, as they have many canals and ditches, in boats cut out of one piece of timber. The waters they drink are hot and stagnant, corrupted by the sun, and sundied by the rain. The river Phasis. by the sun, and supplied by the rain. The river Phasis itself is the most stagnant of all rivers, and the stream itselt is the most stagmant of all rivers, and the stream the gentlest. The fruits they have there never come to perfection, but are cramped in their growth, and, as it were, effeminated by the vast quantity of water. The air of the country is also thick, and misty from so much water. For these reasons the Phasians differ in their appearance from other people; for they are large and thick to a prodicy, without any sign of joint or vessel. Their colour is a pale yellow like that in a jaundice." Την έε χροινή ωχοην εχουσιν, ωσπερ ὑτο IKTEROV EYOUETOL

Having found these facts in the works of the father

MEL MEL

of physic, I turned over his pages with a view of finding whether he knew any thing of black vomiting. soon found the phrases μελαινα χολη, black bile, μελανα εμετον, black voint, and μελανών εμεζον, the vointing of black matter. In the twelfth section of his prognostics, headirms, that if the matter vointed be of a livid or black colour, it betokens ill. So in the first section of the first book of his Coan Prognostics, he enumerates black vomiting among a number of the most desperate symptoms. And also in the fourth section of the same book, he considers leek-green, livid, and black vomiting, as omens of sad import. (Ει έη ειη το ευμευμενον πρασοειδες, η πηλιον, η μελαν, αν η του ζεων των χοωμα των, νομίζειν χεη πονηρον ειται.) The passage in the eleventh paragraph of the first book of his Predictions indicates strongly the unfavourable issue of a fever after black vomiting. The connexion between black vomiting and death is noticed likewise in the third paragraph of the second section of his Coan Prognostics. same symptom is mentioned in the first paragraph of the first section of the same book. And you will find the like to occur in the fourth paragraph of the third section.

I have confined myself in citing the works of Hippocrates to some of the passages which contain pointed facts and opinions, relative to a yellowness of the skin, and a vomiting of dark or black matter in fevers. My object is, to show that these are by no means new symptoms: that they existed in the days of Artaxerxes certainly among the Greeks, and probably among the Persians; that they had been observed more than 2000 vears ago by one of the most careful of men in the southern parts of Europe; and of course, since they existed so long before the voyage of Columbus, there is no need of resorting to the stale and delusive notion that the fevers with these symptoms are of modern ex-istence, and imported solely from America. Unfor-tunately, fevers with these accompaniments were long. long before, found to prostrate the strength and shorten the life of man. This subject may be further illustrated by recollecting that Hippocrates practised physic, for a considerable portion of his life, in parts of Greece, situated nearly in the same parallel of latitude with those in North America where the yellow fever has exhibited its greatest ravages," and where it has always been a seasonable and local disease and not contagious. Med. Repos. A.]

MELAINA NOSOS. See Melana.

MELALEU'CA. (From μελας, black, and λευκος, white: so named by Linnaus, because the principal, and indeed original, species was called leucadendron, and indeed original, species was caned executerary, and arbor alba; words synonymous with its appellation in the Malay tongue, Cafa-puti, or white tree, but it is not known why the idea of black was associated with white.) The name of a genus of plants in the Linnæan system. Class, Polyandria; Order, Icosandria.

MELALEUCA LEUCADENDRON. The systematic name of the plant which is said to afford the cajeput oil. of the plant which is said to afford the cajeput oil. Oleum vajeputæ; Oleum Wittnebianum; Oleum vajeputæ; Oleum eagleput oil has the appearance of inflammable spirit, is of a green colour, and so completely volatile, that it evaporates entirely, leaving no residuum; its odour is of the camphoraceous kind, with a terebinthinate admixture. Goetz says it is limpid, or rather yellowish. It is a very powerful medicine, and in high esteem in India colour says of the campton of a general remedy in and Germany, in the character of a general remedy in chronic and painful diseases: it is used for the same purposes for which we employ the officinal æthers, to which it seems to have a considerable affinity; the cajeput, however, is more potent and pungent; taken into the stomach, in the dose of five or six drops, it heats and stimulates the whole system, proving, at the same time, a very certain diaphoretic, by which pro-bably the good effects it is said to have in dropsies and intermittent fevers, are to be explained. For its effiintermittent fevers, are to be explained. For its effi-cacy in various convulsive and spasmodic complaints, it is highly esteemed. It has also been used both in-ternally and externally, with much advantage, in se-veral other obstinate disorders: as palsies, hypochon-driacal, and hysterical affections, deathess, defective vision, teatnache, gout, rheumatism, &c. The dose is from two x, or even twelve drops. The tree which affords this oil, by distillation of its leaves, generally was supposed to be the Melaleuca leucadendron of Linnesus with appearance from the specimens of the tree Linnaus, but it appears from the specimens of the tree

producing the true oil, sent home from India, by Christopher Smith, that it is another species, which is there-

topher sunth, that it is another species, when is to be fore named. Metalexac apparati.

MEL.MEMA. (From µclass, black, and aiµa, blood.) A term applied to blood when it is of a morbidly dark colour.

MELANPHY'LLUM. (From μελας, black, and φυλλου, a leaf; so named from the blackness of its leaf.) See Acanthus moltis.
MELANPO'DIUM. (From Melampus, the shepherd who first used it.) Black hellebore. See Hellebore.

borus niger.

MELANAGO GA. (From μελας, black, and αγω, to ex-

MELANCHLO'RUS. Μελαγχλωρος. I. A livid colour

MELANCHLO RUS. Μελαγχλωρος. I. Anvia colour of the skin.

2. The black jaundice.

MELANCHO LIA. (From μελας, black, and χολη, blie; because the ancients supposed that it proceeded from a redundance of black blie.) Metaneholy madness. A disease in the class Neuroses, and order Venice of Cultur characterized by recognosis indesania, of Cullen, characterized by erroneous judgment, but not merely respecting health, from imaginary perceptions, or recollection influencing the conduct and depressing the mind with ill-grounded fears; not com-bined with either pyrexia or comatose affections; often appearing without dyspepsia, yet attended with cosappearing without dyspepsia, yet attenued with Con-tiveness, chiefly in persons of rigid fibres and torpid in-sensibility. See Mania.

MELANITE. A velvet-black coloured mineral in roundish or crystallized grains, found in a rock at

Prascate near Rome

MELANO'MA. (From μελας, black.) Melanosis. A rare disease which is found under the common integuments, and in the viscera, in the form of a tuber-cle, of a dark soot-black colour. MELANO PIPER. (From μελας, black, and πεπερι

pepper.) See Fiper nigrum.

MELANORRHIZON. (From μελας, black, and ριζα, a root.) A species of hellebore with black roots. See

MELANO SIS. See Mclanoma.

MELANTE RIA. (Prom μελας, black: so called because it is used for blacking leather.) Green vitriol, or

sulphate of iron.

MELANTHELE UM. (From μελας, black, and ελαιον, oil.) Oil expressed from the black seeds of the Nigelia sativa.

Mela'nthium. (From μελας, black: so named from its black seed.) The Nigella sativa, or herb fennel

MCLAS. (From μέλας, black.) Vitiligo nigra; Morpho nigra; Lopra maculosa nigra. A disease that appears upon the skin in black or brown spots, which very frequently penetrate deep, even to the bone, and do not give any pain, or uneasiness. It is a disease very frequent in, and endemial to, Arabia, where it is supposed to be produced by a peculiar mi-

MELA'SMA. (Prom μελας, black.) Melasmus. A disease that appears not unfrequently upon the tibia of aged persons, in form of a livid black spot, which, in a day or two, degenerates into a very foul

MELASPE'RMUM. (From μελας, black, and σπερ-

MELASSES. Treacle. The black empyreumatic syrup which exists in raw sugar. MELASSES. ACID. The acid present in melasses, which has been thought a peculiar acid by some; by others, the acetic.

Me'LCA. (From αμελγω, to milk.) Milk. A food

made of acidulated milk.

Me'le. (From μαω, to search.) A probe.

MELEA GRIS. (From Meleager, whose sisters were fabled to have been turned into this bird.) 1.

The guinea fowl.

2. A species of fritillaria: so called because its flowers are spotted like a guinea-fowl.

Melege'ta. Grains of paradise.

Meleguetta. Grains of paradise. See Amomum MELEGUETTA. ranum paradisi

MELET'OS. (From Melos, the island where it is ade.) A species of alum.
MELI' Meht. Honey. See Mel.
MELICAL. See Meliceris.
MELI'CERIS. (From μελι, honey, and κερος, war.)

Meliceria. An encysted tumour, the contents of which resemble honey in consistence and appearance.

MELL'CRATON. (From μελι, honey, and κεραντυμι, honey, honey, honey, and κεραντυμι, honey honey honey honey honey honey.

MELICATION: (From μελι, honey, and κιρατνέμι, to mix.) Wine impregnated with honey.

MELICATION: (From μελι, honey.) A fætid humour, discharged from ulcers attended with a caries

mour, discharged from vicers attenued with a caries of the bone, of the consistence of honey. MELILOT. See Mellotus.

MELILOTUS. (From  $\mu \epsilon \lambda t$ , honey, and  $\lambda \omega \tau \sigma s$ , the lotus: so called from its smell, being like that of homes and the second of the [otus: so camer from its sinet, being into that of foreign next, bee Trifolium melilotus officinalis.

Meline lem. (From μελε, honey, and μηλου, an apple: so named from its sweetness.) Paradise apple.

apple: So father front is sweetness.) Paranise apple, the produce of a dwarf wild apple-tree.

Meli'num. (From μελον, an apple.) Oil made from the flowers, or the fruit of the apple-tree.

MELIPHYTLUM. (From μελι, honey, and φυλλον, a leaf: so called from the sweet smell of its leaf, have a leaf. So cathed from the sweet siner or us lear, or because bees gather honey from it.) See Mel.ssa.

MELL'SSA. (From µkhava, a bue; because bees gather honey from it.) The name of a genus of plants

in the Linnean system. Class, Didynamia; Order, Gymnospermia. Balm.

Malisa Calaminta. The systematic name of the common calamint. Calamintha; Calamintha valgaris; Calamintha officinarum; Melissa—pedun-culis azillaribas, dichomis, longitudine foliorum, of Linnaus. This plant smells strongly like wild mint, though more agreeable; and is often used by the common people, in form of tea, against weakness of the stomach, flatulent colic, uterine obstructions, hysteria, &c.

MELISSA CITRINA. See Melissa officinalis.

MELISSA GRANDIFLORA. The systematic name of the mountain calamint. Calamintha magno flore; the mountain calamint. Calamintha magno flore; Calamintha montana. This plant has a moderately pungent taste, and a more agreeable aromatic smell than the common calamint, and appears to be more

eligible as a stomachic.

Melissa Nepeta. Field calamint. Spotted calamint Calamintha anglica; Calamintha pulcgir odore; Nepeta agrestis. It was formerly used as an aro

matic

MELISSA OFFICINALIS. The systematic name of balm. Citrago; Citraria: Melissophyllum; Mellitis; Cedronella; Appastram; Melessa cetrena; Erotion. A native of the southern parts of Europe, but very common in our gardens. In its recent state, it has a roughish aromatic taste, and a pleasant smell of the lemon kind. It was formerly much esteemed in nervous diseases, and very generally recommended in nervous diseases, and very generally recommended in melancholic and hypochondriacal affectious; but, in

median practice, it is only couployed when prepared as tea, as a grateful diluent drink in fevers, &c.

Melissa Tercica. See Dracocephalum molidavica.

Melissophy'llum. (From μελισα, baum, and φυλλου, a leaf.) A species of inclittis, with leaves resembling baum. See Melittis melissophyllum.

Melitri'smus. (From μελι, honey.) A linctus, prepared with honey.

MELITI SMUS. (From μελιτ 7α, which, in the Attic MELITTIS. (From μελιτ 7α, which, in the Attic dialect, is the name of a bee; so that this word is, in fact, equivalent to Melissa, and was adopted by Linnaeus, therefore, for the basiard balm.) The name of a renus of plants. Class, Dedynamica; Order, Gynthalm.

MELITIS MELISSOPHYLLUM. The systematic name of the mountain balm, or nettle. Sophyllum. This elegant plant is seldom used in the present day; MELITTIS MELISSOPHYLLUM. it is said to be of service in uterine obstructions and calculous diseases.

Calculous diseases. MeLITTO'MA. (From μελι, honey.) A confection made with honey. Honey-dew. MELIZO'MUM. (From μελι, honey, and ζωμος, broth.) Honey-broth. A drink prepared with honey, like

MELLA'GO. (From mel, honey.) Any medicine which has the consistence and sweetness of honey. MELLATE. A compound of mellitic acid, with salifiable bases.

MELLICERIS. See Meliceris.
MELLICERIS. See Meliceris.
MELLIOTUS. See Melilatus.
MELLI'NA. (From mel, honey.) Mead. A sweet
drink prepared with honey.
MELLI'TA. (From mel, honey.) Preparations of

MELLITE. Mellilite. Honey-stone. A mineral a honey-yellow colour, slightly resino-electric ous humour of the eye.

ringin MELLITIC ACID. (Acidum melliticum; from mellitics, the honey stone, from which it is obtained.) "Klaproth discovered in the mellitics, or honey stone, what he conceives to be a peculiar acid of the vegetable kind, combined with alumina. This acid is easily obtained by reducing the stone to powder, and boiling it in about seventy times its weight of water; when the acid will dissulve, and may be segmented from the the acid will dissolve, and may be separated from the alumina by filtration. By evaporating the solution, it may be obtained in the form of crystals. The follow

ing are its characters :

It crystallizes in fine needles or globules by the union of these, or small prisms. Its taste is at first a sweetish sour, which leaves a bitterness behind. On a plate isn soir, which leaves a bitterness behind. On a plate of hot metal it is readily decomposed, and dissipated in copious gray fumes, which affect not the smell, leaving behind a small quantity of ashes, that do not change either red or blue tincture of litmus. Neutralized by potassa it crystallizes in groups of long prisms: by soda, in cubes, or triangular laminas, sometimes in groups. Sometimes in groups. prisms: by soda, in cines, or triangular admine, some-times in groups, sometimes single; and by animonia, in beautiful prisms with six planes, which soon lose their transparency, and acquire a silver-white hue. If the mellitic acid be dissolved in lime-water, and a solution of calcined strontian or barytes be dropped into it, a white precipitate is thrown down, which is redissolved on adding muriatic acid. With a solution of acetate of barytes, it produces likewise a white precipitate, which nitric acid redissolves. With solution pitate, which mitric acid reassories. With solution of muriate of barytes, it produces no precipitate, or even cloud; but, after standing some time, fine transparent needly crystals are deposited. The mellitic acid produces no change in a solution of nitrate of silver. From a solution of nitrate of mercury, either hot or cold, it throws down a copious white precipitate, which an addition of nitric acid immediately redissolves. With nitrate of iron, it gives an abundant precipitate of a dun-yellow colour, which may be redissolved by muriatic acid. With a solution of acctate of lead, it produces an abundant precipitate, immediately redissolved on adding nitric acid. With acetate of copper, it gives a grayish-green precipitate; but it does not affect a solution of muriate of copper, Lime-water, precipitated by it, is immediately redissolved on adding nitric acid."— Ure's Chem. Duct.

ME'LO. See Cucumis melo.

MELOOA'RPUS. (From μηλον, an apple, and καρπος, fruit; from its resemblance to an apple.) The fruit of the aristolochia, or its roots.

ME'LOE. An insect called the blossom-eater, genus of the order Coleoptera. Some of its spec were formerly used medicinally,

MELOE VESICATORIUS. See Canthonia.

Some of its species

[ MELOE VITTATA, or potato-fly. See Cantharides vittata. A.]
MELON. See Cucumis melo.

MELON. See Cucumis melo.

Miton, musik. See Cucumis melo.

Melon, water. See Cucumist a citrullus.

Me'lon. Mnhov. A disorder of the eye, in which
the ball of the eye is pressed forward from the socket.

MELO'NGENA. Mala insana. Solanum pomiferum. Mad-apple. The Spaniards and Italians eat it
in sauce and in sweetmeats. The taste somewhat
resembles citron. See Solanum melongena.

MELO'SIS. Mnhoage. A term which frequently occurs in Hippocrates, De Capitis Vulneribus, for that
search into wounds which is made by surgeons with
the probe. the probe.

Melo'tis. Mηλωσις. A little probe, and that particular instrument contrived to search or cleanse the ear with, commonly called Auriscalpium.
MELO'THRIA. (A name borrowed by Linneus in his Hortus Cliffortianus; from the μηλωζρου, of Dioscorides.) The name of a genus of plants. Class,

in his Hortus Chifortranus; from the μηλωύρον, or Dioscorides.) The name of a genus of plants. Class, Triandria; Order, Monogymia.

MELOTHRIA PENDULA. The systematic name of the small creeping queumber plant. The American bryony. The inhabitants of the West Indies pickle the berries of this plant, and use them as we do capers.

MELYSSOPHYLLUM. (From μελισσα, balm, and φυλ-ον, a leaf.) See Melittis.

λου, a leaf.) See Melittis.

MEMBRANA. See Membrane.

MEMBRANA HYALOIDEA. Membrana arachnoidea.
The transparent membrane which includes the vitre-

MEMBRANA PUPILLARIS. Velum pupillæ. A very delicate membrane of a thin, and vascular texture, and an ash colour, arising from the internal margin of the iris, and totally covering the pupil in the fætus before

sixth month

MEMBRANA RUYSCHIANA. The celebrated anatomist Ruysch discovered that the choroid membrane of the eye was composed of two laminæ. He gave the name of membrana ruyschiana to the internal lamina, leaving the old name of choroides to the external

MEMBRANA SCHNEIDERIANA. The very vascular pituitary membrane which lines the nose and its cavities; secretes the mucus of that cavity, and is the bed

of the olfactory nerves.

MEMBRANA TYMPANI. The membrane covering the cavity of the drum of the ear, and separating it from the meatus auditorius externus. It is of an oval form, convex below the middle, towards the hollow of the tympanum, and concave towards the meatus auditorios, and convex above the meatus, and concave towards the hellow of the tympanum. According to the observations of anatomists, it consists of six laminæ; the first and most external, is a production of the epidermis; the second is a production of the skm lining the auditory passage; the third is cellular membrane, in which the vessels form an elegant net-work; the fourth is shining, thin, and transparent, arising from the periosteum of the meatus; the lifth is cellular mem-brane, with a plexus of vessels like the third; and the sixth lamina, which is the innermost, comes from the periosteum of the cavity of the tympanum. This membrane, thus composed of several laminar, has lately been discovered to possess muscular fibres.

MEMBRANACEUS. Membranaceous: Applied to

leaves, pods, &c. of a thin and pliable texture, as the leaf of the Magnolia purpurea, and several capsules,

ligaments, &cc

MEMBRANOLO'GIA. (From membrana, a membrane, and λογος, a discourse.) Membranology. That which relates to the common integuments and mem-

MEMBRANE. Membrana. 1. In anatomy. thin expanded substance, composed of cellular texture, the elastic fibres of which are so arranged and woven together; as to allow of great pliability. The membranes of the body are various, as the skin, peritoneum,

branes of the body are various, as the Skin, peritoneum, pleura, dura mater, &c. &c. &c. 2. In botany. See Testa.

MEMBRANO'SUS. See Tensor vagina femoris.
MEMBRANO'SUS. See Tensor vagina femoris.
MEMORY. Memoria. The brain is not only capable of perceiving sensations, but it possesses the faculty. of reproducing those it has already perceived. This cerebral action is called remembrance, when the ideas are reproduced which have not been long received: it are reproduced which have lot been long received. It is called recollection when the ideas are obtain older date. An old man who recalls the events of his youth, has recollection; he who recalls the sensations which he had last year, has memory, or remembrance. Reminiscence is an idea produced which one does not remember having had before.

In childhood and youth, memory is very vivid as well as sensibility: it is therefore at this age, that the greatest variety of knowledge is acquired, particularly that sort which does not require much reflection; such as history, languages, the descriptive science, &c. Memory afterward weakens along with age: in adult age it diminishes; in old age it fails almost completely. There are, however, individuals who preserve their memory to a very advanced age; but if this does not depend on great exercise, as happens with actors, it exists often only to the detriment of the other intellectual faculties.

The sensations are recalled with ease in proportion as they are vivid. The remembrance of internal sensations is almost always confused; certain diseases of

Sations is aimost always comised; certain decisions the brain destroy the memory entirely.

MENACHANITE. A mineral of a grayish black colour, found accompanied with fine quartz sand in the bed of a rivulet, which enters the valley of Manac-

the beat of a fractical can, in Cornwidt.

MENAGOGUE. See Emmenagogue.

MENDO'SUS. (From mendaz, counterfeit.) This mendous and sense as spurious, term is used, by some, in the same sense as spurious or illegitimate; Mendose coste false or spurious ribs;

Mendosa sutura, the squamous suture, or bastard suture of the skull.

MENILITE. A sub-species of indivisible quartz. is of two kinds, the brown and the gray.

Menting physics. (From μηνι) ξ, a membrane, and φυλασσω, to guard ) An instrument to guard the membranes of the brain, while the bone is cut, or

rasped, after the operation of the trepan.

ME'NINX. (From \$\mu\epsilon\), to remain.) Before the time of Galeu, menius was the common term of all the membranes of the body, afterward it was appropriated to those of the brain. See Dura mater, and Pia

MENISPERMIC ACID. (Acidum menispermicum; from monispermum, the name of the plant in the berries of which it exists.) The seeds of Menispermum ries of which it exists.) The seeds of Menispermum cocculus being macerated for 24 hours in 5 times their weight of water, first cold, and then boiling hot, yield weight of whee, inst cold, and then boiling hot, yield an intuision, from which solution of subacetate of lead throws down a menispermate of lead. This is to be washed and drained, diffused through water, and de-composed by a current of sulphuretted hydrogen gas. The liquid, thus freed from lead, is to be deprived of sulphuretted hydrogen by heat, and then forms solution suppuretted hydrogen by heat, and then forms solution of menispermic acid. By repeated evaporations and solutions in alkohol, it loses its bitter taste, and becomes a pureracid. It occasions no precipitate with lime-water; with nitrate of barytes it yields a gray precipitate; with nitrate of silver, a deep yellow; and

precipitate; with intrate of surer, a user yearny, and with sulphate of magnesia, a copious precipitate.

MENISPI RM'M. (From payor, the moon, and owneyas, esced, in affusion to the crescent-like form of the seed.) Moon-seed. The name of a genus of plants. Class, Dracea; Order, Dradecondria.

MENISPERATES COCCULUS. The systematic name

of the plant, the berries of which are well known by the name of Cocculus indicus. Indian beries, or Indian cockles; Coccus indicus; Cocculæ officinarium; Cocc orientalis. The berry, the produce of the Menispermum—folus conducts, retusis, mucronatis; caule lacero, of Linneaus, is rugous and kidney-shaped, and contains a white nucleus. It is brought from Malabar and the East Indies. It is poisonous if swallowed, bringing on nausea, fainting, and convulsions. The berries possess an inebriating quality; and are supposed to impart that power to most of the London porter. While green, they are used by the Indians to catch is the green, mey are used by the Indians to catch fish, which they have the power of intoxicating and killing. In the same manner they catch birds, making the berry into a paste, forming it into small seeds, and putting these in places where they frequent. A peculiar acid called assurance is distinct. liar acid called menispermic, is obtained from these

By recent chemical analysis, this seed is found to contain, 1st, about one half of its weight of a concrete fixed oil; 2d, an albuminous vegeto-animal substance; 3d, a peculiar colouring matter; 4th, one-fiftieth of picrotoxia; 5th, one-half its weight of fibrous matter: previous a; sta, one-main is weight of morous matter of bith, bimalate of lime and potassa; 7th, sulphate of potassa; 8th, muriate of potassa; 9th, phosphate of lime; 10th, a littleiron and silica. It is poisonous; and is frequently employed to intoxicate or poison fishes.

is frequently employed to intoxicate or poison lishes. The delectrious ingredient is the Picrotoxia.

The poisonous principle called picrotoxia, is obtained in the following way: "To the filtered decoction of these berries, add acetate of lead, while any precipitate falls. Filter and evaporate the liquid cautiously to the consistence of an extract. Dissolve in alkohol of 0.817, and evaporate the solution to dryness. By repeating the solutions and evaporations, we at last their productions of the production of t obtain a substance equally soluble in water and alkoobtain a substance equaly soluble in water and any ab-hol. The colouring matter may be removed by agi-tating it with a little water. Crystals of pure picrotoxia now fall, which may be washed with a little alkohol. The crystals are four-sided prisms, of a white colour, and intensely bitter taste. They are soluble in 25 times

and mensely inter taste. They are sounded in so times their weight of water, and are not precipitable by any known reagent. Alkohol, sp. gr. 0.810, dissolves one-third of its weight of picrotoxia. Pure sulphuric ether dissolves two fittlis of its weight.

dissolves two-fitths of its weight.

Strong sulphuric acid dissolves it, but not when much diluted. Nitric acid converts it into oxalic acid. It dissolves and neutralizes in acetic acid, and falls when this is saturated with an alkali. It may, therefore be regarded as a vegeto-alkali itself. Aqueous potassa dissolves it, without evolving any smell of ammonia. It acts as an intoxicating polson.

50.

Sulphate of picrotoxia must be formed by dissolving picrotoxia in dilute sulphuric acid, for the strong acid The solution crystallizes on chars and destroys it. The solution crystallizes on cooling. The sulphate of picrotoxia dissolves in 120 times its weight of boiling water. The solution gradually lets fall the salt in fine silky filaments disposed in

any less that the safe of meeting mainents disposed in bundles, and possessed of great beauty. Mitrate of pitrotoxia. Nitric acid, of the specific gravity 1.38, diluted with twice its weight of water, dis-Nitric acid, of the specific solves when assisted by heat, the fourth of its weight of picrotoxia. When this solution is evaporated to one-half, it becomes viscid, and on cooling is converted into a transparent mass, similar to a solution of gumarabic. In this state the nitrate of picrotoxia is acid,

and exceedingly bitter.

Muriate of pierotopia. Muriatic acid, of the specific gravity 1.145, has little action on pierotoxia. It dissolves it when assisted by heat, but does not become entirely saturated. Five parts of this acid, diluted with three times its weight of water, dissolve about one part of picrotoxia at a strong boiling temperature. The liquor, on cooling, is converted into a grayish crystal-line mass, composed of confused crystals. When When these crystals are well washed, they are almost desti-

tute of taste, and feel elastic under the teeth.

Acetate of picrotoxia. Acetic acid dissolves picrotoxia very well, and may be nearly saturated with it by the assistance of a boiling heat. On cooling the acetate precipitates in well-defined prismatic needles. This acetate is soluble in fifty times its weight of boil-

ing water.

MENORHA'GIA. (From μηνια, the menses, and ρηγνυμι, to break out.) Humorrhagea uterina. Flooding. An immoderate flow of the menses, or uterine. hæmorrhage. A genus of diseases in the class Pyreria, and order Hemorrhagie, of Cullen, characterized by pains in the back, loins, and belly, similar to those of labour, attended with a preternatural flux of blood from the vagina, or a discharge of menses, more copious than natural. He distinguishes six species:—

Menorrhagia rubra; bloody, from women neither

with child nor in child-birth.

2. Menorrhagia alba, serous; the fluor albus. Leucorrhwa

3. Menurrhagia vitorium, from some local disease. 4 Menorrhagia lochialis, from women after delivery. See Lochia

5. Menorrhagia abortus. See Abortion.
6. Menorrhagia nabothi, when there is a serous dis-

charge from the vagina in pregnant women.

This disease seldom occurs before the age of puberty, and is often an attendant on pregnancy. ral a very dangerous disease, more particularly if it occur at the latter period, as it is then often so rapid and violent as to destroy the female in a very short time, where proper means are not soon adopted. Abortions often give rise to floodings, and at any period of pregnancy, but more usually before the fifth month than at any other time. Moles, in consequence an imperfect conception, becoming detached, often give rise to a considerable degree of hæmorrhage

The causes which most frequently give rise to floodings, are violent exertions of strength, sudden surprises and frights, violent fits of passion, great uneasiness of mind, uncommon longings during pregnancy, over fulness of blood, profuse evacuations, general weakness of the system, external injuries, as blows and bruises, and the death of the child, in consequence of which the placenta becomes partially or wholly detached from the uterus, leaving the months of the vessels of the latter, which anastomosed with those of the former, perfectly open. It is necessary to distinguish between an approaching miscarriage and a common flooding, which may be readily done by inquiring whether or not the hæmorrhage has proceeded from any evident cause, and whether it flows gently or is accompanied with unusual pains. The former usually arises from some fright, surprise, or accident, and does not flow gently and regularly but bursts out of a sudden, and again stops all at once, and also is auended with severe pains in the back and the bottom of the belly; whereas the latter is marked with no such occurrence. The further a woman is advanced in pregnancy, the greater will be the danger it floodingstake place, as the mouths of the vessels are much enlarged during the last stage of pregnancy, and of course a quantity will be dis-charged in a short time.

The treatment must differ according to the particular causes of the disease, and according to the different states of constitution under which it occurs. The ha morrhage is more frequently of the active kind, and requires the antiphlogistic plan to be strictly enforced, especially obviating the accumulation of heat in every way, giving cold acidulated drink, and using cold local applications; the patient must remain quiet in the horizontal posture; the diet be of the lightest and least stimulant description; and the bowels kept freely open by cooling laxatives, as the neutral salts, &c. It may be sometimes advisable in robust, plethoric females, particularly in the pregnant state, to take blood at an early period, especially where there is much pain with a hard pulse; digitalis and antimonials in nauseating doses would also be proper under such circumstances. But where the discharge is rather of a passive character, tonic and astringent medicines ought to be given: rest and the horizontal position are equally necessary, costiveness must be obviated, and cold astringent applications may be materially useful, or the escape of the blood may be prevented mechanically. escape of the blood may be prevented mechanisms. In alarming cases, perhaps the most powerful internative medy is the superacetate of lead, combined with opium; which latter is often indicated by the irritable state of the patient. A nourishing diet, with gentle exercise in a carriage, and the prudent use of the cold belt have the exercise. bath, may contribute to restore the patient, when the discharge has subsided.

ME'NSA. The second lobe of the liver was so called by the ancients.

ME'NSES. (From mensis, a month.) See Menstru-

Menses, immoderate flow of the. See Menorrhagia.

Menses, interruption of. See Amenorrhæa.
Menses, retention of. See Amenorrhæa.
Mensis philosophicus. A philosophical, or chemical month. According to some, it is three days and nights; others say it is ten; and there are who reckon

nights; others say it is a say. it to be thirty or forty days. it to be thirty or forty days. (Menstruatio; from menses.) From the uterus of every healthy woman who is not pregnant, or who does not give suck, there is a discharge of a red fluid, at certain periods, from the time of puberty to the approach of old age; and from the periods or returns of this discharge being monthly, it is called Menstruation. There are several exceptions to this definition. It is said that some women never menstruate; some menstruate while they continue to give suck; and others are said to menstruate during preg-; some are said to menstruate in early infancy, nancy; some are said to mensure and the said of the sa is generally true.

At whatever time of life this discharge comes on, a wight is said to be at puberty: though of this state it is a consequence, and not a cause. The early or late appearance of the menses may depend upon the climate, the constitution, the delicacy or hardness of living, and upon the manners of those with whom young women converse. In Greece, and other hot countries, girls begin to menstruate at eight, mine, and ten years of age; but, advancing to the northern climates, there is a gradual protraction of the time till we come to Lapland, where women do not menstruaic till they arrive at maturer age, and then in small quantities, at long intervals, and sometimes only in the summer. But, if intervals, and sometimes only in the sufficient state, in they do not menstruate according to the genius of the country, it is said they suffer equal inconveniences as in warmer climates, where the quantity discharged is much greater, and the periods shorter. In this country, girls begin to menstruate from the fourteenth to the eighteenth year of their age, and sometimes at a later period, without any signs of disease; but if they are luxuriously educated, sleeping upon down beds, and sitting in hot rooms, menstruation usually commences at a more early period.

Many changes in the constitution and appearance of women are produced at the time of their first beginning women are produced at the time of most most engining to mensionate. Their complexion is improved, their countenance is more expressive and animated, their attitudes graceful, and their conversation more interattitudes gracein, and their conversation more inter-ligent and agreeable; the tone of their voice becomes more harmonious, their whole frame, but particularly their breasts, are expanded and enlarged, and their

MEN MEN

minds are no longer engaged in childish pursuits and spirit of wine is the menstruum of the essential oils and amusements.

Some girls begin to menstruate without any preceding indisposition; but there are generally appearances or symptoms which indicate the change which is
about to take place. These are usually more severe
at the first than in the succeeding periods; and they
are similar to those produced by uterine irritation from
other causes, as pains in the back and inferior extremities, complaints of the viscera, with various hysteric
and nervous affections. These commence with the
first disposition to menstruate, and continue till the discharge comes on, when they abate, or disappear, returning however with considerable violence in some
women, at every period during life. The quantity of
fluid discharged at each evacuation, depends upon the
climate, constitution, and manner of living; but it
varies in different women in the same climate, or in
the same woman at different periods; in this country
it amounts to about five or six ounces.

There is also a great difference in the time required for the completion of each period of menstruation. In some women the discharge returns precisely to a day, or an hour, and in others there is a variation of several days without inconvenience. In some it is finished in a few hours, and in others it continues from one to ten days: but the intermediate time, from three to six days,

is most usual.

There has been an opinion, probably derived from the Jewish legislature, afterward adopted by the Arabian physicians, and credited in other countries, that the menstruous blood possessed some peculiar malignant properties. The severe regulations which have been made in some countries for the conduct of women at the time of menstruation; the expression used, Isaiah, chap. xxx. and in Ezekiel: the disposal of the blood discharged, or of any thing contaminated with it;—the complaints of women attributed to its retention:—and the effects enumerated by grave writers, indicate the most dreadful apprehensions of its baneful influence. Under peculiar circumstances of health, or states of the uterus, or in hot climates, if the evacuation be slowly made, the menstruous blood may become more acrimonious or offensive than the common mass, or any other secretion from it; but in this country and age no malignity is suspected, the menstruous woman mixes in society as at all other times, and there is no reason for thinking otherwise than that this discharge is of the most inoffensive nature.

is of the most inoffensive nature.

At the approach of old age, women cease to menstruate; but the time of cessation is commonly regulated by the original early or late appearance of the menses. With those who began to menstruate at ten or twelve years of age, the discharge will often cease before they arrive at fortry; but if the first appearance was protracted to sixteen or eighteen years of age, independently of disease, such women may continue to menstruate till they have passed the filtieth, or even approach the sixtieth year of their age. But the most frequent time of the cessation of the menses in this country, is between the forty-fourth and forty-eighth year; after which women never bear children. By this constitutional regulation of the menses, the propagation of the species is in every country confined to the most vigorous part of life; and had it been otherwise, children might have become parents, and old women might have become parents, and old women night have had children when they were unable to supply them with proper or sufficient nourishment.

MENSTRUUM. Solvent. All liquors are so called which are used as dissolvents, or to extract the virtues of ingredients by infusion, decoction, &c. The principal menstrua made use of in Pharmacy, are water, vinous spirits, oils, acid, and alkaline liquors. Water is the menstruum, of all salts, of vegetable gums, and of animal jellies. Of the first it dissolves only a determinate quantity, though of one kind of salt more than of another; and being thus saturated, leaves any additional quantity of the same salt untouched. It is never saturated with the two latter, but unites readily with any proportion of them, forming, with different quantities, liquors of different consistencies. It takes up likewise, when assisted by trituration, the vegetable gumnny resins, as ammoniacum and myrit; the solutions of which, though imperfect, that is, not transparent, but turbid and of a milky luc, are nevertheless consistencies.

resins of vegetables; of the pure distilled oils of ani mals, and of soaps, though it does not act upon the exmais, and of soaps, though it does not act upon the expressed oil, and fixed alkaline salt, of which soap is composed. Hence, if soap contains any superfluous quantity of either the oil or salt, it may, by means of this meastraum, be excellently purified therefrom. It dissolves, by the assistance of heat, volatile alkaline salts, and more readily the neutral ones, composed either of fixed alkali and the acetic acid, as the sal dimreticus, or of volatile alkali and the nitric acid. dissolve vegetable resins and balsams, wax, animal fats, mineral bitumens, sulphur, and certain metallic substances, particularly lead. The expressed oils are, substances, particularly lead. The expressed one are for most of these bodies, more powerful menstrua than those obtained by distillation; as the former are more capable of sustaining, without injury, a strong heat, which is, in most cases, necessary to enable them to act. All acids dissolve alkaline salts, alkaline earths, and metallic substances. The different acids differ greatly in their action upon these last: one dissolving some particular metals, and another others. The vegetable action is getable acids dissolve a considerable quantity of zinc. iron, copper, and tin; and extract so much from the metallic part of antimony as to become powerfully emetic; they likewise dissolve lead, if previously calcined by fire; but more copiously if corroded by their steam. The muriatic acid dissolves zinc, iron, and copper; and though it scarcely acts on any other metallic substance in the common way of making solutions, it may never-theless be artially combined with them all. The corrosive sublimate and antimonial caustic of the shops, are combinations of it with the oxides of mercury and antimony, effected by applying the acid in the form of fume, to the subjects at the same time strongly heated. The nitric acid is the common menstraum of all metallic substances, except gold and antimony, which are soluble only in a mixture of the nitric and muriatic. The sulphuric acid easily dissolves zinc, iron, and copper; and may be made to corrode or impertectly dissolve most of the other metals. Alkaline lixivia dissolve nost of the other metals. Alkaline lixivia dissolve oils, resinous substances, and sulphur. Their power is greatly promoted by the addition of quickline, instances of which occur in the preparation of soap and in the common caustic. Thus assisted, they reduce the in the common caustic. Thus assisted, they reduce the flesh, bones, and other solid parts of animals, into a gelatinous matter. Solutions made in water and spirit of wine, possess the virtue of the body dissolved: while oils generally sheathe its activity, and acids and alkalies vary its quality. Hence watery and spirituous liquors are the proper menstrua of the native virtues of vegetable and animal matters. Most of the foregoing solutions are easily effected, by pouring the menstruum on the body to be dissolved, and suffering them. straum on the body to be dissolved, and suffering them to stand together for some time, exposed to a suitable warmth. A strong heat is generally requisite to enable oils and alkaline liquors to perform their office; nor will acids act on some metallic bodies without its assistance. The action of watery and spirituous measurum is likewise expedited by a moderate heat, though the quantity which they afterward keep dissolved, is not, as some suppose, by this means increased. All that heat occasions these to take up, more than they would do in a longer time in the cold, will, when the heat ceases, subside again. The action of acids on the bodies which they dissolve, is generally accompanies. heat ceases, subside again. The action of acids on the bodies which they dissolve, is generally accompa-nied with heat, effervescence, and a copious discharge of fumes. The tunes which arise during the dissoluof fumes. The fumes which arise during the dissolution of some metals, in the sulphuric acid, prove inflammable; hence, in the preparation of the artificial vitriols of iron and zinc, the operator ought to be careful, especially where the solution is made in a narrow-mouthed vessed, lest, by the imprudent approach of a candle, the exhaling vapour be set on fire. There is another species of solution in which the moisture of air is the menstruum. Fixed alkaline salts, and those of the neutral kind, composed of alkaline salts, and any acid except the sulphuric; and some metallic salts, on being exposed for some time to a moist air, gradually attract its humidity, and at length become liquid. Some substances, not dissoluble in water in its grosser form, as the butter of antimony, are easily liquefied by this slow. stances, not dissoluble in water in its grosser form, as the butter of antimony, are easily fiquefied by this slow action of the aerial moisture. This process is termed Deliquation. The cause of solution assigned by some naturalists, namely, the admission of the fine particles of one body into the pores of another, whose figure fits them for their reception, is not just, or adequate, but | them for their reception, is not just, or adequate, but hypothetical and ill-presumed; since it is found that come bodies will dissolve their own quantity of others, as water does of Epsom salt, alkohol of essential oils, mercury of metals, one metal of another, &c. whereas the sum of the pores or vacuities of every body must be necessarily less than the body itself, and consequently those pores cannot receive a quantity of matter

equal to the body wherein they reside

How a menstruum can suspend bodies much heavier than itself, which very often happens, may be con-ceived by considering, that the parts of no fluids can be so easily separated, but they will a little resist or retard the descent of any heavy bodies through them; and that this resistance is, cateris paribus, still proportional to the surface of the descending bodies. But the surfaces of bodies do by no means increase or decrease in the same proportion as their solidities do; for the soin the same proportion as their straines to. For its lidity increases as the cube, but the surface only as the square of the diameter; wherefore it is plain, very small bodies will have much larger surfaces, in proportion to their solid contents, than larger bodies will, and consequently, when grown exceeding small, may easily be baoved up in the liquor.

MENTA GRA. (From mentum, the chin, and ayou, a prey.) An eruption about the chin, forming a tena-cious crust, like that on scald heads.

MENTIA ACTUAL Head of Scalar Beaus.

MENTIA. (From Monthe, the harlot who was changed into this herb.) Hedyosmus of the Greeks.

The name of a genus of plants in the Linnaean system. Class, Didynamia; Order, Gymnospermia. Mint.

MENTIA AQUATICA. Menthastrum; Sisymbolium.

menthrastrum; Mentha rotundifolea palustris. Watermint. This plant is frequent in most meadows, maishes, and on the banks of rivers. It is less agreeable than the spearmint, and in taste bitterer and more It may be used with the same intentions as the spearmint, to which, however, it is much inferior.

MENTHA CATARIA. See Vepeta cataria.

MENTHA CERVINA. The systematic name of the hards pennyroyal. Pulegram cereinum. This plant possesses the virtues of pennyroyal in a very great degree; but is remarkably unpleasant. It is seldom employed but by the country people, who substitute it for pennyroyal.

MENTHA CRISPA. Colymbifera minor; Achillea ageratum. This species of mendia has a strong and fra-grant smell, its tasse is warm, aromatic, and slightly bitter. In flattience of the prima via, hypochondri-acal and hysterical affections, it is given with ad-

vantage.

NANTAR PIPERITA. The systematic and pharmaco-pasial name of peppermint. Mentha piperitis; Men-tha-floribus capitates, joites ocutes petualitis, stami-nibus corolla brevioribus, of kinnæus. The sponta-neous growth of this plant is said to be peculiar to Britain. It has a more penetrating smell than any of britain. It has a more penetrating smear than any or the other mints: a strong pungent taste, glowing like pepper, sinking, as it were, into the tongue, and fol-lowed by a sense of coolness. The stomachic, anti-rpasmodic, and carminative properties of peppermint, render it useful in flatulent colles, hysterical affections, retchings, and other dyspeptic symptoms, acting as a cordial, and often producing an immediate relief. Its official preparations are an essential oil, a simple water, and a spirit.

MENTRA PPERITYS. See Mentha piperita.

MENTRA PPERITYS. See Mentha piperita.

MENTRA PPERITYS. The systematic name of the pennyroyal. Pulegram; Pulegram regule; Pulegram latefolium glechon. Pulding grass. Mentha-florebus verticallatis, folius ovatis obtassis subcrentis, cambins subtrettibus repentibus, of Linnaus. This plant is considered as a compactive, compactive, or of considered as a compactive, compactive, or of considered as a compactive. subteretibus repentibus, of Linnaus. This plant is considered as a carminative, stomachic, and emmenagogue; and is in very common use in hysterical dis-orders. The officinal preparations of pennyroyal are,

a simple water, a spirit, and an essential oil.

Mentha saracenica. See Tanacetun balsamita.

Mentha sativa. See Mentha viridis.

Mentha spicata. See Mentha viridis.

Mentha viridis. Speamint. Cailed also Mentha viridis.

Mentha viridis. Speamint. Cailed also Mentha viridis.

Mentha viridis. Speamint. reserving incomes. Spearing Caneer also Mentha spreade; Mentha spreade; Mentha—spreade Mentha—spreade shing; folias lanceolates mudes servates sossibus, stamenbus corolla languardus, of Linuaus. This plant grows wild in many parts of England. It is not so warm to the taste as peppermint, but has a more agreeable flavour, and is the other contents. your, and is therefore preferred for culinary purposes Its medicinal qualities are similar to those of pepper-

mint; but the different preparations of the former, though more pleasant, are, perhaps, less efficacious. The officinal preparations of spearmint are an essenthe officinal preparations of speadmin are an tial oil, a conserve, a simple water, and a spirit. MENTHA STRUM. (Diminutive of mentha.)

Mentha aquatica.

MENTI LEVATOR. See Livator labit inferioris.
MENTULA. (From match, a staff, Heb.) The

MENTULA'GRA. (From mentula, the penis, and ayoa, a prey.) A disorder of the penis, induced by a contraction of the erectores musculi, and causing im-

MENYA'NTHES. The name of a genus of plants in the Linnaran system. Class, Pentandria; Order,

Monogynia.

MENYANTHES TRIFOLIATA. The systematic name of the buck-bean. Trefolium pakudosum: Trefolium aquateum; Trefolium jihrawaw; Menyanthes. Water tretoil, or buck-bean. Menyanthes—folius ternatis, aquations, Trajotam Riverman; Mengantics. Water treioil, or buck-bean. Menganthes—jolus ternatis, of Linuxens. The whole plant is so extremely bitter, that in some countries it is used as a substitute for hops, in the preparation of malt liquor. It is sometimes employed in country places as an active eccoprotic bitter in hydropic and rheumatic affections. Cases or related by its most officers, in some cases. are related of its good effects in some cutaneous dis-eases of the herpetic and seemingly cancerous kind.

MEPHITIC. Having a disagreeable noxious smell

or vanour. Maphetic acid. The carbonic acid.

M. philic oir. See Nitrogen.

(From mephuhith, a blast, Syr.) A MEPHITIS.

poisonous exhalation.

MERCURIALI, GIROLAMO, was born at Torli, in MERCURLYII, GIROLAMO, WAS born at 10th, In Romanna, in 1530. After taking the requisite degrees, he settled as a physician in his native town; and was delegated, at the age of 32, on some public business to Pope Pins IV at Rome. He evinced so much talent on this occasion, that he was particularly invited to remain there; which he accepted, chiefly as it enabled him to pursue his favourite studies to more advantage. He produced, in 1569, a learned and elegant work, "De Arte Gymnastica," which was many times reprinted; and the reputation of this procured him the appointment to the first medical chair at Padua. In 1573, he was called to Vienna to attend the emperor Maximilian 11., and was so successful, that he returned loaded with valuable presents, and honoured with the dignities of a knight and count palatine. In 1587, he removed to Bologna, which is ascribed to a degree of self-accusation, in consequence of an error of judg-ment, into which he had been led, in pronouncing a disease, about which he was consulted at Venice, not contagious, whence much mischief had arisen. His reputation, however, does not appear to have materi-ally suffered from this; and he was invited, in 1599, by the grand duke of Tuscany, to Pisa; but shortly after, a severe calculous affection prevented the execution of his duties, and he retired to his native place, where his death happened in 1606. He was a voluminous writer, and, among many other publications, edited a classified collection of the works of Hippocrates, with a learned commentary; but he was too much bigoted to ancient authority and hypothesis. He wrote on the diseases of the skin, those peculiar to women and children, on poisons, and several other subjects.

MERCURIA'LIS. (From Mercurius, its disco-

The name of a genus of plants in the Linnwan system. Class, Diwcia; Order, Enneandria.
 The pharmacopoial name of the French mercury.

2. The pharmacopolar mane of the resconnectory.

See Meccuriolis annua.

Meccuriolis annua.

Meccuriolis annua.

The leaves of this plant have no remarkable smell, and very little taste. It is ranked among the emoliient oleraceous herbs, and is said to be gently aperient. Its principal use has been in clysters.

MERCURIALIS MONTANA. See Mercurialis perennis. MERCURIALIS PERENNIS. The systematic name of dog's mercury. Cynocrambe; Mercurialis montana superstris. A poisonous plant, very common in our hodges. It produces vomiting and purging, and the person then goes to sleep, from which he does not often awake.

Mercurialis sylvestris. See Mercurialis perennus.

MERCURIUS. (So called from some supposed portion. There is a slight union between mercury relation it bears to the planet of that name.) Mercury. and phosphorus. It does not unite with carbon, or the See Mercury.

MERCURIUS ACETATUS. See Hydrargyrus acetatus. MERCURIUS ALKALIZATUS. See Hydrargyrum cum

MERCURIUS CALCINATUS. See Hydrargyri oxydum rubrum.

MERCURIUS CHEMICORUM. Quicksilver.

MERCURIUS CINNABARINUS. See Sulphuretum hydrargyri rubrum

MERCURIUS CORROSIVUS. See Hydrargyri oxy-

MERCURIUS CORROSIVUS RUBER. See Hydrargyri nitrico-oxydum MERCURIUS CORROSIVUS SUBLIMATUS. See Hy-

drargyri oxymurias MERCURIUS DULCIS SUBLIMATUS. See Hyrdargyri

submurias. MERCURIUS EMETICUS FLAVUS. See Hydrargyrus

MERCURIUS MORTIS. See Mercurius vitæ. MERCURIUS PRACIPITATUS ALBUS. See Hydrargy-

rum pracipitatum album.

MERCURIUS PRÆCIPITATUS DULCIS. See Hydrar-

gyri submurius. Mercunius præcipitatus ruber. See Hydrar

gyri nitrico-oxydum.

MERCURY. Hydrargyrum; Hydrargyrus; Mercurius. A metal found in five different states in nature. 1. Native, (native mercury,) adhering in small globules to the surface of clunabar ores, or scattered through the crevices, or over the surfaces of different kinds of stones. 2. It is found united to silver, in the ore called amalgam of silver, or native amalgam of silver. This ore exhibits thin places, or grains; it sometimes crystallizes in cubes, parallelopipeda, or pyramids. Its colour is of a silver white, or gray; is lustre is considerably metallic. 3. Combined with sulphur, it constitutes native cinnabar, or sulphuret of mercury. This ore is the most common. It is fremercury. This ore is the most common. It is frequently found in veins, and sometimes crystallized in tetrahedra, or three-sided pyramids. Its colour is red. Its streak, metallic. 4. Mercury oxidized, and united either to muriatic or sulphuric acid, forms the ore called horn quicksilver, or corneous mercury. These ores are, in general, semi-transparent, of a gray or white colour, sometimes crystallized, but more frequently in grains. 5. United to oxygen, it constitutes the ore called native oxide of mercury. Mercurial ares particularly abound in Spain, Hungary, China, and South America. South America.

Properties .- Mercury, or quicksilver, is the only one of the metals that remains fluid at the ordinary temperature of the atmosphere, but when its temperature peracure of the atmosphere, but when its temperature is reduced to —10 degrees below 0 on Fahrenheit's thermometer; it assumes a solid form. This is a degree of cold, however, that only occurs in high northern latitudes, and, in our climate, mercury cannot be exhibited in a solid state, but by means of artificial cold. When rendered solid, it possesses both ductility and malleability. It crystallizes in octahedra, and contracts strongly during congelation. It is divisible into very small globules. It presents a convex appearance in vessels to which it has little attraction, but is concave in those to which it more strongly adheres. becomes electric and phosphorescent by rubbing upon glass, and by agitation in a vacuum. It is a very good conductor of caloric, of electricity, and of galvanism. The specific gravity of mercury is 13.563. Although fluid, its opacity is equal to that of any other metal, and its surface, when clean, has considerable lustre. Its colour is white, similar to silver. Exposed to the becomes electric and phosphorescent by rubbing upon temperature of somewhat above 600° Fah. it is volatilized. When agitated in the air, especially in contact with viscous fluids, it becomes converted into a black oxide. At a temperature nearly the same as that at which it boils, it absorbs about 14 or 15 per cent. of oxygen, and then becomes changed into a red crystal-lizable oxide, which is spontaneously reducible by light and caloric at a higher temperature. The greater number of the acids act upon mercury, or are at least capable of combining with its oxides. It combines with sulphur by trituration, but more intimately by heat. It is acted on by the alkaline sulphurets. It combines with many of the metals; these compounds combining with many of the metals; these compounds are brittle, or soft, when the mercury is in large pro-

and phosphorus. It does not unite with carbon, or the

Method of obtaining Mercury .- Mercury may be ob-Method of obtaining Microary.—Mircuity may be obtained pure by decomposing cinnabar, by means of iron filings. For that purpose, take two parts of red sulphuret of mercury (cinnabar), reduce it to powder, and mix it with one of iron filings, put the mixture into a stone retort, direct the neck of it into a bottle, or receiver, filled with water, and apply heat. The mercury will then be obtained in a state of purity.

In this progress, the sulphuret of megury, which

In this process, the sulphure to mercury, which consists of sulphur and mercury, is heated in contact with iron, the sulphur quits the mercury and unites to the iron, and the mercury becomes disengaged; the

to the non, and the increasy occurses disengages, the residue in the refort is a sulphiret of iron. Mercury is a very useful article both in the cure of diseases and the arts. There is scarcely a disease against which some of its preparations are not exhibited; and over the venereal disease it possesses a specific power. It is considered to have first gained repute in curing this disease, from the good effects it produced in eruptive diseases. In the times immediately following the venereal disease, practitioners only attempted to employ this remedy with timorous caution, so that, of several of their formulæ, mercury scarcely composed a fourth part, and few cures wer effected. On the other hand, empiries who noticed the little efficacy of these small doses, ran into the opposite extreme, and exhibited mercury in such large quantities, and with such little care, that most of their patients became suddenly attacked with the most violent salivations, attended with dangerous consequences. From these two very opposite modes of practice, there originated such uncertainty respecting what could be expected from mercury, and such fears of the consequences which might result from its employment, that every plan was eagerly adopted which offered the least chance of cure without having recourse to this mineral. A medicine, however, so powerful, and whose neral. A memorine, nowever, so powerint, and whose salutary effects were seen by attentive practitioners, amid all its inconveniences, could not sink into oblivion. After efforts had been made to discover a substitute for it, and it was seen how little confidence those means deserved on which the highest praises had been taken to the highest praises. had been lavished, the attempts to discover its utility A medium was pursued, between the were renewed. too timid methods of those physicians who had first

too timid methods of those physicians who had first administered it, and the inconsiderate botdness of the empirics. Thus the causes from which both parties twiled were avoided; the character of the medicine was revived in a more durable way, and from this period its reputation has always been maintained. It was about this speech that mercury began to be internally given: hitherto it had only been externally employed, which was done in three manners. The first, was in the form of liniment, or ointment; the second, as a plaster; and the third, as a funigation. Of the three methods just described, only the first is at present much in use, and even this is very much alternative. present much in use, and even this is very much alter-Mercurial plasters are now only used as topical ed. Mercuriar passers are now only used as copied discutient applications to tumours and indurations. Fumigations, as anciently managed, were liable to many objections, particularly from its not being possible to regulate the quantity of mercury to be used, and from the effect of the vapour on the organs of respirations that the content of the property of the prop tion frequently occasioning trembling, palsies, &c. Frictions with ointment have always been regarded as the most efficacious mode of administering mercury.

Mercury is carried into the constitution in the same way as other substances, either by being absorbed from the surface of the body, or that of the alimentary canal. It cannot, however, in all cases, be taken into the constitution in both ways, for sometimes the absorbents of the skin will not readily receive it; at least no effect is produced, either on the disease or constitution, from this mode of application. On the other hand, the internal absorbents will, sometimes, not take up the medicine, or, at least, no effect is produced either on the disease or constitution. In many persons, the bowels can hardly bear mercury at all; and it should then be given in the mildest farm neglection. the constitution in both ways, for sometimes the aband it should then be given in the mildest form possible, conjoined with such medicines as will lessen or or the constitution. When mercury can be thrown into the constitution with propriety, by the external method, it is preferable to the internal plan; because

the skin is not nearly so essential to life as the stomach, | and is therefore in itself capable of bearing much more than the stomach. The constitution is also less infured. Many courses of mercury would kill the patient if the medicine were only given internally, because it proves hurtful to the stomach and intestines, when given in any form, or joined with the greatest cor-

Mercury has two effects: one as a stimulus on the constitution and particular parts, the other as a specific on a diseased action of the whole body, or of parts. The latter action can only be computed by the disease

disappearing.

In giving mercury in the venereal disease, the first attention should be to the quantity, and its visible effects account should be to the quantity, and its visible effects in a given time; which, when brought to a proper pitch, are only to be kept up, and the decline of the disease to be watched; for by this we judge of the invisible to specific effects of the medicine, and know what variation in the quantity may be necessary. The visible effects of mercury affect either the whole constitution, or some parts capable of secretion. In the first, it pro duces universal irritability, making it more susceptible of all impressions. It quickens the pulse, increases its hardness, and occasions a kind of temporary fever. In some constitutions it operates like a poison. In some it produces a hectic fever; but such effects commonly diminish on the patient becoming accustomed to the medicine.

Mercury often produces pains like those of rheumatism, and nodes of a scrofulous nature. The quantity of mercury to be thrown in for the cure of any venereal complaint, must be proportioned to the violence of the disease. A small quantity used quickly, will have equal effects to those of a large one employed slowly; but if these effects are merely local, that is, upon the glands of the month, the constitution at large not being equally stimulated, the effects upon the dis-eased parts must be less, which may be known by the local disease not giving way in proportion to the effects of mercury on some particular part. If it be given in very small quantities, and increased gradually, so as to steal insensibly on the constitution, a vast quantity at a time may at length be thrown in, without any visible effects at all.

The constitution, or parts, are more susceptible of

mercury at first than afterward.

Mercury occasionally attacks the bowels, and causes violent purging, even of blood. This effect is remedied violent purging, even of blood. This effect is remedied by intermitting the use of the medicine, and exhibiting optium. At other times, it is suddenly determined to the mouth, and produces inflammation, ulceration, and an excessive flow of saliva. To obtain relief in this circumstance, purgatives, nitro, sulphur, gum-arabic, lime-water, camphor, bark, sulphuret of potassa, blis-ters, &c. have been advised. Pearson, however, does not place much, confidence in the efficacy of such means; and, the mercury being discontinued for time, he recommends the patient to be freely exposed to cold air, with the occasional use of cathantics, mineral acids, Peruvian bark, and the assiduous appli-cation of astringent gargles. The most material objection (says Pearson) which I foresee against the method of treatment I have recommended, is the the sativa suddenly checked, and of suffering some other disease in consequence of it.

The hasty suppression of a ptyalism may be followed by serious inconveniences, as violent pains, vomiting,

and general convulsions.

Cold liquids taken into the stomach, or exposure of Cold Iquios taken into the stomach, or exposure of the body to the cold air, must beguarded against during a course of mercury. Should a suppression of the pysaism take place, from any act of indiscretion, a quick introduction of mercury should be had recourse to, with the occasional use of the warm bath.

Mercury, when it falls on the mouth, sometimes produces inflammation, which now and then terminates in mortification. The ordinary operation of mercury does not permanently injure the constitution; but, occasionally, the impairment is very material mercury may even produce local diseases, and retard the cure of chancres, buboes, and certain effects of the lues venerea, after the poison has been destroyed. Occasionally mercury acts on the system as a poison, quite unconnected with its agency as a remedy, and neither proportionate to the inflammation of the mouth 64

nor actual quantity of the mineral absorbed. Pearson has termed this morbid state of the system erethismus; it is characterized by great depression of strength, a sense of anxiety about the pracordia, pregular action sense of anxiety about the practorial, pregular action of the heart, frequent sighing, trendling, a small, quick, and sometimes intermitting pulse, occasional conting, a pale contracted countenance, a sense of coldmess; but the tongue is seidon furred, and neither the natural nor vital functions are much disturbed. When this effect of mercury takes place, the use of mercury should be discontinued, whatever may be the stage, extent, or violence of the venereal disease. The patient should be exposed to a dry and cool air, in such a way as not to give ladgue; in this way, the patient will often recover in ten or fourteen days. In the early stage, the crethismus may often be averted by leaving off the mercury, and giving camphor mixture with volatile alkali. Occasionally, the use of mercury brings on a peculiar cruption, which has received the names of mercurial rash, eczema mercuriale, lepra mercurialis, mercurial disease, and erythema mercuriale

In order that mercury should act on the human body, it is necessary that it should be oxidised, or combined with an acid. The mercury contained in the unguen-tum bydrargyri, is an oxide. This, however, is the most simple and least combined form of all its prepara-tions, and hence (says Mr. S. Cooper), it not only operates with more mildness on the system, but with more specific effect on the disease. Various salts of mercury operate more quickly when given internally than mer-curial frictions; but few practitioners of the present day confide in the internal use of mercury alone; particularly when the venereal virus has produced effects in consequence of absorption. Rubbing in mer-cural ointment is the mode of affecting the system with mercury in the present day; and, as a substitute for this mode of applying mercury, Mr. Abernethy re-commends the mercurial fumigation, where the patient has not strength to rub in ointment, and whose bowels will not hear the internal exhibition of it.

The preparations of mercury now in use are,

Oxydum bydrargyri cinereum. Oxydum hydrargyri rubrum.

Oxy-murias hydrargyri.

Submurias hydrargyri. Sulphuretum hydrargyri rubrum et nigrum.

Hydrargyrum oum creta

Hydraegyrum precipitatum album.

Hydraigyrum purificatum.

Mercury, dog's. See Mercurialis. Mercury, French. See Mercurialis.

Mercury, French. See Mercurialis.

Mercury, French. See Mercurialis.

Mercury, French. (From μερος, a part, and βαλανειον,

a bath.) A partial bath.

MEROCF LE. (From μερος, a part, and βαλανειον,
a bath.) A partial bath.

MEROCF LE. (From μερος, the thigh, and κηλη, a
tumour.) A femoral hernia. See Hernia.

ME ROS. Mygos. The thigh.
MERRET, CHRISTOPHER, was born at Winchcombe in 1614. After graduating at Oxford, he settled in London, became a relow of the College of Physiciaus, and one of the original members of the Philosophical Society, which, after the Restoration, was called the Royal Society. He appears to have had a considerable Royal Society. He appears to have had a considerable practice, and reached his Slst year. His first publication was a Collection of Acts of Parliament, &c. in proof of the exclusive Rights of the Collece, printed in 1600; which afforded the basis of Dr. Goodall's history; this was followed nine years after by "A Short View of the Frauds of Apothecaries," which involved him in much controversy. He published also a Catalogue of the Natural Productions of this Island. of which the botanical part is best executed; and he communicated several papers to the Royal Society.

ME'RUS. Applied to several things in the same

sense as genuine, or unadulterated; as merum vinum,

MERY, John, was born at Vatau, in France, in 1645. His father being a surgeon, he determined upon the same profession, and went accordingly to the Hôtel Dieu at Paris, where he studied with extraordinary Dieu at Fairs, where he studen with extraordinary andour, even passing the night in dissection in his bed-room. In 1681 he was appointed to the office of queen's surgeon; and two years after, surgeon-major queen's surgeon, and two years and; surgeon-major to the invalids. Soon after this he was chosen to awend the Queen of Portugal, who died, however, before his arrival; and he refused very advantageous

offers to detain him at that, as well as the Spanish Court. He was now received into the Academy of Sciences, and shortly after sent on a secret journey to England; then chosen to attend upon the Duke of Burgundy, then chosen to agreed upon the Duke of sur-gundy, who was a child. But these occupations were trksome to him, and he even shunned private practice, and general society, devoting nimself to the dutes of the hospital of invalids, and to the dissecting-room. In 1700. he was appointed first surgeon to the Hotel In 1700, he was appointed first surgeon to the Hötel Dieu, which gratified his utmost ambition; and he declined repeated solicitations to give lectures there on anatomy. He procured, however, the erection of a theatre for the students, where they might have more regular instruction. It was a great part of the labour of his life to form an anatomical museum, yet he did not estimate these researches too highly, and was very slow in framing, or in receiving, new theories concerning the animal economy. About the age of 55, he said. ing the animal economy. About the age of 75, he suddenly lost the use of his legs, after which his health declined, and he died in 1722. Besides many valuable declined, and he died in 1722. Besides many valuable communications to the Academy of Sciences, he published a description of the ear; Observations on Frère Jacques's Method of Cutting for the Stone, the general principle of which he approved; a tract on the Feetal Circulation, controverting the received opinion, that part of the blood passes from the right to the left ventricle, through the foramen ovale, and even assigning it an opposite course; and physical problems, concerning the com-its nutrition.

MESARE'UM. (From µ

MESARE'UM. (From µ

D.V.A'NTHE ing the connexion of the fætus with the mother, and

(From µ2005, the middle, and apata,

the belly.) The mesentery.

MESEMBRYA'NTHEMUM. (So called from the circumstance of its flowers expanding at midday. The name of a vast genus of plants. Class, Lousantern and the contract of the name of a vast genus of plants. dria; Order, Pentagynia.

Mesembryanthemem crystallinum. The juice of this plant, in a dose of four spoonfuls every two hours, it is asserted, has removed an obstinate spasmodic affection of the neck of the bladder, which

modic affection of the neck of the bladder, which would not yield to other remedies.

MESENTERIC. Mesentericus. Belonging to the mesentery. See Mesentery.

Mesentery. Arteria mesenterica. Two branches of the aorta in the abdomen are so called. The superior mesenteric is the second branch; it is distributed upon the mesentery, and gives off the superior or right colic artery. The inferior mesenteric is the fifth branch of the aorta; it sends off the internal hamorrhoidal. hæmorrhoidal.

MESENTERIC GLANDS. Glandulæ mesentericæ. These are conglobate, and are situated here and there in the cellular membrane of the mesentery. The chyle from the intestines passes through these glands

to the thoracic duct.

MESENTERIC NERVES. Nervorum plexus mesentericus. The superior, middle, and lower mesenteric plexuses of nerves are formed by the branches of the

great intercostal nerves.

MESENTERIC VEINS. Venæ mesentericæ.

run into one trunk, that evacuates its blood into the vena porta. See Vena porta.

MESENTERITIS. (From μεσεν ζεοιον, the mesentery.) An inflammation of the mesentery. See Peri-

ME'SENTERY. ME'SENTERY. (Mesenterium; from μεσος, the middle, and ενζερον, an intestine.) A membrane in the cavity of the abdomen attached to the vertebræ of the loins, and to which the intestines adhere. It is formed of a duplicature of the peritonsum, and contains within it adipose membrane, lacteals, lymphatics, lacteal glands, mesenteric arteries, veius, and nerves Its use is to sustain the intestines in such a manner that they possess both mobility and firmness; to support and conduct with safety the blood-vessels, lacteals, and nerves; to fix the glands, and give an external coat to the intestines.

It consists of three parts: one uniting the small intestines, which receives the proper name of mesentery another connecting the colon, termed mesocolon; and

anomer connecting the coon, termed mesocolor; and a third attached to the rectum, termed mesocorour; and MESERAIC. The same as mesenteric.

MESE'RAIC. The same as mesenteric.

MESE'RE. A disorder of the liver, mentioned by Avicenna, accompanied with a sense of heaviness, aumour, inflammation, pungent pain, and blackness of the toware. the tongue.

MESOCO'LON. (From μεσος, the middle, and κωλον, the colon.) The portion of the mesentery to which the colon is attached. The mesentery and mesocolon are the most important of all the productions of the peritonaum. In the pelvis, the peritonaum spreads itself shortly before the rectum. But where that intestine becomes loose, and forms the semilunar curve, the peritonaum there rises considerably from the middle iliac vessels, and region of the psoas muscle, double, and with a figure adapted for receiving the hol-low colon. But above, on the left side, the colon is connected with almost no intermediate loose production to the peritonæum, spread upon the psoas muscle, as high as the spleen, where this part of the perito-næum, which gave a coat to the colon, being extended under the spleen, receives and sustains that viscus in

a hollow superior recess.

Afterward the peritonœum, from the left kidney, from the interval between the kidneys, from the large from the interval detwicen the kinneys, from the large ressels, and from the right kidney, emerges forwards under the pancreas, and forms a broad and sufficiently long continuous production, called the transverse me-socolon, which, like a partition, divides the upper part of the abdomen, containing the stomach, liver, spleen, and pancreas, from the lower part. The lower plate of this transverse production is continued singly from of this transverse production is continued singly from the right mesocolon to the left, and serves as an external coat to a pretty large portion of the liver, and descending part of the duodenum. But the upper plate, less simple in the course, departs from the lumbar peritoneum at the kidney, and region of the vena care farther to the right than the duodenum, to which it gives an external membrane, not quite to the valve of the pylorus; and beyond this intestine, and beyond the colon, it is joined with the lower plate, so that a large part of the duodenum lies within the cavity of the part of the duodenum lies within the cavity of the mesocolon. Afterward, in the region of the liver, the mesocolon is inflected, and descending over the kidney of the same side much shorter, it includes the right of the colon, as far as the intestinum cacum, which rests upon the illac muscle and the appendix, which is pro-vided with a peculiar long curved mesentery. There the mesocolon terminates, almost at the bifurcation of

The whole of the mesocolon and of the mesentery is hollow, so that the air may be forced in between its two lamina, in such a manner as to expand them into a bag. At the place where it sustains the colon, and also from part of the intestinum rectum, the mesocolon, continuous with the outer membrane of the intestine, forms itself into small slender bags, resembling the omentum, for the most part in pairs, with their loose extremities thicker and bifid, and capable of admitting air blown in between the plates of the meso-

MFSOCRA'NIUM. (From μεσος, the middle, and κρανιον, the skull.) The crown of the head, or vertex.
MESOGA'STRIUM. (From μεσος, the middle, and γασης, the stomach.) The concave part of the stomach. γαςηρ, the stomach.) The concave part of the which attaches itself to the adjacent parts.

MESOGLO'SSUS. (From μεσος, the middle, and γλωσσα, the tongue.) A muscle inserted in the middle

MESOME RA. (From μεσος, the middle, and μηρος, the thigh.) The parts between the thighs.

MESOMPHALIUM. (From μεσος, the middle, and ομφαλος, the navel.)

MESO'PHRYUM. (From μεσος, the middle, and (From μεσος, the middle, and The part between the eyeοφουα, the eyebrows.)

MESOPLEU'RUM. (From μεσος, the middle, and πλευρον, a rib.) The space or muscles between the

ribs.

MESORE'CTUM. (From µ2005, the middle, and rectum, the straight gut.) The portion of peritonœum which connects the rectum of the pelvis.

MESOTHENAR. (From µ2005, the middle, and θ2ναρ, the palm of the hand.) The muscle situated in the middle of the palm of the hand.

MESOTICA. (From µ2005, medius.) The name of an order of diseases in the class Eccritica, in Good's Nicology. Diseases affecting the parenchyma. Its

Nosology. Discasses affecting the parenchyma. Its genera are the following: Polysarcia; Emphyma; Porostia; Cyrlosis; Osthezia. MESOTYPE. Prismatic zeolite. A species of the

ME SPILUS. (OTI EV TW HEOW TINOS, because it

has a cap or crown in the middle of it.) 1. The name! of a genus of plants in the Linnaan system. Class, of a genus of plants in the Hinnean system. Class, Icosandria; Order, Pentagynia.

2. The pharmacopæial name of the medlar. See

Mespitas germanica.

MESPILUS GERMANICA. The systematic name of the mediar-tree. This fruit, and also its seeds, have been used medicinally. The immature fruit is serviceable in checking diarrheas; and the seeds were formerly esteemed in allaying the pain attendant on nephritic diseases.

nephritic diseases.

MESUE, one of the early physicians among the Arabians, was born in the province of Khorasan, and flourished in the beginning of the ninth century. His father was an apothecary at Nisaboar. He was educated in the profession of physic by Gabriel, the son of George Backtishua, and through his favour was appointed physician to the hospital of his native city. Although a Christian, he was in great favour with several successive Caliphs, being reputed the ablest scholar and physician of his age. When Haroun al Raschid appointed his son viceroy of Khorasan, Mesue Raschid appointed his son viceroy of Khorasan, Mesue was nominated his body physician, and was placed by him at the head of a college of learned men, which he instituted there. When Almammon succeeded to the throne in 813, he brought Mesue to Bagdad, and the throne in 513, he brought Mesue to baguar, and made him a professor of medicine there, as well as superintendent of the great hospital, which offices he filled a great number of years. He was also employed in transferring the science of the Greeks to his own country, by translating their works. He is supposed by Freind to have written in the Syriac tongue was author of some works, which are cited by Rhazes, and others, but appear to have perished; for those now extant in his name do not correspond with these citations, nor with the character given of them by Haly Abbas, besides that Rhazes is quoted in them, who lived long after Mesue: they probably belonged to another physician of the same name, who is mentioned by Leo Africanus, and died in the beginning of the

eleventh century. META BASIS. (From μεταβαινω, to digress.) tabole. A change of remedy, of practice, or disease; or any change from one thing to another, either in the curative indications, or the symptoms of a dis-

META'BOLE. See Metabasis.
METACARFAL. Belonging to the metacarpus.

METACARPAL BONES. The five longitudinal bones that are situated between the wrist and the fingers; they are distinguished into the metacarpal bone of the

thumb, forefinger, &c.

METACA RPUS. (From μετα, after, and καοπος, the wrist.) Metacarpium. That part of the hand which is between the wrist and the fingers.

METACA RPEUS. A muscle of the carpus.

ductor metaeurpi minimi digiti manus.

METACERA SMA. (From μετα, after, and κεραννυμι, to mix.) Cerasma. A mixture tempered with any additional substance.

METACHEIRI'XIS. (From μεταχειρίζω, to perform by the hand.) Surgery, or any manual operation. METACHORE'SIS. (From μεταχωρεω, to digress.)
The translation of a disease from one part to another

METACINE MA. (From μετα, and κινεω, to remove.) A distortion of the pupil of the eye.

DYLUS. (From μετα, after, and κονδυλος, The last joint of a finger, which contains METACO'NDYLUS. a knuckle.) the nail.

METALLAGE. (From μεταλλατ/ω, to change. A change in the state or treatment of a disease. METALLURGIA. (From μεταλλον, a metal, and εργον, work, labour.) That part of chemistry which

concerns the operations of metals.

METALS. The most numerous class of undecompounded chemical bodies, distinguished by the follow ing general characters:-

They possess a peculiar lustre, which continued in the streak, and in their smallest fragments.
 They are fusible by heat; and in fusion retain their lustre and opacity.
 They are all, except selenium, excellent conductors, both of electricity and caloric.

4. Many of them may be extended under the hammer, and are called malicable; or under the rolling press, and are called laminable; or drawn into wire, and are called ductile. This capability of extension depends, in some measure, on a tenacity peculiar to the metals, and which exists in the different species with very different degrees of force.

5. When their saline combinations are electrized,

the metals separate at the resino-electric or negative

6. When exposed to the action of oxygen, chlorine, or iodure, at an elevated temperature, they generally take fire; and, combining with one or other of these three elementary dissolvents in definite proportions, are converted into earthy or saline-looking bodies, devoid of metallic lustre and ductility, called oxides, chlorides or iodides.

7. They are capable of combining in their melted state with each other, in almost every proportion, constituting the important order of metallic alloys; in which the characteristic lustre and tenacity are pre-

served

8. From this brilliancy and opacity conjointly, they reflect the greater part of the light which falls on their surface, and hence form excellent mirrors.

9. Most of them combine in definite proportions with sulphur and phosphorus, forming bodies frequently of a semi metallic aspect; and others unite hydrogen, carbon, and boron, giving rise to peculiar gascous or solid compounds.

10. Many of the metals are capable of assuming, by particular management, crystalline forms; which are, for the most part, either cubes or octohedrons.

The relations of the metals of the various objects of chemistry, are so complex and diversified, as to render their classification a task of peculiar difficulty.

The first 12 are malleable; and so are the 31st and 32d, in their congealed state.

The first 16 yield oxides, which are neutral salifiable bases.

The metals 17, 18, 19, 20, 21, 22, and 23, are acidifiable by combination with oxygen. Of the oxides of the rest, up to the 30th, little is known. The remaining metals form, with oxygen, the alkaline and earthy

All the metals are found in the bowels of the earth, though sometimes they are on the surface. They are met with in different combinations with other matters, such as sulphur, oxygen, and acids; particularly with the carbonic, muriatic, sulphuric, and phosphoric acids. They are also found combined with each other, and Sometimes, though rarely, in a pure metallic state, distinguishable by the naked eye.

In their different states of combination, they are said

to be mineralized, and are called ores. metals are, for the most part, found in nature in mountainous districts; and always in such as form a con-tinued chain. There are mountains which consist entirely of iron ore, but, in general, the metallic part of a mountain bears a very inconsiderable proportion to its Ores are also met with in the cavities or crevices of rocks, forming what are termed veins, which are more easily discovered in these situations than when they lie level in plains.

The metallic matter of ores is very generally incrusted, and intermingled with some earthy substance, different from the rock in which the vein is situated; which is termed its matrix. This, however, must not be confounded with the mineralizing substance with which the metal is combined, such as sulphur, &c

| NAMES.                     |            |                              |                            | Colour of           | Precipitates by         |                        |
|----------------------------|------------|------------------------------|----------------------------|---------------------|-------------------------|------------------------|
| MARKES.                    | Sp. gr.    | Precipitants.                | Ferroprussiate of potassa. | Infusion of galls.  | Hydrosulphurets.        | Sulphuretted hydrogen. |
| 1 Plantinum                | 21.47      | Mur. Ammon.                  | 0                          | 0                   |                         |                        |
| 2 Gold                     | 19.30      | Sulph. iron                  | Yellowish-white            | Green; met.         | Yellow                  | Black met. powd.       |
| 3 Silver                   | 10.45      | Nitr. mercury<br>Common salt | White                      | Yellow-brown        |                         | Yellow                 |
| 4 Palladium                | 11.8       | Prus. mercury                | Deep orange                | renow-brown         | Black<br>Blackish-brown | Black                  |
| Mercury                    | 13.6       | Common salt                  | White passing to           | Orange-yellow       |                         | Black-brown            |
| 6 Copper                   | 8.9        | Heat<br>Iron                 | yellow<br>Red brown        | 0 0                 | Brownish-black          | Black                  |
| 7 Iron                     | 7.7        | Succin. soda                 | Blue, or white             | Brown<br>Protox, 0, | Black                   | Do.                    |
|                            |            | with perox.                  | passing to blue            | Perox. black        | Black                   | 0                      |
| 3 Tin                      | 7.29       | Cor. sublim.                 | White                      | 0                   | Protox. black           | Brown                  |
| 9 Lead                     | 11.35      | Sulph. soda                  | Do.                        | White               | Perox. vellow           |                        |
| Nickel<br>Calmium          | 8.4        | Sulph. potassa?              | Do.                        | Gray-white          | Black<br>Do.            | Black                  |
| Zinc                       | 8.6<br>6.9 | Zinc                         | Do.                        | 10                  | Orange-yellow           | Orange-vellow          |
| Bismuth                    | 9.88       | Alk. carbonates<br>Water     | Do.                        | Yellow 0            | White                   | Yellowish-white        |
| Antimony                   | 6.70       | Water                        | With dilute solu-          | White from          | Black-brown             | Black-brown            |
| 5 Manganese                | 8.         | Zinc                         | tions white                | water               | Orange                  | Orange                 |
| Cobalt                     | 8.6        | Tatr. pot.                   | White<br>Brown-vellow      | 0                   | White                   | Milkiness              |
| 7 Tellurium                | 6.115      | (Water                       | Diown-yenow                | Yellow-white        | Black Blackish          | 0                      |
|                            | (8.35?     | Antunony                     | M                          | Yellow              | Diackies                |                        |
| B Arsenic                  | 5.76 }     | Nitr. lead                   | White                      |                     | Yellow                  | Yellow                 |
| Chromium                   | 5.90       | Do.                          | Green                      | Brown               | Green                   | I CHOW                 |
| 0 Molyblenum<br>1 Tungsten | 8.6        | Do.?                         | Brown                      | Deep brown          |                         | Brown                  |
| 2 Columbium                | 5.6?       | Mur. lime?                   | Dilute acids<br>Olive      |                     | Chocolate               | LACTINE.               |
| 3 Selenium                 | 4.3?       | Zinc or inf. galls           | Olive                      | Orange              |                         |                        |
|                            | 10.0       | Sulphite amm.                |                            |                     | 1                       |                        |
| 4 Osmium                   | 3          | Mercury                      |                            | Purple passing to   |                         | 1                      |
| Rhodium                    | 10.65      | Zinc?                        | 0                          | deep blue           | 0                       | 1                      |
| Iridium<br>Uranum          | 18.68      | Do. ?                        | 0                          | 0                   |                         |                        |
| Titanum                    | 9.0        | Ferropr. pot.                | Brown-red                  | Chocolate           | Brown-yellow            | 0                      |
| Cerium                     | ?          | Inf. galls.                  | Grass-green<br>Milk-white  | Red-brown           | Grass-green<br>White    | 0                      |
| Potassium                  | 0.865      | Mur. plat.                   | 0                          |                     | 0                       | 10                     |
| Sodium                     | 0.972      | { Tart. acid.                | 1                          | 0                   |                         |                        |
| 2 Lithium                  | 0.0.0      |                              | 1                          |                     |                         |                        |
| Calcium                    |            |                              |                            |                     |                         |                        |
| Barium<br>Strontium        |            |                              |                            |                     |                         |                        |
| Magnesium                  |            | 1                            |                            |                     |                         |                        |
| 1 httrium                  |            |                              |                            |                     |                         |                        |
| Aluminum                   |            |                              |                            |                     | -                       |                        |
| Thorinum                   | -          |                              | 1                          |                     |                         |                        |
| Zirconium                  |            |                              |                            |                     |                         |                        |
| 2 Silicium                 |            |                              | 1                          |                     | •                       |                        |

METAMORPHO'PSIA. (From μεταμορφώσις, a change, and ομες, sight.) Visus defiguratus. Dissigured vision. It is a defect in vision, by which persons perceive objects changed in their figures. The species are,

1. Metamorphopsia acuta, when objects appear much larger than their size.

2. Metamorphopsia diminuta, when objects appear diminished in size, arising from the same causes as the

Metamorphopsia mutans, when objects seem to be in motion: to the vertiginous and intoxicated persons, every thing seems to stagger.

4. Metamorphopsia tortuosa scu flexuosa, when ob jects appear tortuous, or bending.

5. Metamorphopsia inversa, when all objects appear inverted.

6. Metamorphopsia imaginaria, is the vision of a thing not present, as may be observed in the delirious, and in maniaes.

. Metamorphopsia from a remaining impression : it happens to those who very attentively examine objects, particularly in a great light, for some time after

perts, particularly in a great tight, for some time after to perceive the impression.

METAPE DIEM. (From μετα, after, and πους, the foot.) The metatarsus.

META PHENNEY. (From μετα, after, and φοριες, the diaphragm.) That part of the back which is behind the diaphragm.

METAPOROPOIE'SIS. (From μετα, πορος, a duct, and ποιεω, to make.) A change in the pores of the body.

METAPTO'SIS. (From μεταπιπτω, to digress.) A

change from one disease to another.

META'STASIS. (From μεθιστημι, to change, to translate.) The translation of a disease from one place to another

METARY'NORTOTO (From acramoveous) METATARSAL. Belonging to the metatarsus.

METATARSAL. Delonging to the metatarsus. METATARSAL powers. The five longitudinal bones between the tarsus and the toes; they are distinguished into the metatarsal bone of the great-toe, fore-toe, &c. METATA RSUS. (From \$\mu \tau \alpha \), after, and \$\tau \alpha \alpha \alpha \), the tarsus.) That part of the foot between the tarsus of the tarsus. and toes.

and toes.

METELLANUX. See Strychnos nux romica.

METEORISMUS. (From μετεωρος, a vapour.) 1, A dropsy of the belly, accompanied by a considerable distention from wind in the bowels.

2. A tympanitic state of the abdomen, that takes place in acute diseases suddenly and unexpectedly, as does the appearance of a meteor in the heavens.

METEOROLITE. Meteoric stone. A peculiar solid convent of earthy and metallic matters of since

METEOROLITE. Meteoric stone. A peculiar solid compound of earthy and metallic matters, of singular aspect and composition, which occasionally descends from the atmosphere; usually from the bosom of a luminous meteor.

Meteoros. (Meteoros; from  $\mu\epsilon 7a$ , and  $a\epsilon\epsilon\rho\omega$ , to elevate.) Elevated, suspended, erect, sublime, tumid. Galen expounds pains of this sort, as being those which affect the peritoneum, or other more superficial parts of the body: these are opposed to the more deep seated

METHE'GLIN. A drink prepared from honey by METHEGLIN. A drink prepared from honey by is made in the following way. Honey, one hundred weight; boiling water, enough to fill a thirty-two galon cask, or half a hogshead; stir it well for a day or two, then add yeast and ferment. Some boilt he honey in water with one ounce of hops to each gallon, for an house the high high highestic for hour or two, but this boiling hinders its fermentation.

METHEMERI'NUS. (From μετα, and ημερα, a day.)

A quotidian fever.

METHO'DIC MEDICINE. That practice which was conducted by rules, such as are taught by Galen and his followers, in opposition to the empirical practice

ME THODU'S. (From μετα, and οδος, a way.) The white, and νυμφαια, the water-lily.) The small white method, or ratio, by which any operation or cure is

METO'PION. Μετωπιον. 1. American sumach, a species of Rhus

2. A name of the bitter almond.
3. An oil, or an ointment, made by Dioscorides, which was thus called because it had galbanum in it, which was collected from a plant called Metaprum.

METO PIUM. Mετωπιον. An ointment made of galbanum. METO'PUM.

(From μετα, after, and ωψ, the eye.) The forehead. METO'SIS. A kind of amaurosis, from an excess of

short-sightednes

ME TRA. (From μητηρ, a mother.) The womb.

METRE NCHYTA. (From μητρα, the womb, and τ) γνω, to pour into.) Injections into the womb.

METRE NCHYTES. (From μητρα, the womb, and

εγχυω, to pour in.) A syringe to inject fluids into the

METRI'TIS. (From μητρα, the womb.) Inflammation of the womb.

on of the womb. See Hysteritis.

METROCE'LIS. (Metrocelis, idis. f.; from μητηρ. a mother, and κηλις, a blemish.) A mole, or mark, impressed upon the child by the mother's imagina-

METROMA'NIA. A rage for reciting verses the Acta Societatis Medicæ Havniensis, published 1779, is an account of a tertian attended with remarkable symptoms; one of which was the metro-mania, by which the patient spoke verses extempore, having never before had the least taste for poetry; when the fit was off, the patient became stupid, and remained so till the return of the paroxysm, when the poetical powers returned again.

METROPTO'SIS. (From μητρα, the uterus, and tπ7ω, to fall down.) Prolapsus uteri. The descent πιπ7ω, to fall down.)

of the uterus through the vagina.

Метропина Gia. (From μητρα, the womb, and ηγιυμι, to break out.) An excessive discharge from womb.

ME'U. See Æthusa meum. ME'UM. (From μειων, less

ME'UM. (From μειων, less: so called, according to Minshew, from its diminutive size.) See Æthusa

MEUM ATHAMANTICUM. See Æthusa mcum.

Mexico seed. See Ricinus. Mexico tea. See Chenopodium ambrosioides.

Mexico tea. See Chenopodium ambrosioides.
MEZEREON. See Daphne mezereum.
MEZE'REUM. (A word of some barbarous dialect.)

Mezereon. See Daphne mezereum.
Mezereum acetatum. Thin slices of the bark of fresh mezereon root are to be steeped for twenty-four hours in common vinegar. Some practitioners direct this application to issues, when a discharge from them cannot be encouraged by the common means. It generally appropriately appropriate this property of the common means. nerally answers this purpose very effectually in the course of one night, the pea being removed, and a small portion of the bark applied over the opening.

ee Daphne gnidium. MIA'SMA. (Mias SMA. (Miasma, tis. n.; from marro, to in-Miasma is a Greek word, importing pollution, corruption, or deflement generally; and contagion a Latin word, importing the application of such miasm or corruption to the body by the medium of touch. There is, hence, therefore, says Dr. Good, neither pa-ralletism nor antagonism, in their respective significa-tions; there is nothing that necessarily connects them either desiruptively. Bath causally either disjunctively, or conjunctively. Both equally apply to the animal and vegetable worlds, or to any source whatever of defilement or touch; and either may be predicated of the other; for we may speak correctly of the miasm of contagion, or of contagion produced by miasm. See Contagion

A species of mineral which Professor Jame son subdivides into ten sub-species, viz. mica, pinite, lepidolite, chlorite, green earth, talc, nacrite, poistone, steatite, and figure stone

Mica comes in abundance from Siberia, where it is used for window glass.

MICROCO SMIC BEZOAR. See Calculus.

MICROCOSMIC SALT. A triple salt of soda, ammonia, and phosphoric acid obtained from urine, and much

used in assays with the blow-pipe.

MICBOLEUCONYMPHE'A. (From μικρος, small, λευκος,

MICRONYMPHÆ'A. (From μικρος, small, and the water lily.) νυμφαια, the water lily.) The smaller water-lily.
MICRO'RCHIS. (From μικρος, small, and ορχις, 8
testicle.) One whose testicles are unusually small.

MICROSPHY'XIA.

XIA. (From μικρος, small, and A debility and smallness of the σφυξις, the pulse.)

(MIDDLETON, PETER, M.D. This gentleman, native of Scotland, flourished in the profession of medicine in the city of New-York about the middle of the last century, and was one of the very few medical men of this country, who, at that early period, were distinguished equally for various and profound learn-ing and great professional talents. He, with Dr. J. Bard, in 1.750, dissected a human body, and injected the blood-vessels, which was the first attempt of the kind to be found on medical record in America, and in 1767 he proffered his services for carrying into effect the establishment of a new medical school in the city of New-York, of which he was appointed first pro-tessor of Physiology and Pathology, and afterward was the instructer in Materia Medica.

In his profession he was learned and liberal, and his whole life was a practical illustration of his doctrines. He wrote an able letter on the croup, addressed to Dr. He wrote an able letter of the troup, addressed to a Richard Bayley, which was published in the Medical Repository, Volume IX. He was also author of a Medical Discourse, or Historical Inquiries into the ancient and present state of Medicine, the substance of which was delivered at the opening of the Medical School of New-York; it was published in 1769, and is an honourable specimen of his talents and attain-

This highly respectable man, for a considerable period, struggled with an impaired state of health, induced by the toils of a laborious practice, and after enduring the severest bodily suffering for more than ten months, from a stricture and scirrhous state of the pylorus, died in the city of New-York, in 1781."months, plorus, the in the city of New York, in 1997, Nuch Med. Biog. A.] MIDRIFF. See Diaphragma, MIEMITE. A mineral found at Miemo in Tuscany,

and other places. There are two kinds, the granular and prismatic

Mi'GMA. (From μεγνυω, to mix.) A confection, os ointment.

MIGRA'NA A corruption of hemicrania.

MILFOIL. See Achillea millefolium. MILIA'RIA. (From milium, millet: so called because the small vesicles upon the skin resemble milletseed.) Miliary fever. A genus of disease in the class Pyrexxe, and order Exanthemata, of Cullen, characterized by synochus; cold stage considerable: hot stage attended with anxiety and frequent sighing; perspiration of a strong and peculiar smell; eruption, pre-ceded by a sense of pricking, first on the neck and breast, of small red pimples, which in two days become white vesicles, desquamate, and are succeeded by fresh pimples. Miliary fever has been observed to affect both sexes, and persons of all ages and constitu-tions: but females, of a delicate habit, are most liable to it, particularly in child-bed. Moist variable weather is most favourable to its appearance, and it occurs most usually in the spring and autumn. It is by some said to be a contagious disease, and has been known to prevail epidemically.

Very violent symptoms, such as coma, delirium, and convulsive fits, now and then attend miliary fever, in which case it is apt to prove fatal. A numerous erup-tion indicates more danger than a scanty one. The eruption being steady is to be considered as more fa-vourable than its frequently disappearing and coming out again, and it is more favourable when the places covered with the eruption appear swelled and stretched than when they remain flaccid. According to the severity of the symptoms, and depression of spinits, is the

danger greater. See also Sudamina.

Mill'olum. (Diminutive of milium, millet.) A small tumour on the eyelids, resembling in size a millet-seed. MILITA'RIS. (From miles, a soldier: so called from its efficacy in curing fresh wounds.) See Achillea millefolium.

MILITARIS HERBA. See Achillea millefolium MI'LIUM. (From mille, a thousand. name for a sort of corn or grass, remarkable for the

hard tubercle, in size and colour resembling a milletseed. Its seat is immediately under the cuticle, so that, when pressed, the contents escape appearing of an

atheromatous nature.

MILLUM SULIS. See Lithospermum.

MILLK. Lac. A fluid secreted by peculiar glands, and designed to nourish animals in the early part of their life. It is of an opaque white colour, a mild sac-charine taste, and a slightly aromatic smell. It is separated immediately from the blood, in the breasts or udders of female animals. Man, quadrupeds, and ce-taceous animals, are the only creatures which afford milk. All other animals are destitute of the organs which secrete this fluid. Milk differs greatly in the several animals.

The following are the general Properties of animal

and human milk

Milk separates spontaneously into cream, cheese, and serum of milk; and that sooner in a warm situation serum of milk; and that sooner in a warm situation than in a cold one. In a greater temperature than that of the air, it acesces and coagulates, but more easily and quicker by the addition of acid salts, or coagulate, pants. Lime-water coagulates milk imperfectly. It is not coagulated by pure alkali; which indeed dissolves its caseous part. With carbonated alkali the caseous and cremoraceous parts of milk are changed into a liquid soap, which separates in the form of white flakes, such milk by bailing is changed into a white fakes; such milk, by boiling, is changed into a yellow and then into a brown colour. Milk, distilled to dryness, gives out an insipid water, and leaves a whitish brown extract, called the extract of malk; which, dissolved in water, makes a milk of less value. Milk fresh drawn, and often agitated in a warm place, by degrees goes into the vinous fermentation, so that alkohol may be drawn over by distillation, which is called *spirit of milk*. It succeeds quicker if yest be added to the milk. Mares' milk, as it contains the greatest quantity of the sugar of milk, is best calculated for vinous fermentation.

The Principles of milk, or its integral parts, are 1. The Aroma, or odorous volatile principle, which

flies off from fresh-drawn milk in the form of visible

2. Water, which constitutes the greatest part of 2. Water, which constitutes the greatest pair or milk. From one pound eleven ounces of water may be extracted by distillation. This water, with the sugar of milk, forms the servem of the milk.

3. Bland oil, which, from its lightness, swims on the surface of milk after standing, and forms the cream of

4. Cheese, separated by coagulating milk, falls to the bottom of the vessel, and is the animal gluten.
5. Sugar, obtained from the serum of milk by evapo-ration. It unites the caseous and butyraceous part

ration. It unites the caseous and butyraceous part with the water of the milk.

6. Some \*\*seutral \*\*salts\*\*, as the muriate of potassa and muriate of lime, which are accidental, not being found at all times, nor in every milk. These principles of milk differ widely in respect to quantity and quality, according to the diversity of the animals.

The \*\*aroma of the milk is of so different an odour, that the salts are united to the salts

that persons accustomed to the smen, and more of offsetory nerves are very sensible, can easily distinguish whether milk be that of the cow, goat, mare, ass, or human. The same may be said of the serum of the cowns. The or buman. The same may be said of the second of milk, which is properly the seat of the aroms. The serum of milk is thicker and more copious in the milk of the sheep and goat, than in that of the ass, mare, or human milk. The butter of goats' and cows' milk is easily separated, and will not again unite itself with the butter-milk. Sheep's butter is soft, and not of the consistence of that obtained from the cow and goat. consistence of that obtained from the cow and goat. Asses; marea; and human butter, can only be separated in the form of cream; which cream, by the assistance of heat, is with case again united to the milk from which it is separated. The cheese of cows' and goats' milk is solid and elastic, that from asses and mares soft, and that from sheep's milk almost as soft as gluten. It is never separated spontaneously from the milk of a woman but only by art, and is wholly fluid. The server shounds most in human assess' and fluid. The serum abounds most in human, asses', and mares' milk. The milk of the cow and goat contain less, and that of the sheen least of all. The snogr of

abundance of its seeds.) The name of a genus of plants in the Linnean system. Class, Triandria. Order, Digynia.

Order, Digynia. When milk is left to spontaneous decomposition, at a due temperature, it is found to be capable of passing

asses', and somewhat less in the human milk.

When milk is left to spontaneous decomposition, at
a due temperature, it is found to be capable of passing through the vinous, acetous, and putrefactive fermen-tations. It appears, however, probably on account of the small quantity of alkohol it affords, that the vinous fermentation lasts a very short time, and can scarcely be made to take place in every part of the fluid at once, by the addition of any ferment. This seems to be the reason why the Tartars, who make a fermented liquor, or wine, from mares' milk, called koumnss, sucliquot, or wine, from mares' milk, called koumiss, succeed by using large quantities at a time, and agitating it very frequently. They add, as a ferment, a sixth part of water, and an eighth part of the sourcest cow's milk they can get, or a smaller portion of koumiss already prepared: cover the vessel with a thick cloth, and let it stand in a moderate warmth for 24 hours: and let it stand in a house-rate warmen for 22 house-then beat it with a stick, to mix the thicker and thinner parts, which have separated; let it stand again 24 hours, in a high narrow vessel, and repeat the heating hours, in a high narrow vessel, and repeat the ficating, till the liquor is perfectly homogeneous. This liquor will keep some months, in close vessels, and a cold place; but must be well mixed by beating, or shaking, every time it is used. They sometimes extract a spirit from it by distillation. The Arabs prepare a similar liquor by the name of leban, and the Turks by that of yaourt. Eaton informs us, that, when properly prepared, it may be left to stand till it becomes quite dry: and in this state it is kept in bags, and mixed with water when wanted for use

water when wanted for use.

The saccharine substance, upon which the fermenting property of milk depends, is held in solution by the whey, which remains after the separation of the curd in making cheese. This is separated by evaporation in the large way, for pharmaceutical purposes, in various parts of Switzerland. When the whey has been evaporated by heat, to the consistence of honey, it is poured into proper moulds, and exposed to dry in the sun. If this crude sugar of milk be dissolved in water, clarified with whites of eggs, and evaporated to the consistence of syrup, white crystals, in the form of rhomboldal parallelopipedons, are obtained.

Sugar of milk has a faint saccharine taste, and is soluble in three or four parts of water. It yields by

soluble in three or four parts of water. It yields by distillation the same products that other sugars do, only in somewhat different proportions. It is remarkaonly insomewhat different proportions. It is remarka-ble, however, that the empyreumatic oil has a smell resembling flowers of benzoin. It contains an acid frequently called the saccolactic; but as it is common to all mucilaginous substances, it is more generally termed mucic. See Mucic acid.

| mile, according to Delection, Consists of |        |
|---|--------|
| Water                                     | 928.75 |
| Curd, with a little cream                 | 28.00  |
| Sugar of milk                             | 35.00  |
| Muriate of potassa                        | 1.70   |
| Phosphate of potassa                      | 0.25   |
| Lactic acid, acetate of potassa, with     | 6.00   |
| Earthy phosphates                         | 0.30   |
|   |        |

1000.00

MILK, ASSES'. Asses' milk has a very strong resemblance to human milk in colour, smell, and consistence. When left at rest for a sufficient time, a cream forms upon its surface, but by no means in such abundance as on women's milk. Asses' milk differs from cows' milk, in its cream being less abundant and more insipid; in its containing less curd; and in its

more insipid; in its containing less curd; and in its possessing a greater proportion of sugar.

Milk, cows'. The nulk of women, mares, and asses, nearly agree in their qualities; that of cows, goats, and sheep, possess properties rather different. Of these, cows' milk approaches nearest to that yielded by the female breast, but differs very much in respect to the aroma; it contains a larger proportion of cream and cheese, and less serum than human milk; also less sugar than mares' and asses' will. milk.

Cows' milk forms a very essential part of human sustenance, being adapted to every state and age of the body; but particularly to infants, after being

Milk, EWES'. This resembles almost precisely that of the cow; its cream, however, is more abundant,

and yields a butter not so consistent as cows' milk butter. It makes excellent cheese.

butter. It makes excent in the cows, which greater consistence: like that milk, it throws up abundance of tream, from which butter is easily ob-

MILE, HUMAN. The white, sweetish fluid, se by the glandular fabric of the breasts of women. The white, sweetish fluid, secreted by the glandular fabric of the breasts of women. The secretory organ is constituted by the great conglomerate glands situated in the fat of both breasts, above the musculus pectoralis major. From each acinus, composing a mammary gland, there arises a radical of a lattiferous or galactiferous duct. All these canals, gradually converging, are terminated without anastomosis, in the papille of the breasts, by many orifices, which, upon pressure, pour forth milk. The smell of fresh-drawn milk is peculiar, animal, fatuous, and not disagreeable. Its taste sweetish, soft, bland, agreeable. The specific gravity is greater than that of water, but it is lighter than blood; hence it swims on it. Its colour is white and, opaque. In consistence it is oily and aqueous. A drop, put on the nail, flows slowly down, if the milk be good.

Time of Secretion.—The milk most frequently be-

Time of Secretion .- The milk most frequently begins to be secreted in the last months of pregnancy but, on the third day after delivery, a serous milk, called Colostrum, is separated; and at length pure milk is secreted very copiously into the breasts, that, from its abundance often spontaneously drops from

the nipples.

If the secretion of milk be daily promoted by suck-If the secretion of this be daily promoted by such-ding an lindant, it often continues many years, unless a fresh pregnancy supervene. The quantity sually secreted within twenty-four hours, by nurses, is va-rious, according as the nourishment may be more or less chylous. It appears that not more than two pounds of milk are obtained from five or six pounds of meat. But there have been known nurses who have given from their breasts two, or even more than three pounds, in addition to that which their child has sucked. That the origin of the milk is derived from chyle carried with the blood of the mammary arteries into the glandular fabric of the breasts, is evident from its more copious secretion a little after meals; its diminished secretion from fasting; from the smell and taste of food or medicines in the secreted milk; and, lastly, from its occasional spontaneous accsence; for humours perfectly animal become putrid.

The milk of a woman differs: 1. In respect to food.

The milk of a woman who suckles, living upon vegetoanimal food, never acesces nor coagulates spontaneously, although exposed for many weeks to the heat of a furnace. But it evaporates gradually in an open vessel, and the last drop continues thin, sweet, and bland. The reason appears to be, that the caseous and cremoraceous parts cohere together by means of the sugar, more intimately than in the milk of animals, and do not so easily separate; hence its acescence is prevented. It does accese, if mixed or boiled with vinegar, juice of lemons, supertartrate of potassa, dilute much, mixed and more superfact of potassa, with vinegar, junce of tentons, superintuate or potassa, adilute sulphuric acid, or with the human stomach. It is congulated by the acid of salt, or nitre, and by an acid gastric juice of the infant; for infants often vomit up the congulated milk of the nurse. The milk of a up the coagulated milk of the nurse. The milk of a suckling woman, who lives upon vegetable food only, like cows' milk, easily and of its own accord acesces, and is acted upon by all coagulating substances like the milk of animals. 2. In respect of the time of digestion. During the first hours of digestion, the chyte is crude, and the milk leas subacted; but towards the twelfth hour after eating, the chyle is changed into blood, and then the milk becomes yellowish and naucous, and is spit out by the infant. Hence the best time for giving suck is about the fourth or fifth hour after meals. 3. In respect of the time after delivery. The milk secreted immediately after delivery is serous, nurses the howels of the infant, and is called colorpurges the bowels of the infant, and is called colostrum. But in the following days it becomes chicker and more pure, and the longer a nurse suckles, the thicker the milk is secreted; thus new-born infants cannot retain the milk of a nurse who has given suck

also is purged; and, lastly, children affected with tormina of the bowels, arising from acids, are often cured by giving the nurse animal food. 5. In respect of the affections of the mind. There are frequent examples of infants being seized with convulsions, from sucking infants being seized with convulsions, from sucking mothers irritated by anger. An infant of one year old, while he sucked milk from his enraged mother, on a sudden was seized with a fatal hamorrhage, and died. Infants at the breast in a short time pine away, if the nurse be afficited with grievous care; and there are also infants who, after every coition of the mother, or even if she menstroade, are taken ill.

The use of the mother's milk is, I. It affords the natural aliment to the new-born infant, as milk differs little from chyle. Those children are the strongest who are not provided in the property of the coloritation of the rejected of the relationship of the relation of the rejected of the relationship of the relation of the relatio

The colostrum should not be rejected; for it relaxes the bowels, which, in new-born infants, ought to be open, to clear them of the meconium. 3. Lactation the bowels, which, in new-born maints, ought to be open, to clear them of the meconium. 3. Lactation defends the mother from a dangerous reflux of the milk into the blood, whence lacteal metastasis, and leucorrhea, are so frequent in lying-in women, who do not give suck. The motion of the milk also being hastened through the breast by the sucking of the child, prevents the very common induration of the breast, which arises in consequence of the milk being stagnated. 4. Men may live upon milk, unless they have been accustomed to the drinking of wine. For all nations, the Japanese alone excepted, use milk, and

many live upon it alone.

Milk, Marks'. This is thinner than that of the cdw, but scarcely so thin as human milk. Its cream cannot be converted into butter by agitation. The

whey contains sugar.

whey contains sugar.

MILE-BLOTCHES. An eruption of white vesicles, which assume a dark colour, resembling the blackening of the small-pox, and are succeeded by scabs producing an ichorous matter, attended with considerable itching. It generally appears on the forehead and scalp, extending half over the face, and at times even proceeding farther. The period of its attack is the time of teething; and it is probably the same disease as the crustal paten. as the crusta lactea.

as the crusta lactea.

Milk-fever. See Puerperal fever.

Milk-teeth. See Teeth.

Milk-thistle. See Corduus marianus.

MILK-VETCH. See Astragalus excapus

MILK-WORT. See Polygala vulgaris.

Milk-wort, ratite-snake root. See Polygala senega.

MILLEFO'LIUM. (From mille, a thousand, and folium, a leaf: named from its numerous leaves.) See

Achillas millefolium. Achillea millefolium.

MILLEMO'REIA. (From mille, a thousand, and morbus, a disease: so called from its use in many diseases.)

See Scrophularia nodosu.

MILLE'PEDE. See Oniscus asellus.
MILLE'PES. (From mille, a thousand, and pes, a foot: named from their numerous feet.) See Oniscus asellus

[MILLER, EDWARD, M.D., was a native of Dover in the state of Delaware. He was born on the 9th of May, 1760. Dr. Miller, in the year 1784, commenced the practice of medicine in the village of Frederica, a short distance from his native town, in Delaware; but soon afterward removed to Somerset county, in Mary-land. Here also his stay was short. In 1786 he returned to Dover, and entered on the practice of his profession in his native place.

In 1796 he removed from Dover to the city of New-In 1796 he removed from Dover to the city of New-York. Here he soon conciliated the esteem and confi-dence of his medical brethren; and notwithstanding the many disadvantages under which a stranger engages in the competition for medical practice in a great city, he succeeded beyond his most sanguine expectations. His business, in a few months, became such as to afford him an ample support, and continued to become more and more extensive until his death.

and more extensive union ms delan.

In a few weeks after his removal to New-York, Dr.
Miller, in connexion with his friends, Dr. Mitchill and
the late Dr. Elihu H. Smith, formed the plan of a periodical publication to be devoted to medical swence. cannot retain the mix of a nurse who has given ack for a twelvemonth, on account of its spissitude. 4. In respect of food and medicines. Thus, if a nurse targatic, the milk becomes highly impregnated with its odour, and is disagreeable. If she indulge too freely in the use of wine or beer, the infant becomes iil. From giving a purging medicine to a nurse, the child and medical history of our country. No work of a 70 similar kind had ever appeared in the United States. I tion, or is not produced by an organized body, belongs Its influence in exciting and recording medical inquiries, and in improving medical science, soon became apparent. It led to the establishment of other similar works in different parts of our own country as well as of Europe; and may thus, with great truth, be said to have contributed more largely, than any other single publication, to that taste for medical investigation and improvement, which has been for a number of years so conspicuously and rapidly advancing on this side of the Atlantic. Dr. Miller lived to see the fifteenth volume of this work nearly brought to a close, and rejoiced in the generous competition which it had been so evi-

dently the means c exciting.

At the close of the season of 1805, in his official character as resident physician, he addressed to his excellency Governor Lewis a report of the rise, progress, and termination of the yellow fever. To this detail he added an exhibition and defence of the doctrine concerning the origin of yellow fever, which, after much inquiry and long experience, he had adopted. This report was shortly afterward laid before the public; and has been pronounced by good judges to be one of the most luminous, foreible, comprehensive, and satisfactory defences of the doctrine which it supports, that ever appeared, within the same compass, in

any language.

He fell a victim to an inflammatory attack upon the lungs, which, after symptoms of convalescence, de-generated into a typhus fever, which put an end to his valuable life on the 17th day of March, 1812, in the

52d year of his age.

Dr. Miller's published writings were not numerous.

Dr. Miller's published writings were not numerous. A few of them were originally printed in detached pamphlets; but the greater part first appeared in the Medical Repository. Since his decease they have been collected and reprinted in one large octave volume.

The moral and social qualities of Dr. Miller were werthy of no less praise than his talents, learning, and professional skill. His humanity and practical beneficence were no less conspicuous. These were manifested throughout his professional life, and especially in his attendance on the poor and friendless, to an extent truly rare. extent truly rare.

His delicacy in conversation has been seldom equalled, perhaps never exceeded. Nothing ever escaped from his lips, even in his most unreserved moments, to which the most refined and scrupulous might not listen

without offence.

Nor was his temperance less conspicuous than his delicacy. He not only avoided the use of ardent spirits, with a scrupulousness which to some might appear excessive, but he was unusually sparing, and even abstemious, in the use of every kind of drink stronger than water. He rejected the use of tobacco in every form, not only as an odious and unhealthy practice, but also as a most insidious provocation to the love of drinking.—Thach. Med. Biog. A.]

MILLET. See Panicum miliaceum.
Millet, Indian. See Panicum italicum.
MILL-MOUNTAIN. See Linum catharticum.

MILPHO'SIS. Μιλφωσις. A baldness of the eyebrows.

M'LTOS. Miltos. Red-lead.
MILTWASTE. See Asplenium ceterach.
MILTWASTE. (From milta, the Spanish for the spleen: so called from its supposed virtues in diseases of the spleen.) The herb archangel. See Angelica

archangelica. MIMO'SA.

(From mimus, an actor, or imitator, meaning a sort of imitative plant, the motions of which mimic the sensibility of animal life.) The name of a genus of plants in the Linnean system. Class, Polygamia; Order, Monaccia. The sensitive plant.

Mimosa Catrichu. The former name of the tree

Mimosa Nilotica. See Acacia catechu.

Mimosa Nilotica. See Acacia vera.

Mimosa Senegal. The systematic name of the MIMOSA SENEGAL. The systematic name of the tree from which the gum senegal exudes. The gum is brought from the country through which the river Senegal runs, in loose or single drops, much larger than gum-arabic. It is similar in virtue and quality to the gum-arabic, and the gum which exudes in this climate from the cherry-tree. See Acacia vera.

Mindererus spirit. See Ammoniæ acetatis liquor.

MINERAL. (Mineralie; from mina. a mine of

(Mineralie; from mina, a mine of MINERAL. metal.) A substance which does not possess organiza-

to the division of the production of nature called ni-nerals. Among this varied class of materials, which require the attention of the chemist and manufacturer, many are compounded of such principles, and formed under such circumstances and situations in the earth, that it is difficult to distinguish them without having recourse to the test of experiment; several are formed with considerable regularity as to the proportion of their principle, their frature, their colour, specific gravity, and figure of crystallization.

Mineral bodies which enter into the composition of the globe, are classed by mineralogists under four heads:—1. Earths. 2. Salts. 3. Inflammable fossils; and, 4. Metals and their ores. Under the term earths, and do not burn when heated with contact of air.

Under the second, salts, or those saline substances which melt in water and do not burn, they require, according to Kirwan, less than two hundred times their weight of water to dissolve them.

By inflammable fossils are to be understood all those minerals not soluble in water, and exhibiting a flame more or less evident when exposed to fire in contact

with air.

The fourth class, or ores, are compound bodies. Na-ture has bestowed their proper metallic appearance on ture has bestowed their proper metainic appearance or some substances, and when this is the case, or they are alloyed with other metals, or semi-metals, they are called native metals. But such as are distinguished, as they commonly are, in mines, in combination with some other unmetallic substances, are said to be mine-ralized. The substance that sets them in that state, is called the mineralizer, and the compound of both an ore. For example, in the common ore of copper, this

ore. For example, in the common ore of copper, this metal is found oxidized, and the oxide combined with sulphur. The copper may be considered as mineral ized with oxygen and sulphur, and the compound of the three bodies forms an ore of copper.

[MINERALS, ARRANGEMENT OF. The systematic arrangement of minerals by writers on the subject differs very materially. The only elementary work on mineralogy published in this country is by Parker Cleaveland, professor in Bowdoin College, State of Maine. As it is a work highly creditable to the author, and much appropred as a standard work, we give a tabuand much approved as a standard work, we give a tabu-

lar view of his arrangement.

## TABULAR VIEW.\*

CLASS. 1.—Substances not metallic, composed entirely, or in part, of an Acid.

This class contains four orders. In the first order, the acid is free or not combined; in the second, it is the actors free or not comment, in the second, recombined with an alkali; in the third, with an earth or earths; and in the fourth, with both an alkali and an earth. Hence the presence of an acid, provided it be not united to a metallic base, characterizes this class.

ORDER I.—Acids not combined.

The base of the acid determines the genus. All the species in this order have oxygen, as a common ingredient, so combined with a base, as to produce an acid GENUS I All the

SPEC. 1. Sulphuric acid. 2. Sulphurous acid

GENUS II.

SPEC. 1. Muriatic acid. GENUS III.

1. Carbonic acid. GENUS IV.

1. Boracic acid.
ORDER II.—Alkaline salts.

These salts are composed of an alkali, united to an acid. Hence an alkali, so combined as to form a salt, characterizes this order. Each alkali designates a genus.

GENUS I.-AMMONIA.

Spec. 1. Sulphate of Ammonia.
2. Muriate of Ammonia.
GENUS II.—POTASH.

1. Nitrate of Potash.

\*In the tabular view, rubspecies are distinguished from euricies by their position in the column. A number of species, recently discovered, and concerning which little is yet known, are alphabetically arranged in an appendix to the earthy class. Those species which have never been analyzed, are marked by an asterisk. Those species which have never been analyzed, are marked by an asterisk. Those species which have never been analyzed, are marked by an asterisk. Those in crystals, flor oven with a crystalline structure.

| 12  |                                   | MiN                |  |  |  |  |  |  |
|---|-----------------------------------|--------------------|--|--|--|--|--|--|
| MIN   |                                   |                    |  |  |  |  |  |  |
| GENUS III.—S  | ODA.                              |                    | SUBSPECIES AND VARIETIES.                    |  |  |  |  |  |
| Spec. 1. Sulphate of Soda.                                  |                                   | SPEC               | Marl.  |  |  |  |  |  |
| 2. Muriate of Soda. 3. Carbonate of Soda.                   |                                   |                    | indurated<br>common                          |  |  |  |  |  |
| 4. Borate of Soda.  | -                                 |                    | Bituminous marlite.                          |  |  |  |  |  |
| ORDER III.—Ear  | thy Salts.                        | 8. Arrago          | nite.  |  |  |  |  |  |
| These consist of an earth, or acid. Hence an earth, so comb | ined as to form a salt.           | 0, 2222            | fibrous<br>coralloidal                       |  |  |  |  |  |
| characterizes this order. Each                              | genus is determined by            | n Cilicent         | Rorate of Lime.                              |  |  |  |  |  |
| the earth it contains.                                      | - 1                               |                    |  |  |  |  |  |  |
| GENUS I.—Be   | PRCIES                            |                    | NUS IV.—MAGNESIA.                            |  |  |  |  |  |
|   | AND VARIETIES.                    |                    |  |  |  |  |  |  |
| Spec. 1. Sulphate of Barytes.                               | lamellar                          | 3 Borate           | of Magnesia.                                 |  |  |  |  |  |
|   | columnar                          | 4. Fluate          | NUS V.—ALUMINE.                              |  |  |  |  |  |
|   | radiated<br>fibrous               |                    | C Alumina                                    |  |  |  |  |  |
|   | concreted                         | CONTRACTOR TAX     | calle with an alkilline and carried          |  |  |  |  |  |
|   | granular                          | 2. Fluate          | ne sulphate of Alumine. of Soda and Alumine. |  |  |  |  |  |
|   | compact<br>earthy                 | 3. Glaube          | erite.                                       |  |  |  |  |  |
| -   | fetid                             | CLASS II           | which belong to this class, are com-         |  |  |  |  |  |
| 2. Carbonate of Barytes.                                    | OMTTAN                            | posed chiefly of   | f earths, combined with each other:          |  |  |  |  |  |
| GENUS II.—STR   |                                   | they frequently    | COMPANIE SOME MECANIST CHILD                 |  |  |  |  |  |
|   | Ionatea                           | times an alkali,   | Of double                                    |  |  |  |  |  |
|   | fibrous<br>calcareous             | lex and fluor-     | SPEC. 1. Topaz.                              |  |  |  |  |  |
| 2. Carbonate of Strontia                                    | ın.                               | ic acid.           | Pyonite. 2. Sapphire.                        |  |  |  |  |  |
| CUNITY III - 1.1  | ME.                               |                    | perfect                                      |  |  |  |  |  |
| SPEC. 1. Arseniate of Lime. 2. Nitrate of Lime.             |                                   | 1                  | blue<br>violet                               |  |  |  |  |  |
| 3. Phosphate of Lime.                                       | America                           | Alumine            | red  |  |  |  |  |  |
|   | Apatite. Asparagus stone.         | nearly pure.       | yellow                                       |  |  |  |  |  |
|   | fibrous                           |                    | limpid<br>Corundum.                          |  |  |  |  |  |
|   | amorphous                         |                    | Adamantine spra.                             |  |  |  |  |  |
| 4. Fluate of Lime.  | siliceous                         |                    | Emery. 3. Disaspore.                         |  |  |  |  |  |
| T. KIUGOO OL ZAMIO  | Fluor spar.                       | Alumine and water. | 4. Wavellite.                                |  |  |  |  |  |
|   | compact<br>earthy                 | Alumine and        | 5. Spinelle.                                 |  |  |  |  |  |
|   | argillaceous                      | magnesia.          | Ruby.<br>Ceylanite.                          |  |  |  |  |  |
| 5. Sulphate of Lime.  | Calanita                          |                    | 6. Fibrolite.                                |  |  |  |  |  |
|   | Selenite.                         | Alumine and        | 7. Cyanite.                                  |  |  |  |  |  |
|   | Gypsum.                           | Alumine, si- §     | 8. Staurotide.                               |  |  |  |  |  |
|   | fibrous<br>granular               | lex and lime.      | 9. Chrysoberyl.                              |  |  |  |  |  |
|   | compact                           | Alumine, si-       | 10. Gahnite.                                 |  |  |  |  |  |
|   | branchy<br>snowy                  | lex and zinc. (    | 11. Gadolinite.                              |  |  |  |  |  |
|   | earthy                            | Zirconia and §     | 12. Zircon:                                  |  |  |  |  |  |
|   | Plaster stone.                    | silex.             | Jargon,                                      |  |  |  |  |  |
| 6. Anhydrous Sulphate                                       | of Lime.                          |                    | Hyacinth                                     |  |  |  |  |  |
|   | compact                           |                    | 13. Quartz.                                  |  |  |  |  |  |
| T. C. I CT inc.   | silico-anhydrous                  |                    | limpid                                       |  |  |  |  |  |
| 7. Carbonate of Lime.                                       | calcareous spar                   |                    | smoky  |  |  |  |  |  |
|   | crystallized                      |                    | yellow<br>blue                               |  |  |  |  |  |
|   | laminated<br>granular             |                    | rose red *                                   |  |  |  |  |  |
|   | fibrous                           |                    | irrsed<br>aventurine                         |  |  |  |  |  |
|   | compact<br>coarse grained         |                    | milky  |  |  |  |  |  |
|   | Chalk.                            |                    | greasy<br>radiated                           |  |  |  |  |  |
|   | Agaric Mineral.<br>Fossil Farina. |                    | tabular                                      |  |  |  |  |  |
|   | concreted                         |                    | granular                                     |  |  |  |  |  |
|   | Pisolite.                         |                    | pseudomorphous                               |  |  |  |  |  |
|   | Oolite.<br>calcareous sinter      |                    | Amethyst.                                    |  |  |  |  |  |
|   | Tufa.                             |                    | Prase.<br>ferruginous                        |  |  |  |  |  |
|   | Argentine.<br>Silvery chalk.      |                    | yellow                                       |  |  |  |  |  |
|   | magnesian                         | 1                  | red  |  |  |  |  |  |
|   | common                            |                    | greenish<br>fetid                            |  |  |  |  |  |
|   | Dolomite.                         | -                  | Cat's eye.                                   |  |  |  |  |  |
|   | Madreporite.                      | Silex nearly (     | Chalcedony.                                  |  |  |  |  |  |
|   | Calp.                             | pure.              | Cacholong                                    |  |  |  |  |  |
|   | fetid<br>bituminous               | -                  | Carnelian.                                   |  |  |  |  |  |
|   | ferruginous                       |                    | Sardonyx.<br>Plasma.                         |  |  |  |  |  |
|   | Brown spar.                       | 1                  | rasua.                                       |  |  |  |  |  |
| 99  |                                   |                    |  |  |  |  |  |  |

1 B

|                            | MIN                                |                               | MIN                                |  |
|----------------------------|------------------------------------|-------------------------------|------------------------------------|--|
|                            | BUBSPECIES                         |                               | SUBSPE                             | CIES   |
|                            | AND VARIETIES.                     | 1                             | AN                                 | D VARIETIES:   |
| 1                          | Hyalite.                           | SP                            | 48. Prehnite.                      |  |
| 1                          | Heliotrope.                        |                               | 48. Prennite.                      | crystallized   |
|                            | Chrysoprase<br>Opal.               |                               |                                    | Koupholite.  |
|                            | precious                           |                               | 1                                  | fibrous  |
|                            | common                             | 1                             | 49. Ædelite.                       |  |
|                            | Hydrophane.                        |                               | 50. Stilbite.<br>51. Zeolite.      |  |
|                            | Girasole.<br>Semi-opal.            | Silex, alu-<br>mine, lime,    | 51. Zeolite.                       | mealy  |
|                            | Flint.                             | mine, lime,                   |                                    | mealy<br>Crocalite.  |
|                            | swimming                           | allu water.                   |                                    | Needlestone.   |
|                            | Hornstone.                         |                               | 52. *Laumonite<br>53. *Melilite.   | e.   |
|                            | Silicicalce. Buhrstone.            | Silex, alu-                   | oo. Biennie.                       |  |
|                            | Jasper.                            | mine, soda,                   | 54. Sodalite.                      |  |
|                            | common                             | mine, soda,<br>and muriatic   | Jr. Bouante.                       |  |
| 1                          | striped                            | acid.                         | 55. Natrolite.                     |  |
| 1                          | SPEC. 14. Tripoli.                 | Silex, alu-                   | 56. Analcime.                      |  |
| r                          | 15. Porcellanite.                  | mine, alkali, {               | 57. Bildstein.<br>58. Nacrite.     |  |
|                            | 16. Siliceous Slate.               | and water.                    | 58. Nacrite.                       |  |
|                            | Basanite.                          |                               | 59. Chabasie.                      |  |
|                            | 17. Petrosilex.<br>18. Clinkstone. | Silex, lime, and cerium.      | 60. Allenite.                      |  |
|                            | 19. Pumice.                        | Silex, lime,                  | 61. Yenite.                        |  |
|                            | 20. Obsidian.                      | and iron.                     |                                    |  |
| 199                        | vitreous                           | Silex, lime,                  | 62. Schaalstein<br>63. Ichthyophtl | halmite  |
|                            | Pearlstone.                        | and water.                    | 05. 1chuiyophu                     |  |
|                            | 21. Pitchstone.<br>22. Spodumen.   | Silex, bary-<br>tes, alumine, | 64. Harmotom                       | e.   |
|                            | 23. Lepidolite.                    | and water.                    |                                    |  |
| Silex, alu-                | 24. Mica.                          | 1 . (                         | 65. Chrysolite.                    | попинан  |
| mine, and al-              | laminated<br>lamellar              | Magnesia and silex.           |                                    | Olivine.   |
| wair.                      | prismatic                          | and suca.                     | 66. Labrador S                     | stone.   |
|                            | 25. Leucite.                       | 1                             | 67. Tremolite.                     | common   |
|                            | 26. Fettstein.                     | 1                             |                                    | fibrous  |
|                            | 27. Lapis Lazuli.<br>Lazulite.     |                               |                                    | Baikalite.   |
|                            | 28. Schor.                         |                               | 68. Asbestus.                      |  |
|                            | common                             | Silex, mag-                   |                                    | Amianthus.   |
|                            | Tourmaline. Indicolite.            | nesia,& lime.                 |                                    | Mountain Cork.   |
|                            | Rubellite.                         |                               |                                    | ligniform  |
|                            | 29. Andaluzite.                    |                               |                                    | compact  |
| Ì                          | 30. Feldspar.                      |                               | 69. Diopside.                      |  |
|                            | common<br>Adularia.                |                               | 70. Sahlite.                       | de.  |
|                            | onalescent                         | 1                             | 71. Amianthoi<br>72. Augite.       |  |
| Giller also                | aventurine                         |                               |                                    | Consolite  |
| Silex, alu-<br>mine, lime, | Petuntze.                          | 1                             | 73. Hornblend                      | Coccolite.   |
| and alkali.                | granular<br>compact                |                               | 20. 110111111111                   | amenta .   |
|                            | 31. Jade.                          |                               |                                    | Basaltic   |
| -                          | Nephrite.                          | Cile                          |                                    | lamellar<br>fibrous  |
|                            | Saussurite. Axestone.              | Silex,magne-<br>sia, alumine, |                                    | slaty  |
| }                          | 32. Emerald.                       | and lime.                     | Act                                | tynolite.  |
| Silex, alu-<br>mine, and   | precious                           |                               |                                    | common   |
| glucine.                   | Beryl.                             |                               | 74. Diallage.                      | acicular   |
| Biderie.                   | 33. Euclase.<br>34. Basalt.        |                               | s.z. zranosc.                      | granular   |
|                            | columnar                           | 1                             |                                    | resplendent  |
|                            | tabular                            |                               | 75. *Macle.                        | Bronzite.  |
|                            | globular                           | 1                             | 76. Native Ma                      | agnesia.   |
| - 1                        | amorphous 35. *Wacks.              |                               | 77. Magnesite                      | E.   |
|                            | 36. Dipyre.<br>37. Scapolite.      |                               |                                    | Keffekil.  |
|                            | 37. Scapolite.                     | 1                             | 78. Serpentine                     | Argillo-murite.  |
| 1                          | 38. wernerite.                     | 1 1                           | Tot Sur persone                    | precious   |
|                            | 39. Axinite.<br>40. Garnet.        | 1                             |                                    | common   |
|                            | precious                           |                               | 79. Steatite.                      | common   |
|                            | Pyrope.                            |                               |                                    | Potstone.  |
| Silex, alu-                | common<br>Melanite.                | Silex, magne-                 | 80. Talc.                          |  |
| mine, and                  | manganesian                        | sia, and alu-{                |                                    | c mmon<br>indurated  |
| lime.                      | 41. Aplome.                        | 133310                        | 81. Chlorite.                      | A STATE OF THE STA |
|                            | 42. Epidote.                       |                               | OAT OHIOTIGE                       | сонивоп  |
|                            | Zoisite.<br>Skorza.                |                               |                                    | slaty  |
|                            | manganesian                        |                               |                                    | foliated<br>Green earth.   |
|                            | 43. Cinnamon Stone.                | 1                             | 82. Sommite.                       |  |
|                            | 44. Allochroite.<br>45. Idocrase.  | Silex & alu-                  | 83. Anthophy                       | llite.   |
|                            | 45. Idocrase.                      | mine.                         | 84. Pinite.                        |  |
|                            |                                    |                               |                                    | / 73   |

|           | 1                                     | MIN                            | MIN                             |                              |
|-----------|---------------------------------------|--------------------------------|---------------------------------|------------------------------|
|           |                                       | SUBSPECIES                     |                                 | PECIES                       |
| Spgc. 85. | Argillaceous Sl.                      | ate. AND VARIETIES.            | GENUS IV —MEI                   | AND VARIETIES.               |
|           |                                       | Argillite.                     | Spec. 1. Native Mercury.        | CORI.                        |
|           |                                       | Shale.<br>Novaculite.          | 2. Argental Mercury.            |                              |
|           |                                       | Aluminous Slate.               | 3. Sulphuret of Mercury.        | common                       |
| 86.       | Claystone.                            | graphic                        | L.s.                            | fibrous                      |
| 87.       | Clay.                                 |                                | 4. Muriate of Mercury.          | uminous                      |
|           |                                       | Native Argill. Collyrite.      | GENUS V.—CO                     | PPER.                        |
|           |                                       | Kaolin.                        | SPEC. 1. Native Copper.         |                              |
|           |                                       | Cimolite.<br>adhesive          | 2. Sulphuret of Copper.         | pseudomorphou                |
|           |                                       | Potter's .                     | 3. Pyritous Copper.             | ricanted                     |
|           | 1                                     | Lithemarge.<br>Fuller's Earth. | 4. Gray Copper.                 | riegated                     |
|           |                                       | Bole.                          |                                 | enical<br>timonial           |
|           |                                       | Reddle.<br>Yellow Earth.       | 5. Red Oxide of Copper.         | monai                        |
| 89        | Alum-stone.                           | Umber.                         |                                 | foliated<br>capillary        |
|           | Appendix.                             |                                |                                 | compact                      |
| 80.       | *Bergmanite.                          |                                | fer<br>6. Azure Carbonate of Co | ruginous                     |
| 91.       | *Chusite. *Fuscite. *Gabronite.       |                                |                                 | earthy                       |
| 92.       | * Gabronite. *Hatiyene.               |                                | 7. Green Carbonate of C         | opper.<br>fibrous            |
| 94.       | *Iolite.                              |                                |                                 | compact                      |
| 95.       | *Petalite.                            |                                | Con                             | earthy<br>ruginous           |
| 97.       | *Pseudo-sommit<br>*Sideroclepte.      | e.                             | 8. Dioptase.                    | ruginous                     |
| 98.       | *Spinellane.                          |                                | 9. Muriate of Copper.           | condr                        |
| 99.       | *Spinthere.<br>CLASS III              | -Combustibles.                 | 10. Sulphate of Copper.         | sandy                        |
| Spec. 1.  | Hydrogen Gas.                         |                                | 11. Phosphate of Copper.        |                              |
|           |                                       | carburetted<br>sulphuretted    | 12. Arseniate of Copper.        | obtuse octaedra/             |
|           | Sulphur.                              |                                |                                 | acute octaedral<br>foliated  |
| 3.        | Bitumen.                              | Naptha.                        |                                 | prismatic                    |
|           |                                       | Petrolium.                     | for                             | fibrous                      |
|           |                                       | Maltha.<br>elastic             | GENUS VI.—IR                    | ruginous                     |
|           |                                       | Asphaltum.                     | Spec. 1. Native Iron.           |                              |
| 4.        | Amber.                                | Retinasphaltum.                | 2. Arsenical Iron.              | entiferous                   |
|           | Diamond. Anthracite.                  |                                | 3. Sulphuret of Iron.           |                              |
| 0.        | Allinacite.                           | slaty                          |                                 | common<br>radiated           |
|           |                                       | granular<br>conchoidal         |                                 | hepatic                      |
|           |                                       | columnar                       |                                 | ignetic'<br>senical          |
| 7.        | Graphite.                             | foliated                       | 4. Magnetic Oxide of Iron       | n.                           |
|           |                                       | granular                       |                                 | Native magnet.<br>Iron sand. |
| 8.        | Coal.                                 | connol                         | 5. Specular Oxide of Iron       | 1.                           |
|           |                                       | cannel<br>slaty                | 6. Red Oxide of Iron.           | caceous                      |
| 9.        | Lignite.                              | coarse                         |                                 | scaly                        |
|           | 2005 10000                            | Jet.                           |                                 | Hematite.                    |
|           |                                       | brittle<br>Bituminous Wood.    | 7 Brown Oxide of Iron.          | ochrey                       |
|           |                                       | brown                          | Diown Oxide of Iron.            | scaly                        |
| 10.       | Peat.                                 | earthy                         |                                 | Hematite.                    |
| 2.01      |                                       | fibrous                        |                                 | compact                      |
|           | CLASS I                               | Compact<br>V.—Ores.            | 8. Argillaceous Oxide of        | Iron. , columnar             |
|           |                                       | GOLD.                          |                                 | granular                     |
|           | Native Gold.<br>GENUS II              | -PLATINA.                      |                                 | lenticular<br>nodular        |
| Spec. 1.  | Native Platina.                       |                                |                                 | common                       |
|           | Native silver.                        | .—SILVER.                      | 9. Carbonate of Iron.           | Bog ore.                     |
|           |                                       | auriferous                     | 10. Sulphate of Iron.           |                              |
| 2.        | Antimonial Silver<br>Arsenical Silver | ci.                            | 11. Phosphate of Iron.          | foliated                     |
| A         | Sulphuret of Si                       | ver.                           |                                 | earthy                       |
| 5.        | Sulphuretted An                       | brittle                        | 12. Arsentate of Iron.          | Green iron earth.            |
| 6.        | Black Silver                          |                                | 13. Chromate of Iren.           | Annual 201                   |
|           | Carbonate of Si<br>Muriate of Silve   |                                |                                 | crystallized<br>granular     |
|           | DIGITAL OF WALL                       | argillaceous                   |                                 | amorphous                    |
| 74        |                                       |                                |                                 |                              |

SUBSPECIES AND VARIETIES. GENUS VII.--LEAD.

Native Lead

2. Sulphuret of Lead

common compact fibrous

antimonial argento-antimonial

3. Oxide of Lead. 4. Carbonate of Lead.

argento-bismuthal earthy

crystallized acicular columnar

compact

5. Carbonated Muriate of Lead.
6. Sulphate of Lead.
7. Phosphate of Lead.

acicular arseniated

bluish

8. Arseniate of Lead. 9. Chromate of Lead. 10 Molybdate of Lead

GENUS VIII.—TIN.
Spec. 1. Oxide of Tin.

fibrous

2. Pyritous Tin.
GENUS IX.-ZINC.

SPEC. 1. Sulphuret of Zinc.

vellow brown black fibrous

2. Red Oxide of Zinc.
3. Siliceous Oxide of Zinc

foliated common

4. Carbonate of Zinc. 5. Sulphate of Zinc.

GENUS X .- NICKEL.

SPEC. 1. Native Nickel.

2. Arsenical Nickel.
3. Oxide of Nickel.
GENUS XI.—COBALT.
Sprc. 1. Arsenical Cobalt.

Gray Cobalt.
 Sulphuret of Cobalt.
 Oxide of Cobalt.

black brown yellow

5. Sulphate of Cobalt.

6. Arseniate of Cobalt.

acicular earthy argentiferous

GENUS XIL-MANGANESE.

5. \*\*c. 1. Oxide of Manganese.

radiated compact earthy

ferruginous 2. Sulphuret of Manganese

3. Carbonate of Manganese.
4. Phosphate of Manganese.
GENUS XIII.—ARSENIC.

SPEC. 1. Native Arsenic.

concreted specular

2. Sulphuret of Arsenic.

Realgar. Orpiment

Oxide of Arsenic.

SUBSPECIES

GENUS XIV .- BISMUTH.

SPEC. 1. Native Bismuth.
2. Sulphuret of Bismuth.
3. Ozide of Bismuth.
GENUS XV.—ANTIMONY.

SPEC. 1. Native Antimony.

2. Sulphuret of Antimony.

radiated foliated

compact plumous

3. Oxide of Antimony.

4. Sulphuretted Oxide of Antimony.
GENUS XVI.—TELLURIUM.
Spec. 1. Native Tellurium.

auro-argentiferous.

SPEC.

auro-argentiferous.
auro-plumbiferous.
GENUS XVII.—CHROME.
GENUS XVIII.—MOLYBDEMA.

1. Sulphure of Molybdena.
GENUS XIX.—TUNGSTEM.
1. Calcareous Oxide of Tungsten.
2. Ferruginous Oxide of Tungsten.
GENUS XX.—TITANIUM.
1. Red Oxide of Titanium.
2. Ferruginous Oxide of Titanium.
Mepachanite.

Menachanite.

Nigrine. Iserine. 3. Silico-calcareous Oxide of Titanium

Sinco-catcareous Oxide of Tital
 Octaedral Oxide of Titanium. GENUS XXI.—URANIUM
 Black Oxide of Uranium.
 Green Oxide of Uranium.

crystallized

GENUS XXII.—COLUMBIUM.
Spec. 1. Oxide of Columbium.

ferruginous

GENUS XXIII.—CERIUM.

SPEC. 1. Oxide of Cerium.

Mineral caoutchouc. See Caoutchouc.

Mineral vich. Bitumen.

Mineral pitch. Bitumen. Mineral poisons. See Poisons. Mineral salts. See Salts.

MINERAL WATERS. Aqua minerales. Aqua medicinales. Waters holding minerals in solution are called mineral waters. But as all water, in a mineral state, is impregnated, either more or less, with some mineral substances, the name mineral waters, should be confined to such waters as are sufficiently impregnated with mineral matters to produce-some sensible nated with mineral matters to produce-some sensible effects on the animal economy, and either to cure or prevent some of the diseases to which the human body is liable. On this account, these waters might be with much more propriety called medicinal waters, were not the name by which they are commonly known too firmly established by long use.

The mineral waters which are the most esteemed.

and consequently the most resorted to for the cure of

diseases, are those of,

1. Aix.
2. Barege.
3. Bath.
4. Bristol. Malvern.
 Matlock.
 Moffat.

16. Pyrmont. 17. Scarborough. Buxton. 18. Spa

Borset. 19. Seidlitz. 20. Sea-water. Cheltenham. Carlsbad. 21. Seltzer. 22. Tunbridge Epsom.

10. Harrowgate: 11. Hartfell. 12. Holywell. Vichy, and others of less note.

For the properties and virtues of these, consult their respective heads.

## A SYNOPTICAL TABLE, showing the Composition of MINERAL WATERS.

|                                |             |                      |               | Con           | Contained in an English Wine Pint of 28,875 Cubic Inches. | sh Wine Pint of 2   | 8.875 Cubic Inches        | -                                  | Ī              |
|--------------------------------|-------------|----------------------|---------------|---------------|---|---------------------|---------------------------|------------------------------------|----------------|
| CLASS. 13                      | NAME.       | Highest Temperature. | Azotic Gas.   | Carbonic Acid | Sulphuretted<br>Hydrogen.                                 | Carbonated<br>Soda. | Neutral<br>Purging Salts. | Selenite and Earthy<br>Carbonates. | Oxide of Iron. |
|                                |             | Pahrenheit.          | Cubic Inches. | Cubic Inches. | Cubic Inches.   | Grains.             | Grains.                   | Grains.                            | Grains.        |
|                                | Malvern     |                      |               | uncertain     | none  | попе                | uncertain                 | uncertain                          | none           |
| Simple cold                    | Holywell    |                      |               |               | none  | none                | uncertain                 | uncertain                          | none           |
|                                | Bristol     | 740                  | uncertain     | 3.75          | none  | none                | 2.81                      | 3.16                               | none           |
| Simple thermal                 | Matlock     | 099                  |               | uncertain     | none  | none                | uncertain                 | uncertain                          | none           |
|                                | Buxton      | 830                  | 0.474         | uncertain     | none  | none                | 0.25                      | 1.625                              | none           |
|                                | Seidlitz    |                      |               | 1.            | none  | none                | 185.6                     | 8.68                               | none           |
| Simple saline                  | Epsum       |                      |               |               | none  | none                | 40.3                      | 8.3                                | попе           |
|                                | Sea         |                      |               |               | поте  | попе                | 237.5                     | 6.                                 | none           |
| Highly carbonated alkaline     | Seltzer     |                      |               | 17.           | none  | 4.                  | 17.5                      | ϡ                                  | none           |
| Simple carbonated chalybeate   | Tunbridge   |                      | 0.675         | 1.325         | nome  | none                | 0.344                     | 0.156                              | 0.125          |
| Hot marbonated chalybeate      | Bath        | 1160                 | 1.3           | 1.3           | none  | none                | 10.3                      | 10.3                               | uncertain      |
|                                | Spa         |                      |               | 12.79         | none  | 1.47                | 4.632                     | 1.47                               | 0.56           |
| Highly carbonated chargocate   | Pyrmont     |                      |               | 26. +         | none  | папе                | 7.13                      | 23.075                             | 0.56           |
|                                | Cheltenham  |                      | uncertain     | 5.687         | uncertain   | none                | 62.125                    | 6.85                               | 0.625          |
| Saline, carbonated chalybeate  | Scarborough |                      |               | uncertain     | none  | none                | 20.                       | 10.                                | uncertain      |
| Hot. saline. highly carb nated | Vichy       | 12003                |               | uncertain     | none  | uncertain           |                           | uncertain                          | uncertain      |
| chalybeate \                   | Carlsbad    | 1650                 |               | uncertain     | попе  | 11.76               | 47.04                     | 4.15                               | uncertain      |
| Vitriolated chalybeate         | Hartfell    |                      |               |               | none  | none                | nona                      | попе                               | 4.815*         |
|                                | Harrowgate  |                      | 0.875         | pool          | 2.375   | поше                | 91.25                     | ကိ                                 | nong           |
| Cold suppurcous                | Moffat      |                      | 0.5           | 0.625         | 1.25  | попе                | 4.5                       | none                               | none           |
|                                | Aix         | 1430                 |               | uncertain     | uncertain   | 12.                 | 5.                        | 4.75                               | попе           |
| Hot, alkaline, sulphureous - < | Borset      | 1320                 |               | uncertain     | uncertain   | uncertain           | uncertain                 |                                    | none           |
|                                | Вагоро      | 0001                 |               |               | uncertain   | 2.5                 | 0.5                       | uncertain                          | none           |

That is, 2,94 contained in the sulphace of iron, (this salt, when crystallized, containing 28 per cent of oxide of iron, according to Kirwan,) and 1.875 additional of oxide of iron.

into nine orders, viz.

J. Cold acidulous waters.

- 2. Hot or thermal acidulous waters.
- Sulphuric saline waters. Muriatic saline waters
- Simple sulphureous waters.
- 6.
- Sulphurated gaseous waters. Simple ferruginous waters.
- 8. Ferruginous and acidulous waters.

Sulphuric ferruginous waters.

Dr. Saunders arranges mineral waters into the following classes:

Simple cold.

thermal.

saline

- Highly carbonated alkaline
- Simple carbonated chalybeate.
- Hot carbonated chalybeate.

- Highly carbonated chalybeate. Saline carbonated chalybeate. Hot saline highly carbonated chalybeate. Vitriolated chalybeate.

11. Cold, sulphureous.

12. Hot, alkaline, sulphureous.

In order to present the reader, under one point of view, with the most conspicuous features in the composition of the mineral waters of this and some other countries, the preceding Synoptical Table has been subjoined, from Dr. Saunders's work on mineral waters.

joined, from Dr. Saunders's work on mineral waters.

The reader will please to observe, that under the head of Neutral Purging Salts, are included the sulphates of soda and magnesia, and the muriates of lime, soda, and magnesia. The power which the earthy muriates may possess of acting on the intestinal canal, is not quite ascertained, but, from their great solubility, and from analogy with salts, with similar component parts, we may conclude that this forms a principal part of their operation.

The reader will likewise observe, that where the spaces are left blank, it signifies that we are ignorant whether any of the substance at the head of the column is contained in the water; that the word none, implies a certainty of the absence of that substance: and the term uncertain, means that the substance is contained, but that the quantity is not known.

contained, but that the quantity is not known.

Dr. Henry, in his epitome of chemistry, gives the following concise and accurate account for the analysis

of mineral waters:

Water is never presented by nature in a state of complete purity. Even when collected as it descends in the form of rain, chemical tests detect in it foreign ingredients. And when it has been absorbed by the earth, has traversed its different strata, and is returned to the burney to spice a straversed in the condition because the second of the present strata. to us by springs, it is found to have acquired various impregnations. The readiest method of judging of the contents of natural waters, is by applying what are the contents of natural waters, is by applying what active termed tests, or reagents, i. e. substances which, on being added to a water, exhibit by the phenomena they produce, the nature of the saline and other ingredients. For example, if, on adding an infusion of litinus to any water, its colour is changed to red, we infer that the water contains an uncombined acid; if this change ensue even after the water has been boiled, we judge that the acid is a fixed and not a volatile one; and if on adding the muriate of barytes, a precipitate falls down, we safely conclude that the peculiar acid present in the water is either entirely or in part the sulphuric acid. Dr. Henry first enumerates the tests generally employed in examining mineral waters, and describes their application, and afterward indicates by what particular tests the substances generally found in waters may be detected.

A. Infusion of Litmus. Syrup of Violets, &c.
As the infusion of litmus is apt to spoil by keeping,
some solid litmus should be kept. The infusion is prepared by steeping this substance, first bruised in a mortar, and tied up in a thin rag, in distilled water, which extracts its blue colour. If the colour of the infusion tends too much to purple, it may be amended by a drop or two of pure ammonia; but of this no more should be added than what is barely sufficient, lest the delicacy of the test should be impaired. The syrup of violets is not easily obtained pure. The genuine syrup may be distinguished from the spurious by a solution of united with alkalies, or early corrosive sublimate, which changes the former to green, while it reddens the latter. When it can be

Fourcroy divides all mineral and medicinal waters | procured genuine, it is an excellent test of acids, and may be employed in the same manner as the infusion of litmus. Paper stained with the juice of the marsh of litmus. Paper stained with the jurce of the maran-violet, or with that of radishes, answers a similar pur-pose. In staining paper for the purpose of a test, it must be used unsized; or, if sized, it must previously be washed with warm water; because the alum which enters into the composition of the size will otherwise change the vegetable colour to a red. Infusion of litmus is a test of most uncombined

acids

If the infusion redden the unboiled but not the boiled water under examination, or if the red colour occasioned by adding the infusion to a recent water, return to blue on boiling, we may infer that the acid is a volatile one, and most probably the carbonic acid. Sulthe one, and most probably the carbonic acid. Sul-phuretted hydrogen gas, dissolved in water, also red-dens litmus, but not after boiling. To ascertain whether the change be produced by carbonic acid, or sulphuret-ted hydrogen, when experiment shows that the red-dening cause is volatile, add a little lime-water. This, if carbonic acid be present, will occasion a precipitate, which will dissolve with effervescence, on adding a little muriatic acid. Sulphuretted hydrogen may also be contained in the same water, which will be ascertained by the tests hereafter to be described.

Paper tinged with litmus is also reddened by the presence of carbonic acid, but regains its blue colour by drying. The mineral and fixed acids redden it permanently. That these acids, however, may produce their effect, it is necessary that they should be present in a sufficient proportion.

their effect, it is necessary that they should be present in a sufficient proportion.

Influsion of lithius reddened by vinegar—Spirituous tincture of Brazil-wood—Tincture of turmeric and paper stained with each of these three substances—Syrup of violets. All these different tests have one and the same object.

1. Infusion of litmus reddened by vinegar, or litmus paper reddened by vinegar, has its blue colour restored by alkalies and pure earths, and by carbonated alkalies

and earths.

2. Turmeric paper and tincture are changed to a reddish brown by alkalies, whether pure or carhonated, and by pure earths; but not by carbonated

3. The red infusion of Brazil-wood, and paper stained with it, become blue by alkalies and earths, and even by the latter, when dissolved by an excess of carbonic acid. In the last-mentioned case, however, the change will either cease to appear or be much less remarkable, when the water has been boiled.

4. Syrup of violets, when pure, is by the same causes turned green, as also paper stained with the juices of turned green, as a violets, or radishes.

B. Tincture of Galls.

Tincture of Galls.

Tincture of galls is the test generally employed for discovering iron, with all the combinations of which it produces a black linge, more or less intense, according to the quantity of iron. The iron, however, in order to be detected by this test, must be in the state of red oxide, or, if oxidated in a less degree, its effects will not be apparent, unless after standing some time in contact with air. By applying this test before and after evaporation or boiling, we may know whether the iron be held in solution by carbonic acid, or a fixed

acid; for,

1. If it produce its effects before the application of heat, and not afterward, carbonic acid is the solvent.

2. If after, as well as before, a mineral acid is the

solvent

solvent.

3. If, by the boiling, a yellowish powder be precipitated, and yet galls continue to strike the water black afterward, the iron, as often happens, is dissolved both by carbonic acid and a fixed acid. A neat mode of applying the gall test was used by Klaproth, in his analysis of the Carlshad water. A slice of the gall-nut was suspended by a silken thread, in a large bottle of the recent water; and so small was the quantity of iron, that is each only in the property of the property cent water; and so small was the quantity of iron, that it could only be discovered in water fresh from the

C. Sulphuric Acid.

1. Sulphuric acid discovers, by a slight effervescence, the presence of carbonic acid, whether uncombined or

united with alkalies, or earths.

2. If lime be present, whether pure or uncombined the addition of sulphuric acid, occasions, after a few

white powder

4. Nitrous and muriatic salts, on adding sulphuric 4. Mirota the internal state of the state of given hereafter

Nitric and Nitrous Acid.

These acids, if they occasion effervescence, give the same indications as the sulphuric. The nitrous acid has been recommended as a test distinguishing between hepatic waters that contain sulphuret of potassa, and those that orly contain sulphuretted hydrogen gas. In the former case a precipitate ensues on adding nitrous acid, and a very fætid smell arises; in the latter, a slight cloudiness only appears, and the smell of the water becomes less disagreeable.

D. Oxalic Acid and Oxalates.

This acid is a most delicate test of lime, which it separates from all its combinations.

 I. If a water which is precipitated by oxalic acid, becomes milky on adding a watery solution of carbonic process. becomes minky on adding a watery solution of carbonic acid gas, or by blowing air through it by means of a quill, or glass tube, we may infer that pure lime (or barytes, which has never yet been found pure in water)

is present.

2. If the oxalic acid occasion a precipitate before but not after boiling, the lime is dissolved by an excess of

carbonic acid.

3. If, after boiling, by a fixed acid: a considerable excess of any of the mineral acids, however, prevents the oxalic acid from occasioning a precipitate, even though lime be present; because some acids decompose the oxalic, and others, dissolving the oxalate of lime,

prevent it from appearing.

The oxalates of ammonia, or of potassa, (which may easily be formed by saturating their respective carbo-nates with a solution of oxalic acid,) are not liable to the above objections, and are preferable, as reagents, to the uncombined acid. Yet even these oxalates fail to detect lime when supersaturated with muriatic or nitric acids; and if such an excess be present, it must be saturated before adding the test with pure ammonia. Fluate of ammonia is the best test of lime. It is made by adding carbonate of ammonia to diluted fluoric acid.

E. Pure Alkalies and Carbonated Alkalies 1. The pure fixed alkalies precipitate all earths and metals, whether dissolved by volatile or fixed menstrua, but only in certain states of dilution: for example, sulphate of alumine may be present in water, in the proportion of 4 grains to 500, without being discovered by pure fixed alkalies. As the alkalies precipitate so many substances, it is evident they cannot afford any precise information when employed as reagents. the colour of the precipitate, as it approaches to pure white, or recedes from it, an experienced eye will judge that the precipitated earth contains less or more of the metallic admixture

2. Pure fixed alkalies decompose all salts with basis of animonia, which becomes evident by its smell, and also by the white fumes it exhibits when a stopper is brought near it, moistened with muriatic acid

Carbonates of potassa and soda have similar ef-

4. Pure ammonia precipitates all earthy and metallic salts. Besides this property, it also imparts a deep blue colour to any liquid that contains copper in a state of solution.

Carbonate of ammonia has the same properties, except that it does not precipitate magnesia from its com-binations. Hence, to ascertain whether this earth be

binations. Hence, to asceram whether this earth be present in any solution, add the carbonate of ammonia till no further precipitation ensues, filter the liquor, and then add pure ammonia. If any precipitation now occurs, we may infer the presence of magnesia.

F. Lime Water.

Lime-water is applied for the purposes of a test, chiefly for detecting carbonic acid. Let any liquor, supposed to contain this acid, be mixed with an equal bulk of lime-water. If carbonic acid be present, either free or combined, a precipitate will immediately appear, which, on adding a few drops of muriatic acid, will immediately dissolve with effervescence.

2. Lime-water will immediately show the presence of corrosive sublimate, by a brickdust-coloured sediment. If arsenic be present in any liquid, lime-water,

3. Barytes is precipitated instantly in the form of a | when added, will occasion a precipitate, consisting of when among win occasion a precipinace, consisting of lime and arsenic, which is very difficultly soluble in water. This precipitate, when mixed up with oil, and laid on hot coals, yields the well-known garlic smell of arsenic.

G. Pure Barytes, and its Solution in Water

1. A solution of pure barytes is even more effectual A solution of pure barytes is even more effectual than lime water, in detecting the presence of carbonic acid, and is much more portable and convenient; since from the crystals of this earth, the solution may at any time be prepared. In discovering fixed air, the solution of barytes is used similarly to lime-water; and, if this acid be present, gives, in like manner, a precipitate so-luble with effervescence in muriatic acid.

Pure strontites has similar virtues as a test.

H. Metals.

1. Of the metals, silver and mercury are tests of the presence of sulphurets, and of sulphuretted hydrogen gas. If a little quicksilver be put into a bottle, containing water impregnated with either of these substances, its surface soon acquires a black film, and, on shaking, a blackish powder separates from it. Silver is immediately tengled for the separates.

diately tarnished from the same cause.

2. The metals also may be used as tests of each other, and on the principle of elective affinity. Thus, for example, a polished iron plate, immersed in a solu-tion of sulphate of copper, soon acquires a coat of this metal, and the same in other similar examples.

I. Sulphate of Iron.

This is the only one of the sulphates, except that of silver, applicable to the purposes of a test. When used in this view, it is generally employed to ascertain the presence of oxygenous gas, of which a natural wa-

ter may contain a small quantity.

A water suspected to contain this gas, may be mixed with a little recently dissolved sulphate of iron, and kept corked up. If an oxide of iron be precipitated in the course of a few days, the water may be inferred to

contain oxygenous gas.

Sulphate, Nitrate, and Acetate of Silver.

These solutions are, in some measure, applicable to the same purpose

1. They are peculiarly adapted to the discovery of muriatic acid and muriates. For the silver, quitting the nitric or other acid, combines with the muriatic, and forms a flaky precipitate, which at first is white, but, on exposure to the sun's light, acquires a violet co-lour. This precipitate Dr. Black states to contain, in 1000. This precipitate Dr. Black states to contain, in 1000 parts, as much muriatic acid as would form 425 parts and a half of crystallized muriate of soda, which estimate scarcely differs at all from that of Klaproth. A precipitation, however, may arise from other causes, which it may be proper to state.

2. The solutions of silver in a cid are precipitated by

carbonated alkalies and earths. The agency of these may be prevented by previously adding a few drops of the same acid in which the silver is dissolved.

The nitrate and acetate of silver are decomposed by the sulphuric and sulphurous acids; but this may be prevented by adding previously a few drops of nitrate or acetate of barytes, and after allowing the precipitate of acetate of barytes, and arter anowing the properties to subside, the clear liquor may be decanted, and the solution of silver added. Should a precipitation now take place, the presence of muriatic acid, or some one of its combinations, may be suspected. To obviate take piace; the presence of munatic acid, or some one of its combinations, may be suspected. To obviate uncertainty, whether a precipitation be owing to sulphuric or muriatic acid, a solution of sulphate of silver may be employed, which is affected only by the latter

acid.

4. The solutions of silver are precipitated by extractive matters; but in this case also the precipitate is discoloured, and is soluble in nitrous acid.

K. Mitrate and Acctate of Lead.

1. Acetate of lead, the most eligible of these two tests, is precipitated by sulphuric and muriatic acids; but ac, of both these, we have much better indicators. but as, of both these, we have much better indicators, it is not necessary to enlarge on its application to this

The acetate is also a test of sulphuretted hydrogen and sulphurets of alkalies, which occasion a black precipitate; and if a paper, on which characters are traced with a solution of acetate of lead, be held over a portion of water containing a sulphuretted hydrogen, they are soon rendered visible.

3. The acetute of lead is employed in the discovery of uncombined boracic acid, a very rare ingredient of waters. To ascertain whether this be present, some

cautions are necessary. The uncombined alkalies and earths (if any be suspected) must be saturated with a cettic acid. The sulphates must be decomposed by accetate or nitrate of barytes, and the muriates by accetate or nitrate of silver. The filtered liquor, if borneic acid be contained in the silver with the sulphates and the muriate of silver. The filtered liquor, if borneic acid be contained in the silver was the sulphates and the sulphates and the sulphates are acceptable in the sulphates and the sulphates are acceptable in the sulp acid be contained in it, will give a precipitate soluble in nitric acid of the specific gravity of 1.3.

L. Nitrate of Mercury, prepared with and without

heat

This solution, differently prepared, is sometimes employed as a test. But, since other tests answer the same purposes more effectually, it is not absolutely necessary to have these tests.

M. Muriate, Nitrate, and Acetate of Barytes.

1. These solutions are all most delicate tests of sul-These solutions are all most content case of appharic acid, and of its combinations, with which they give a white precipitate, insoluble in dilute muriatic acid. They are decomposed, however, by carbonates of alkalies; but the precipitate occasioned by these is soluble in dilute muriatic and nitric acid with effervescence, and may even be prevented by adding pre-viously a few drops of the acid contained in the barytic salt.

One hundred grains of dry sulphate of barytes (according to Klaproth, p. 168), contain about 45 one-fifth of sulphuric acid of the specific gravity 1850, according to Clayfield, 33 of acid of sp. gr. 3240; according to Thenard, after calcination about 25. These estimates Theman, after calcination about 25. These estimates differ very considerably. From Klaproth's experiments, it appears that 1000 grains of sulphate of barytes indicate 595; desiccated sulphate of soda, or 1415 of the crystallized salt. The same chemist has shown that 100 grains of sulphate of barytes are produced by the precipitation of 71 grains of sulphate of lime.

2. Phosphoric salts also occasion a precipitate with

these tests, which is soluble in muriatic acid without

effervescence.

N. Prussiates of Potassa and Lime.

Of these two the prussiate of potassa is the most eligible. When pure it does not speedily assume a blue colour on the addition of acid, nor does it immediately precipitate muriatic barytes. Prussiate of potassa is a precipitate muriatic barytes. Prussiate of potassa is a very sensible test of iron, with the solutions of which in acids it produces a Prussian blue precipitate, in consequence of a double elective affinity. To render its effect more certain, however, it may be proper to add previously, to any water suspected to contain iron, a little muriatic acid, with a view to the saturation of uncombined alkalies, or earths, which, if present, prevent the detection of any minute portions of iron.

1. If a water, after boiling and filtration, does not afford a blue precipitate on the addition of prussiate of presents.

afford a blue precipitate on the addition of prussiate of potassa, the solvent of the iron may be inferred to be a volatile one, and probably the carbonic acid.

2. Should the precipitation ensue in the boiled water, the solvent is a fixed acid, the nature of which must be ascertained by other tests.

O. Solutions of Soap in Alkohol.

This solution may be used to ascertain the comparative hardness of waters. With distilled water it may tive hardness or waters. With distinct water it may be mixed without producing any change; but, if added to a hard water, it produces a milkiness, more or less considerable as the water is less pure: and from the degree of milkiness, an experienced eye will judge of its quality. The acids, alkalies, and all earthy and metallic salts, decompose soap, and occasion that property in water termed hardness

Alkohol.

Alkohol, when mixed with any water in the proportion of about an equal bulk, precipitates all the sorts which it is not capable of dissolving.

P. Hydro-sulphuret of Ammonia. This and other sulphurets, as well as water saturated This and other supinites, as were as water anator with sulphuretted hydrogen, may be employed in detecting lead and arsenic, with the former of which they give a black, and with the latter a yellowish precipitate. As lead and arsenic, however, are never found in natural waters, these tests are not required.

MINERALIZE. Metallic substances are said to be

mineralized when deprived of their usual properties by combination with some other substance.

MINERA'LOGY. Mineralogia. That part of natural history which relates to minerals.

See Minimum.

MINIMUM. The sixtieth part of a fluid MINIMUM. A minim. The sixtieth part of a fluid drachm. An important change has been adopted in ministering chalk as an adstringent and antacid. It is A minim.

in the trachin has been assumed to be sixty and taking water as a standard, this number, though by no means accurate, would still be sufficient for ordinary purposes; but when other liquids of less specific gravity purposes; out when other inquision resemble in a much larger number is required to ill the same measure, as of proof spirit, 140 drops are required to equal the bulk of 60 of water, dropped from the same vessel. If, therefore, in the composition of medicines, measures suited to the standard of water were used occasionally only, and it was generally assumed that 60 drops were equal to one fluid-drachm, and one fluid-drachin was substituted for 60 drops prescribed, twice the dose intended would be given. There are further objections to the use of drops; that their bulk is influenced by the quantity of liquid contained in the bottle from which they fall, by the thickness of the lip, and even by the inequalities on the surface of the lip of the same bottle; that volatile liquids, to which this mode is most commonly applied, are thus exposed with extensive surfaces, and their evaporation promoted; and on all these accounts the adoption of some deci-sive, convenient, and uniform substitute became necessive, convenient, and unitorin substitute became necessary. The subdivision of the wine pint has, therefore, been extended to the sixtieth part of the fluid-draching, which is termed minim: and glass measures expressive of such subdivision, have been adopted by the

college.
MI'NIUM. Red oxide of lead. See Lead. MINIUM GRÆCORUM. Native cinnabar MINT.

See Mentha.

MINT. See Mentia.
Mint, pepper. See Mentha piperita.
Mint, venter. See Mentha aquatica.
MISCARRIAGE. See Abortion.
MISCARRIAGE. See Abortion on me: so called
om its unhappy torments.) The iliac passion. See

from its unhappy torments.)

MISLAW. See Musa paradisiaca. MISLETCE. See Viscum.

MISOCHYMICUS. An enemy to the chemists and their enthusiastic conceits.

MISPICKLE. Common arsenical pyrites. A white,

brilliant, granulated iron ore, composed of iron in com-bination with arsenic.

MISTU'RA. A mixture. A fluid composed of two or more ingredients. It is mostly contracted in prescriptions thus, mist. e. g. —f. mist. which means, let a mixture be made.

MISTURA AMMONIACI. Lac ammoniaci. Mixture of ammoniacum.—Take of annuoniacum, two draclims; of water, half a pint; rub the ammoniacum with the water gradually added, till they are thoroughly mixed

MISTURA ANYGDALE: Lac amygdalæ. Almond mixture, or emulsion.—Take of almond confection, two ounces; distilled water, a pint: gradually add the water to the almond confection, rubbing them together,

Water to the annotal confection, thould then together, till properly mixed; then strain.

MISTURA ASAFETIDÆ. Lac asafætidæ. Mixture of asafætidæ.—Take of asafætidæ, two drachms; water, half a pint; rub the asafætida with the water, gradually added, till they are thoroughly mixed.

gradually added, till they are thoroughly mixed. MISTURA CAMPHORÆ. Camphor mixture.—Take of camphor, half a drachm; rectified spirit, ten minims; water, a pint. First rub the camphor with the spirit, then with the water gradually added, and strain the liquor. A very elegant preparation of camphor, for delicate stomachs, and those who cannot bear it in substance, as an antispasmodic and nervine. There is a great loss of camphor in making it as directed by the harmacongis. Water can only take up a certain

a great loss of camphor in making it as directed by the pharmacopeia. Water can only take up a certain quantity. For its virtues, see Laurus camphora.

MISTURA CORNU USTI. Decoctum album. Decoction of hartshorn. Take of hartshorn, burnt and prepared, two ounces; acacia gum, powdered, an, owney water, three pints. Boil down to two pints, constantly stirring, and strain. This is a much weaker absorbent than the pristura crete, but is much pore agreeable. than the mistura cretæ, but is much more agreeable to most people. It forms an excellent drink in fevers attended with diarrhea, and acidities of the prime vie.
MISTURA CRETE. Chalk mixture.—Take of pre

MISTURA CRETE. Chalk mixture.—Take of pre pared chalk, half an ounce; refined sugar, three drachms; guin-arabic, powdered, half an ounce; water, a pint. Mix. A very useful and pleasant form of ad-

particularly calculated for children, in whom it allays ! particularly calculated of the prime vie, which are produced by acidities. Dose, one ounce to three, frequently. See Oreta and Carbonas calcis.

Mistura Ferri Composita.—Take of myrth, pow-

MISTURA FERRI COMPOSITA.—Take of myrin, powdered, a drachm; subcarbonate of potassa, twenty five grains; rose-water, seven fluid ounces and a half; sulphate of iron, powdered, a scruple; spirit of nutmeg, half a fluid ounce; refined sugar, a drachm. Rub together the myrrh, the subcarbonate of potassa and sugar; and, during the trituration, add gradually, first, the rose-water and spirit of nutmegs, and last, the sul-phate of iron. Pour the mixture immediately into a proper glass bottle, and stop it close. This preparation is the celebrated mixture of Dr. Griffiths. A chemical decomposition is effected in forming this mixture, a subcarbonate of iron is formed, and a sulphate of

potassa.

MISTURA GUAIACI. Take of guaiacum gum-resin, a drachm and a half; refined sugar, two drachms; mucilage of acacia gum, two fluid drachms; cinnamon water, eight fluid ounces. Rub the guaiacum with the sugar, then with the mucilage; and, when they are mixed, pour on the cinnamon-water gradually, rubbing them togeths. For its virtues, see Guaiacum.

MISTURA MOSCHI. Take of musk, acacia gum, powdered, refined sugar, of each a drachm: rose-water, six fluid ounces. Rubthe musk first with the sugar, then

dered, renned sugar, of each a drachm: rose-water, six fluid ounces. Rub the musk first with the sugar, then with the gum, and add the rose-water by degrees. An excellent diaphoretic and antispasmodic. It is by far the best way of administering nusk, when bolisses cannot be swallowed. Dose, one ounce to three, frequently. Mithridate mustard. See Thiaspi campestre.

MITHRIDATIUM The electuary called Mithridate,

MITHRIDATIUM The electuary called Mithridate, from Mithridates, king of Pontus and Bithynia, who, experiencing the virtues of the simples separately, afterward combined them; but then the composition consisted of but few ingredients, viz. twenty leaves of rue, two walnuts, two figs, and a little salt: of this he took a dose every morning, to guard himself against the effects of poison

MTRAL. (Mitralis; from mitra, a mitre.) Mitrelike: applied by anatomists to parts which were supposed to resemble a bishop a mitre.

MITRAL VALVES. Valvulæ mitrales. The valves of the left ventricle of the heart.

Mi'va. An ancient term for the form of a medicine, not unlike a thick syrup, now called Marmalade.

MIXTURE. 1. See Mistura.

2. Mixture in chemistry should be distinguished from solution; in the former, the aggregate particles can again be separated by mechanical means, and the proportion of the different particles determined: but, in solution, no mechanical power whatsoever can sepa-

Mocha stone. A species of agate.

Mochila. (From μοχλος, a lever.) A reduction of the bones from an unnatural to a natural situation. Mo'chlica. (From μοχλευω, to move.)

MODI'OLUS. (Diminutive of *Modus*, a measure.) The nucleus, as it were, of the cochlea of the ear is so termed. It ascends from the basis of the cochlea to the

See Nitrogen

MOFFAT. A village situated about fifty-six miles southwest of Edinburgh. It affords a cold sulphurcous water, of a very simple composition; when first drawn, it appears rather milky and bluish; the smell is exactly similar to that of Harrowgate; the smell is sulphureous and saline, without any thing bitter. It sparkles some what on being poured from one glass to another.

According to Dr. Garnett's analysis, a wine gallon of Moffat water contains thirty-six grains of muriate of soda, five cubic inches of carbonic acid gas, four of azotic gas, and ten of sulphuretted hydrogen, making altogether nineteen cubic inches of gas. Moffat water is, therefore, very simple in its composition, and hence it produces effects somewhat similar to those of Harrowgate. It is, perhaps, on this account also that it so rowgate. It is, perhaps, on this account also that it is soon loses the hepatic gas, on which depends the greatest part of its medicinal power. The only sensible effect of this water is that of increasing the flow of urine; when it purges, it appears rather to take place from the excessive dose than from its mineral ingredients. This water appears to be useful chiefly in cutaneous error water appears to be useful chiefly in cutaneous error water appears to be useful chiefly in cutaneous error water appears to be useful chiefly in cutaneous error water appears and are not leaved to the contractions and are not leaved. effect of this water is that of increasing the union with the place from the excessive dose than from its mineral ingues dients. This water appears to be useful chiefly in cutaneous cruptions, and as an external application at an other core, called sulphuret of molybdena. This ore,

increased temperature, scrofula in its early stage appears to be elevated by it; it is also used as an external application to irritable uteers, and is recommended in dyspepsia, and where there is inaction of

mended in dyspepsia, and where there is maction of the alimentary canal.

Mogila'lia. (From μογις, difficulty, and λαλεω, to speak.) A difficulty of speech.

MO'LA. (Hebrew.) 1. The knee-pan: so named because it is shaped like a millstone.

2. A mole, or shapeless mass of flesh in the uterus

See Mole. MOLA'RIS. (From melaris, a grindstone; because they grind the food.) A double-tooth. See Teeth.

MOLARES GLANDULE. Molar glands. Two salival

glands situated on each side of the mouth, between the masseter and buccinator muscles, the excretory ducts of which open near the last dens molaris.

MOLARES DENTES. See Teeth.
MOLASSES. See Saccharum.
MOLDA VICA. See Dracocephalum.

MOLE. Mola. By this term authors have intended to describe different productions of, or excretions from,

the uterus. By some it has been used to signify every kind of fleshy substance, particularly those which are properly called polypi; by others, those only which are the consequence of imperfect conception, or when the ovum is in a morbid or decayed state; and by many, which is in a morbid or decayed state; and by many, which is the most popular opinion, every coagulum of blood which continues long enough in the uterus to assume somewhat of an organized form, to have only the fibrous part, as it has been called, remaining, is denominated a mote. There is surely much impropriety, says Dr. Denham, in including, under one general name, appearances so contrary and substances so

different.

 For an account of the first kind, see Polypus.
 Of the second kind, which has been defined as an ovum deforme, as it is the consequence of conception, it might more justly be arranged under the class of monsters; for though it has the appearance of a shapeless mass of flesh, if examined carefully with a knife, various parts of a child may be discovered, lying together in apparent confusion, but in actual regularity. The pedicle also by which it is connected to the uterus, is not of a fleshy texture, like that of the polypus, but has a regular series of vessels like the umbilical cord, has a regular series of vessels like the unifilitie cord, and there is likewise a placenta and membranes containing water. The symptoms attending the formation, crowth, and expulsion of this apparently confused mass from the uterus, correspond with those of a wellformed child.

3. With respect to the third sort of mole, an incision into its substance will discover its true nature; for, although the external surface appears at the first view to be organized flesh, the internal part is composed merely of coagulated blood. As substances of this kind, which mostly occur after delivery, would always be expelled by the action of the uterus, there seems to be no reason for a particular inquiry, if popular opinion had not annexed the idea of mischief to them, and attributed their formation or continuance in the uterus to the negligence or misconduct of the practitioner. Hence the persuasion arose of the necessity of extracting all the coagula of blood out of the uterus, immedi ing all the coagula of blood out of the uter us, impearately after the expulsion of the placenta, or of giving medicines to force them away: but abundant experience hath proved, that the retention of such coagula is not, under any circumstances, productive of danger, and that they are most safely expelled by the action of the uterus, though at very different periods after their formation.

action of the uterus, though at very different periods after their formation.

Mo'LLE. Indian mastich.

MO'LLE. Indian mastich.

MOLLIFICATIO. A softening: formerly applied to a palsy of the muscles in any particular part.

MOLLITIES. (From moltis, soft.) A softness: applied to bones, nails, and other parts.

MOLLITIES OSSICM. See Malacosteon.

MOLLITIES OSSICM. See Malacosteon.

MOLLITIES OSSICM. See Molecosteon.

MOLLITIES OSSICM. See Croton tigitum.

MOLYBDATE. Molphdas. A salt formed by the union of the molybdic acid with salifiable bases: thus molubhate of antemony, &c.

which is very scarce, is so similar in several of its pro- | distillation. It has some action upon the filings of the which is very scarce, is so similar in several of its properties to plumbago, that they were long considered as varieties of the same substance. It is of a light lead-gray celour; its sunface is smooth, and feels unctuous; its texture is lamellated; it so its the fingers, and marks paper bluish-black, or silver-gray. It may be cut with a knile. It is generally found in compact masses; seldom in particles, or crystallized. It is met with in Sweden, Spain, Saxony, Siberia, and Iceland. Scheele showed that a peculiar metallic acid might be obtained from it; and large chemists have succeeded in veducing from it; and later chemists have succeeded in reducing this acid to the metallic state. We are indebted to Hatchett for a full and accurate analysis of this ore.

The native sulphuret of molybdena, is the only ore hitherto known which contains this metal.

Properties of molybdena.—Molybdena is either in an agglutinated blackish friable mass, having little metallic brillancy, or in a black powder. The mass slightly lic brillaney, or in a black powder. The mass slightly united, shows, by a magnifying glass, small, round, brilliant grains. Its weight is about 8. It is one of the most infusible of the metals. It is capable of combining with a number of metals by fusion. It forms with sulphur an artificial sulphuret of molybdena analogous to its ore. It unites also to phosphorus. The affinity of molybdena for oxygen is very feeble, according to Hatchett. The alkalies have no action on molybdena in the moist way, but it enters readily into fusion with potassa and soids. It is oxidisable by boiling sulphuric acid, and acidifiable by the nitric acid. Muriatic acid does not act upon it. It is capable of existing in not less than four different degrees of oxygenation. of oxygenation.

Method of obtaining molybdena.—To obtain molybdena is a task of the utmost difficulty. Few chemists have succeeded in producing this metal, on account of its great infusibility. The method recommended in general is the following:—Molybdic acid is to be formed into a paste with oil, dried at the fire, and then exposed to a violent heat in a crucible fined with charcoal. By this means the oxide becomes decomposed;

coal. By this means the oxide becomes decomposed; a black agglutinated substance is obtained, very brittle under the finger, and having a metallic brilliancy. This is the metal called molybdena.

MOLYBBIC ACID. (\*ziciaum, molybdicum; from Molybdenum, its base.) The native sulphuret of molybdenum being roasted for some time, and dissolved in water of ammonia, when nitric acid is added to this solution, the molybdic acid precipitates in fine white scales, which become yellow on melting and subliming them. It changes the vegetable blues to red, but less readily and powerfully than the molybdous acid.

Molybdic acid has a specific gravity of 3.460. In an open vessel it sublimes into brilliant yellow scales; \$60 parts of boiling water dissolve one of it, affording a pate yellow solution, which reddens limms, but has no taste.

parts of boiling water dissolve one of it, affording a pair yellow solution, which reddens limus, but has no taste. Sulphur, charcoal, and several metals, decompose the molybdic acid. Molybdic of potassa is a colourless salt. Molybdic acid gives, with nitrate of lead, a white precipitate, soluble in nitric acid; with the nitrates of mercury and silver, a white flaky precipitate; with nitrate of compose a grounds weedingto. with nitrate of copper, a greenish precipitate; with solutions of the neutral sulphate of zinc, muriate of bismuth, muriate of antimony, nitrate of nickel, muriates of gold and platinum, it produces white precipitates. When melted with borax, it yields a bluish colour, and many divanced in its solution becomes in colour; and paper dipped in its solution becomes, in the sun, of a beautiful blue.

The neutral alkaline molybdates precipitate all me-The neutral analine molyocates precipitates an inetallic solutions. Gold, muritate of mercury, zinc, and manganese, are precipitated in the form of a white powder; fron and tin, from their solutions in muriatic acid, of a brown colour; coball, of a rose colour; coper, blue; and the solutions of alum and quickline, white. If a dilute solution of recent muriate of tin be precipitated by a dilute solution of molybdate of po-

tassa, a beautiful blue powder is obtained.

The concentrated sulphuric acid dissolves a considerable quantity of the molybdic acid, the solution becoming of a fine blue colour as it cools, at the same time that it thickens; the colour disappears again on the application of heat, but returns again by cooling. A strong heat expels the sulphuric acid. The nitric A strong heat expels the sulphuric acid. The nitric acid has no effect on it; but the muriatic dissolves it in considerable quantity, and leaves a dark blue residuum when distilled. With a strong heat it expels a portion of sulphuric acid from sulphate of potassa. It also disengages the acid from nitre and common salt by metals in the moist way

MOLYBDI'TIS. See Molubdenum.

MOLY BOOS. (Οτι μολει εις βαθος; from its gravity.)

MOLYBDOUS ACID. Acidum molybdosum. The deut-oxide of molybdenum is of a blue colour, and possesses acid properties. Triturate 2 parts of molybdic acid, with one part of the metal, along with a little hot water, in a porcelaim mortar, till the mixture assumes a blue colour. Digest in 10 parts of boiling water, filter and evaporate the liquid in a heat of about MOLYBDOUS ACID. 1209. The blue exide separates. It reddens vegetable blues, and forms salts with the bases. Air or water, when left for some time to act on molybdenum, con-vert it into this acid. It consists of about 100 metal to 34 oxygen.

MOLY'ZA. (Diminutive of μωλυ, moly.) Garlic; the head of which, like moly, is not divided into

Moniscus. (From  $\mu\omega\mu_0$ s, a blemish.) That part of the teeth which is next the gams, and which is usually covered with a foul tartareous crust.

MOMO'RDICA. (Momordica; from mordeo, to bite; from its sharp taste.) The name of a genus of plants in the Linnaan system. Class, Monacia; Or-

der, Syngenesia.

der, Syngenesia.

Momordo Blaterium. The systematic name of the squirting encumber. Elaterium; Cucumis agrestis; Cucumes asiminas; Cucumis sylvestras; Elaterium officinarum; Boubailos; Charantia; Guarerba orba. Wild, or squirting cucumber. Monordica—pomis hispais circhismallis of Limpens. The dried sediment from the juice of this plant is the elaterium of the shops. It has nother smell nor taste, and is the most powerful cathartic in the whole Materia Medica. Its efficacy in dropsies is said to be consider-able; it, however, requires great caution in the exhi-bition. From the eight to the half of a grain should be given at first, and repeated at proper intervals until it operates. The cathartic power of this substance is derived from a small portion of a very active principle, which Dr. Paris, in his Pharmacologia, has called Elatin. From ten grains of elaterium he obtained,

| Vater              |     |     |    | <br> | <br>    | <br> |       | . 0.4  |
|--------------------|-----|-----|----|------|---------|------|-------|--------|
| Extract            | ive |     |    | <br> | <br>    | <br> | <br>D | 2.6    |
| Fecula             |     |     |    | <br> | <br>    | <br> | <br>۰ | 2.8    |
| Fluten             |     |     |    | <br> | <br>    | <br> |       | 0.5    |
| Woody              |     |     |    |      |         |      |       |        |
| Elatin<br>Bitter p |     |     |    | <br> | <br>0 0 | <br> |       | 110    |
| Bitter p           | rin | cip | le | <br> | <br>    | <br> |       | \$ 1.2 |
| •                  |     |     |    |      |         |      |       |        |
|                    |     |     |    |      |         |      |       | 10     |

MONA'RDA. (So called in honour of Nicholas MONA'KDA. (So called it notion of Archives Monardes, a Spanish physician and botanist.) The name of a genus of plants in the Linnwan system. Class, Diandria; Order, Monagynia.

MONARDA ISTRUGAS. The systematic name of the purple monarda. The leaves of this plant have a fractional consequent bitter.

purple monarda. The leaves of this plant have a fra-grant smell, and an aromatic and somewhat bitter taste, possessing nervine, stomachic, and deobstruent An infusion is recommended in the cure of

intermittent fevers.

[" The Monarda is a very pungent aromatic, growing In the monarda is a very progeneration and properly and the United States, with various other species, some of which resemble it in efficacy. In different parts of the country it is known by the names of mountain-badm and horsemint. It is a warm diaphoretic, anti-emetic, and carminative; used in flatulent colies, rheumatism, &c. The distilled oil, according to the control of the programme of the programme of the control of the programme of the college of the control conts, meumatism, εξ. Ane tustine at a coordinate to Dr. Attee, is one of the most powerful rubefacients."

—Big. Mat. Med. A.]

MÖNADE'LPHIA. (From μονος, alone, and αδελ φτα, a brotherhood.) The name of a class of plants in

 $\phi(a)$ , a brotherhood.) The name of a class of plants in the sexual system of Linnaus, consisting of plants with hermaphrodite flowers, in which all the stamina are united below into one body or cylinder, through

which the pistil passes MONA'NDRIA. ( which the pissin passes. MONA'NDRIA. (From \$\mu0705\$, alone, and \$avnp\$, a husband.) The name of a class of plants in the sexual system of Linneus, consisting of plants with hermaphrodite flowers, which have only one stamen.

MONE LLI. A species of Anagallis.
MONEY-WORT. See Lysimachia nummularia.
MONILIFORMIS. (Monile, an organism for any

part of the body, especially a necklace or colfar.) Moniliform: applied to the pod of the Hedysarum monthforum from its necklace appearance.

Monk's rhubarb. See Rumer alpinus.

MONOCOTYLEDON. (I com poros, one, and korthologous, a cotyledon.) Having one cotyledon.

MONOCOTYLEDONES. A tribe of plants which are supposed to have only one cotyledon; as the grass and corn tribe, palms, and the orchis family. See Catalledon. Cotuledon

MONO'CULUS. (From povos, one, and oculus, an eye.) Monopia. 1. A very uncommon species of monstrosity, in which there is but one eye, and that mostly above the root of the nose.

2. Intestinum manoculum is the name given to the cæcum, or blind gut, by Paracelsus, because it is perforated only at one end.

[3. A genus of crustacea, to which belongs the great korse-foot of America, or the Monoculus Polyphe-

MONGE CIA. MONGECIA. (From povos, alone, and oikia, a house.) The name of a class of plants in the sexual system of Linnaus, consisting of those which have male and female organs in separate flowers, but on the same plant.
MONOGY'NIA.

MONOGY'NIA. (From μονος, alone, and γωνη, a woman, or wife.)—The name of an order of plants in the sexual system of Linnaus. It contains those plants which, besides their agreement in the classic character, have only one style.

(From μυνος, single, and ημερα, a MONOHE MERA.

AONOICUS (From μονος, one, and οικια, a ouse.) Linneus calls flowers monoici, monorceous, when the stamens and pistils are situated in different flowers, on the same individual plant; because they are confined to one house, as it were, or dwelling; and if the barren and fertile flowers grow from separate Mono Machon. The intestinum cacum.

Moso Machon. The intestinum cacum. Monoracions (From povog) stude, and approput, to compress.) A pain in only one side of the head. MONOPHYLLUS. (From povog, one, and godalog, a leaf.) One leated: having only one leaf applied to the perianthium of flowers; thus the flower-cup of the Datura stramonium is monophyllous, or formed of one leaf.

MONO PIA. (From povos, single, and wy, the eye.) Sec . Monoculu.

MONO'RCHIS. RCHIS. (From μονος, one, and ορχις, a An epithet for a person that has but one testicle.)

MONRO, ALEXANDER, was born in London, of Scotch parents, in 1697. His father, who was an army surgeon, settled afterward at Edinburgh, and took great surgeon, settled atterward at Edinburgh, and took great interest in his education. At a proper age, he sent him to attend Cheselden in London, where he displayed great assiduity, and laid the foundation of his celebrated work on the bones; he then went to Paris, and in 1718 to Leyden, where he received the particular commendation of Boerhaave. Returning to Edinburgh the following year, he was appointed professor and demonstrator of anatomy to the Company of Surgeons, and soom after the began to give public lectures on that and soon after he began to give public lectures on that subject, Dr. Alston at the same time taking up the Materia Medica and Botany. This may be regarded as the opening of that medical school, which has since extended its fame throughout Europe and even to America. The two lectoreships were placed upon the university establishment in 1720, and others shortly added to complete the system of medical education; but an opportunity of seeing practice being still wanting, Dr. Monro pointed out in a pamphlet the advantages of such an institution; the Royal Infirmary was therefore established and he commenced Clinical Lecturer on Sur-; and Dr. Rutherford afterward extended the plan None of the new professors contrito Medical cases. buted so much to the celebrity of this school as Dr. Monro, not only by the diligent and skilful execution of the duties of his office, but also by various ingenious and useful publications. He continued his lectures during upwards of six months annually for nearly forty years, and acquired such reputation, that students flocked to him from the nost distant parts of the kingdom. His first and chief work was his "Osteclo23." in 1726, intended for his pupils; but which cocurrence of mousters in the brute creation, in which

part of the body, especially a necklace or collar.)

Moniliform: applied to the pod of the Hedysarum moniliform is necklace appearance.

Became very popular, passed through numerous editions, and was translated into most European languages: he afterward added a concise description of guages: he afterward added a concise description of the lacted the nerves, and a very accurate account of the lacteal the nerves, and a very accurate account of the lacteal system and thoracic duct. He was also the father and active supporter of a society, to which the public was indebted for six volumes of "Medical Essays and Observations." he acted as secretary, and had the third labour in the publication of these, besides having contributed many valuable papers, especially an elaborate "Essay on the Nutrition of the Fatus." The rate "Essay on the Nutrino of the Tetus." The plan of the society was afterward extended, and three volumes of "Essays Physical and Literary" were published, in which Dr. Monro has several useful papers. His last publication was an "Account of the Success of Inoculation in Scotland." He left, how-Success of thochanon in Scorana. The text, now-ever, several works in manuscript; of which a short "Treatise on Comparative Anatomy," and his oration "De Cuticula," have been since given to the public. In 1759, Dr. Monro resigned his anatomical chair to his son, but continued his Clinical lectures; he exerted himself also in promoting almost every object of public utility. He was chosen a fellow of the Royal Society of London, and an honorary member of the Royal Academy of Surgery at Paris. He died in 1767.

MONS. A mount, or hill.

Mons veneris. The triangular eminence immediately overthe os pubis of women, that is covered with

MONSTER. Lussus nature. Dr. Denman divides monsters into, 1st, Monsters from redundance or multiplicity of parts; 2d, Monsters from deficiency or want of parts; 3d, Monsters from confusion of parts. To these might perhaps be added, without impropriety, another kind, in-which there is neither redundance, nor deficiency, nor confusion of parts, but an error of place, as in transposition of the viscera. But children born with diseases, as the hydrocephalus, or their effects, as in some cases of blindness, from previous inflammation, cannot be properly considered as monsters, though they are often so denominated.

Of the first order there may be two kinds; redundance or multiplicity of natural parts, as of two heads and one body, of one head and two bodies, an increased number of limbs, as legs, arms, fingers, and toes: or excessences or additions to parts of no certain form, as those upon the head and other parts of the body. is not surprising that we should be ignorant of the manner in which monsters or irregular births are generated or produced; though it is probable that the laws by which these are governed are as regular, both as to cause and effect, as in common or natural productions. Formerly, and indeed till within these few years, it was a generally received opinion, that monsters were not primordial or aboriginal, but that they were caused subsequently, by the power of the imagination of the mother, transferring the imperfection of some external object, or the mark of something for which she longed, and with which she was not indulged, to the child of which she was pregnant; or by some accident which happened to her during her pregnancy. Such opinions, it is reasonable to think, were permitted to pass current, in order to protect pregnant women from all hazardous and disagreeable occupations, to screen them from severe labour, and to procure for them a greater share of indulgence and tenderness than could be granted to them in the common occurrences of life. The laws and customs of every civilized nation have, in some degree, established a persuasion that there was something sacred in the person of a pregnant woman; and this may be right in several points of view; but these only go a little way towards justifying the opinion of monsters being caused by the imagination of the mother. The opinion has been disproved by common observation, and by philosophy, not perhaps by positive proofs, but by many negative facts: as the improbability of any child being born perfect, had such a power existed; the freedom of children from any blemish, their mothers being in situations most exposed to objects likely to produce them; the ignorance of the mother of any thing being wrong in the child, till, from information of the fact, she begins to recollect every accident which happened during her pregnancy, and assigns the worst or the most plausible, as the cause; the organization and colour of these adventitious substances; the frequent

the power of the imagination cannot be great; and | years before of the first part of his "Adversaria Anathe analogous appearances in the vegetable system. where it does not exist in any degree. Judging, however, from appearances, accidents may perhaps be allowed to have considerable influence in the pro-duction of monsters of some kinds, either by actual injury upon paris, or by suppressing or derauging the principle of growth, because, when an arm, for in-

principle of growth, because, when an arm, for in-stance, is wanting, the rudiments of the deficient parts may generally be discovered.

MONTMARTRITE. A mimeral compound of sul-phate and carbonate of lime, that stands the weather, which common gypsum does not. It is found at Mont-

martre, near Paris. MOONSTONE.

MOONSTONE. A variety of adularia.

["MOONE, WILLIAM, M. D. This ornament of the profession and of Christianity, was born at Newtown, on Long-Island, state of New-York, in 1754. His father Samuel, and his grandfather Benjamin, Moore, were agriculturists. He received the rudiments of a classical education under the tuition of bis elder brother, afterward bishop Moore, and president for many years of Columbia college. He attended the lectures on medicine delivered by Drs. Clossey and Samuel Bard.

In 1778 he went to London, and thence to Edinburgh. In 1780 he was graduated doctor of medicine, which occasion he published his dissertation De Bile. For more than forty years he continued unremittingly engaged in the arduous duties of an extensive practice engaged in the armonis unitered an armonistic practice, particularly in midwifery, estimating his number of cases at about three thousand. He died in the seventy-first year of his age, in April, 1824.

The medical papers of Dr. Moore may be found in

the American Medical and Philosophical Register, the New-York Medical Repository, and the New-York Medical and Physical Journal. For many years Dr. Moore was president of the Medical Society of the county of New-York, and an upright and vigilant trustee of the College of Physicians and Surgeons. On his death the College recorded their testimony to his pre-eminent worth."—Thuch. Med. Bing. A.]

MORBI'I.LI. (Diminutive of morbus, a disease.)

See Rubcola. MORBUS.

A disease.

The jaundice. MORBUS ARQUATUS.

Morbus attentius. The company of the Morbus coxarius. See Arthropusis. Morbus Gallicus. The veneral disease. Morbus herculeus. The epilepsy. MORBUS ATTONITUS. The epilepsy, and apoplexy.

Morbus HERCULEUS. The epilepsy.
Morbus Indicus. The venereal disease.

Morbus indicus. The veneral Morbus infantilis. The epilepsy.

MORBUS INFANTIS. The epilopsy.

MORBUS MAGNUS. The black disease. So Hi Morros Morro. The black disease. So Hippo-crates named it, and thus described it. This disorder is known by vomiting a concrete blood of a blackish red colour, and mixed with a large quanty of inspid acid, or viscid phlegm. This evacuation is generally preceded by a pungent tensive pain, in both the hypo-chondria; and the appearance of the disease is attend-duction, where a conversive pain in the pracordiaed with anxiety, a compressive pain in the pracordia, and fainting, which last is more frequent and violent, when the blood which is evacuated is fætid and cor-The stomach and the spleen are the principal,

find the proper seat of this desase.

Mornus restus. The jaundice.

Mornus restus. The pinelpsy.

MORDANT. In dying, the substance combined with the vegetable or animal fibre, in order to fix the

dye-stuff. MOREL. See Phallus esculentus.

More'TUS. (From morum, the mulberry.) A decoction of mulberries.

MORGAGNI, GIAMBATISTA, was born at Forli in 1692. He commenced his medical studies at Bologna, and displayed such ardour and talent, that Valsalva availed himself of his assistance in his researches into the organ of hearing, and in drawing up his memoirs on that subject. He also performed the professorial duties during the temporary absence of Valsalva, and by his skill and obliging manners procured general esteem. He afterward prosecuted his studies at Venice and Padua, and then settled in his native place. He soon, however, perceived that this was too contracted a sphere for his abilities; wherefore he returned to Padua, where, a vacancy soon occurring, he was nominated, in 1711, to teach the theory of physic. He had He had already distinguished himself by the publication five other qualities, Klaproth has provisionally given it the

years before of the first part of his "Adversaria Ana-tonica," a work remarkable for its accuracy, as well as originality; of which, subsequently, five other parts appeared. He assisted Lancis in preparing for publi-cation the valuable drawings of Eustachius, which came out in 1714. The following year he was appoint-d to the first anatomical was facilities. But the coned to the first anatomical professorship in Padua; and from that period ranked at the head of the anatomists of his time. He was also well versed in general litera-ture, and other subjects not immediately connected with his profession: and honours were rapidly accumulated upon him from every quarter of Europe. He was distinguished by the particular esteem of three successive Popes, and by the visits of all the learned and great, who came into his neighbourhood; and his native city placed a bust of him in their public hall during his life, with an honorary inscription. Though he had a large family, he accumulated a considerable property by his industry and economy; and by means property by his industry and economy; and by means of a good constitution and regular habits, he attained the advanced age of 90. Besides the Adversaria he published several other works, two quarto volumes of automical epistles, an essay on the proper method of acquiring medical science, which appeared on his appairing medical science, which appeared on his appairing the state of acquiring medical science, which appeared on his ap-pointment to the theoretical clair, &c. But that which has chiefly rendered lis name illustrious is entitled "De Sedibus et Causis Morborum," printed at Venica in 1760. It contains a prodigious collection of dissec-tions of morbid bodies, made by Valsalva and himself, arranged according to the organs affected. He follow-ed the plan of Bonetus; but the accuracy of his details renders the collection far superior in value to any that had preceded it

had preceded it.

MO RIA. (From μωρος, foolish.) The name of a genus of diseases in Good's Nosology. Class, Neurotica; Order, Phrenica. Idiotism. Fatuity. It has two species, Moria imbecilitis, demens.

Mo'Ro. (From morum, a mulberry.) A small ab-

scess resembling a mulberry.

Moro'sis. (From μωρος, foolish.) See Amentia.

MOROXYLATE. A compound of moroxylic acid

with a salifiable basis with a salifiable basis.

MOROXY LIC ACID. (.ficidum mororylicum; from morus, the mulberry-tree, and ¿v\(\text{lov}\), wood; because it is found on the bark or wood of that tree.) In the botanic garden at Palerino, Mr. Thompson found an uncommon saline substance on the trunk of a white mulberry-tree. It appeared as a coating on the surface mulberry-tree. It appeared as a coating on the surface of the bark in little ganulous drops of a yellowish and blackish-brown colour, and had likewise penetrated its substance. Klaproth, who analyzed it, found that its taste was somewhat like that of succinic acid; on burning coals, it swelled up a little, emitted a pungent vapour scarcely visible to the eye, and left a slight earthy residuum. Six hundred grains of the bark loaded with it were lixiviated with water, and afforded 320 grains of a light salt, resembling in colour a light wood, and composed of short needles united in radii, It was not deliquescent; and though the crystals did not form till the solution was greatly condensed by evaporation, it is not very soluble, since 1000 parts of water dissolve but 35 with heat, and 15 cold.

This salt was found to be a compound of lime and a peculiar vegetable acid, with some extractive

matter.

To obtain the acid separate, Klaproth decomposed the calcareous salt by acetate of lead, and separated the lead by sulphuric acid. He likewise decomposed directly by sulphuric acid. The product was still more like succinic acid in taste; was not deliquescent; easily like succinic acid in taste; was not desiquescent; easily dissolved both in water and alkohol; and did not precipitate the metallic solutions, as it did in combination with lime. Twenty grains being slightly heated in a small class retor, a number of drops of an acid liquor first came over; next a concrete salt arose, that adhered that against the top and part of the neck of the retort in the form of prismatic crystals, colourless and transpacent; and a coaly residuum remained. The acid was then washed out, and crystallized by spontaactor was their washed or, and cryater to be the best mode of purifying the salt, but it adhered too strongly to the lime to be separated from it directly by heat without being decomposed.

Not having a sufficient quantity to determine its specific characters, though he conceives it to be a peculiar acid, coming nearest to the succinic both in taste and

cles of cutaneous leprosy. See Lepra alphos.

MORPHIA. Morphine. A new vegetable alkali,

attracted from opium, of which it constitutes the nar-cotic principle. See Papawer somniferum. MORPHINE. See Morphia. MORSE'LLUS. A-lozenge.

Morse'Llus. A lozenge.

Morsulus. An ancient name for that form of me dicine which was to be chewed in the mouth, as a lozenge; the word signifying a little mouthful.

Mo'RSUS DIABOLI. The fimbrize of the Fallopian

tubes.

Hibes. Mo'RTA. See Pemphigus.
Mo'RTAR'OLUM. (Dim. of mortarium, a mortar.)
In chemistry, it is a sort of mould for making cupels
with; also a little mortar. In anatomy, it is the sockets

of the teeth.

MORTIFICATION. (Mortificatio; from mors, death, and fio, to become: Gangrena; Sphacelus. The loss of vitality of a part of the body. Surgeons divide mortification into two species, the one preceded by inflammation, the other without it. In inflammation, the other without it. tions that are to terminate in mortification, there is a diminution of power joined to an increased action; this becomes a cause of mortification, by destroying the balance of power and action, which ought to exist in every part. There are, however, cases of mortification that do not arise wholly from that as a cause of this kind are the carbuncle, and the slough, formed in the small-pox pustule. Healthy phlegmonous inflammation seldom ends in mortification, though it does so when very vehement and extensive. Erystpelatous inflammation is observed most frequently to terminate in gangrene; and whenever phlegmon is in any degree conjoined with an erysipelatous affection, which it not unfrequently is, it seems thereby to acquire the same tendency, being more difficult to bring to resolution, or suppuration, than the true phlegmon, and more apt to run into a mortified state.

Causes which impede the circulation of the part affected, will occasion mortification, as is exemplified

in strangulated hernia, tied polypi, or a limb being de-prived of circulation from a dislocated joint. Preventing the entrance of arterial blood into a limb, is also another cause. Paralysis, conjoined with pressure, old age, and ossification of the arteries, may produce mortification; also cold, particularly if followed by the sudden application of warmth; and likewise excessive heat applied to a part.

The symptoms of mortification that take place after inflammation are various, but generally as follows: the pain and sympathetic fever suddenly diminish, the part affected becomes soft, and of a livid colour, losing at the same time more or less of its sensi-

When any part of the body loses all motion, sensibility, and natural heat, and becomes of a brown livid or black colour, it is said to be affected with sphacelus. When the part becomes a cold, black, fibrous, senseless substance, it is termed a slough. As long as any less substance, it is termed a slough. As long as any sensibility, motion, and warmth continue, the state of the disorder is said to be gangrene. When the part has become quite cold, black, fibrous, incapable of moving, and destitute of all feeling, circulation, and life; this is the second stage of mortification, termed sphacelus.

When gangrene takes place, the patient is usually troubled with a kind of hiccough: the constitution always suffers an immediate dejection, the countenance assumes a wild cadaverous look, the pulse becomes small, rapid, and sometimes irregular; cold perspirations come on, and the patient is often affected

with diarrhœa and delirium.

MORTON, RICHARD, was born in Suffolk, and after taking the degree of Bachelor of Arts at Oxford, offi-ciated for some time as a chaplain: but the intole-rance of the times, and his own religious scruples, compelled him to change for the medical profession. He was accordingly admitted to his doctor's degree in 1670, having accordingly admitted to Crange 10. 1670. having accompanied the Prince of Orange to Oxford, as physician to his person. He afterward settled in London, became a Fellow of the College, and obtained a large share of the city practice. He died in 1698. His works have had considerable reputation, and evince some acuteness of observation, and acti-

name of moroxylic, and the calcareous salt containing it, that of moroxylate of lime.

MORPHE'A ALBA. (From μορφη, form.) A spe-vailed; and sanction a method of treatment in acute vailed; and struction a method of treatment in acute diseases, which his more able contemporary, Syden han, discountenanced, and which subsequent experience has generally discarded. His first publication was an attempt to arrange the varieties of consumption, but not very successfully. His "Pyretologia" came out in two volumes, the first in 1691, the other at an interval of three years; in this work, especially, the stimulant treatment of fevers is carried to an unusual extent, and a more general use of cinchona recommended

MO'RUM. See Morus nigra.
MO'RUS. (From uavoos, black; so called from the MORUS. (From laupos, black, so cancer from colour of its fruit when ripe.) The name of a genus of plants in the Linneau system. Class, Monacia; Order, Tetrandria. The milberty-tree.

Morus Nigra. The systematic name of the multiple of Lineau of the multiple of the multiple of Lineau of the multiple of Lineau of the multiple of Lineau of the multiple of the multiple of the multiple of Lineau of the multiple of the mul

berry-tree. Morus—foliis cordatis scabris, of Linneus. Mulberries abound with a deep violet-coloured juice, which, in its general qualities, agrees with that of the fruits called acido-dulces, allaying thirst, partly by refrigerating, and partly by exciting an excretion of mucus from the mouth and fauces; a similar effect is also produced in the stomach, where, by correcting putrescency, a powerful cause of thirst is removed. The London College directs a syrupus mari, which is an agreeable vehicle for various medicines. of the root of this tree is said, by Andrée, to be useful in cases of tænia.

Mosaic gold. See Aurum musivum.

MOSCHA'TA NUX. See Myristica moschata. MO'SCHUS. (Mosch, Arabian.) Musk. See Mos-

chus moschiferus.

MOSCHUS MOSCHIFERUS. The systematic name of the musk animal, a ruminating quadruped, resembling the antelope. An unctuous substance is contained in excretory follicles about the navel of the male animal, the strong and permanent smell of which is peculiar to It is contained in a bag placed near the umbilical region. The best musk is brought from Tonquin, in China; an inferior sort from Agria and Bengal, and a still worse from Russia. It is slightly unctuous, of a black colour, having a strong durable smell and a bitter taste. It yields part of its active matter to water, by infusion; by distillation the water is impregnated with its flavour; alkohol dissolves it, its impurities excepted. Chewed, and rubbed with a knife on paper, it looks bright, yellowish, smooth, and free from grittiness. Laid on a red-hot iron, it catches flame and burns almost entirely away, leaving only an exceedingly small quantity of light grayish ashes. If any earthy substances have been mixed with the musk, the impurities will discover them. The medicinal and chemical properties of musk and castor are very similar: the virtues of the former are generally believed to be more powerful, and hence musk is preferred in cases of imminent danger. It is prescribed as a pow-ful antispasmodic, in doses of three grains or upwards, even to half a drachm, in the greater number of spasmodic diseases, especially in hysteria and singultus, and also in diseases of debility. In typhus, it is em-ployed to remove subsultus tendinum, and other symp-toms of a spasmodic nature. In cholera, it frequently stops vomiting; and, combined with ammonia, it is given to arrest the progress of gangrene. It is best given in the form of bolus. To children, it is given in the form of enema, and is an efficacious remedy in the convulsions arising from dentition. It is also given in hydrophobia, and in some forms of mania.

Mosqui'TA. (From mosquita, a gnat, Spanish.)
An itching eruption of the skin, produced in hot cli-

mates by the bite of gnats.

The best cinnamon. Mosy'LLUM. Mooulkov.

Mother of them. See Thymus serpytlum.

MOTHER-WATER. When sea-water, or any other solution containing various salts, is evaporated, and the crystals taken out, there always remains a fluid containing deliquescent salts, and the impurities, if present. This is called the mother-water. present. This is called the mother-water.
MOTHERWORT. See Leonurus cardiaca.

MOTHER WORL: See Leonurus cardiaca.
MOTION. See Muscular motion.
Motion, peristaltic. See Peristaltic motion.
MOTO RES OCULORUM. (Nervi motores oculorum: so called because they supply the muscles which move the eye.) The third pair of nerves of the brais.

Mountain cork. See Asbestos.

Mountain green. Common copper green, a car-

Mountain leather. See Asbestos. Mountain parsley, black. See Athamanta ercoselinum

Mountain soap. See Soap, mountain.

Mountain vood. See Asbestos.
MOUSE-EAR. See Hieracium pilosella.
MOUTH. Os. The cavity of the mouth is well
known. The parts which constitute it are the common integuments, the lips, the muscles of the upper and under jaw, the palate, two alveolar arches, the gums, the tongue, the cheeks, and salival glands. The bones of the mouth are the two superior maxillary, two palatine, the lower jaw, and thirty-two teeth. The arteries of the external parts of the mouth are branches of the infra-orbital, inferior alveolar, and facial arteries. The veins empty themselves into the external jugulars. The nerves are branches from the fifth and seventh pair. The use of the mouth is for mastication, speech, respiration, deglutition, suction, and teste.

MO'XA. A Japanese word. See Artemisia chinensis.

MOXA JAPANICA. See Artemisia chinensis.
MUCIC ACID. (Acidum mucicum; from mucus, it being obtained from gum.) "This acid has been generally known by the name of saccholactic, because it was first obtained from sugar of milk; but as all the gums appear to afford it, and the principal acid in sugar of milk is the oxalic, chemists in general now distinguish it by the name of mucic acid.

It was discovered by Scheele. Having poured twelve ounces of diluted nitric acid on four ounces of Having poured powdered sugar of milk in a glass retort on a sand bath, the mixture became gradually hot, and at length effervesced violently, and continued to do so for a con-siderable time after the retort was taken from the fire. It is necessary, therefore, to use a large retort, and not to lute the receiver too tight. The effervescence that ing nearly subsided, the retort was again placed on the sand heat, and the nitric acid distilled off, till the mass had acquired a yellowish colour. This exhibit mass had acquired a yellowish colour. This exhibiting no crystals, eight ounces more of the same acid were added, and the distillation repeated, till the yellow colour of the fluid disappeared. As the fluid was inspissated by cooling, it was redissolved in eight ounces of water, and filtered. The filtered liquor build was the colour of the fluid was the produced by cooling it was redissolved in eight ounces of water, and filtered. The filtered liquor held oxalic acid in solution, and seven drachms and a half of white powder remained on the filter. This

powder was the acid under consideration.

If one part of gum be heated gently with two of nitric acid, till a small quantity of nitrous gas and of carbonic acid is disengaged, the dissolved mass will deposite on cooling the mucic acid. According to Fourcroy and Vauquelin, different gums yield from 14

to 26 hundredths of this acid

This pulverulent acid is soluble in about sixty parts of hot water, and, by cooling, a fourth part separates an small shining scales, that grow white in the air. It decomposes the muriate of barytes, and both the nitrate and muriate of lime. It acts very little on the metals, but forms with their oxides salts scarcely soluble. It precipitates the nitrates of silver, lead, and mercury. With potassa it forms a salt soluble in eight parts of boiling water, and crystallizable by cooling. That of soda requires but five parts of water, and is equally crystallizable. Both these saits are still more soluble when the acid is in excess. That of ammonia de deprived of its base by heat. The saits of barytes, lime, and magnesia, are nearly insoluble."

MUCILAGE. Mucilago. An aqueous solution of

m. See Gum.
MUCILAGINOUS. Gummy.
Extracts that readily dissolve in water, scarcely at all in spirits of wine, and

dissolve in water, scarcery at all the springer white, and undergo spirituous fermentation.

MUCILA'GO. (Mucilage.) See Gum.

Mucilago acacta. Mucilage of acacia. Mucilago gummi arabici.—Take of acacia gum, powdered, four ounces; boiling water, half a pint. Rub the gum with the water, gradually added, until it incorporates into a raucilage. A demulcent preparation, more fre-

They arise from the crura cerebri, and are distributed on the muscles of the bulb of the eye.

MOTO'RI. See Motores oculorum.

MOULD. See Fintanella.

MUCILAGO AMYLL Starch mucilage.—Take of starch, three drachms; water, a pint. Rub the starch, MUCILAGO AMYLL Starch mucilage.—Take of starch, three drachms; water, a pint. Rub the starch, gradually adding the water to it; then boil until it incorporates into a mucilage. This preparation is mostly exhibited with opium, in the form of clyster in diarrhoras and dysenteries, where the tenesmus arises from an abrasion of the mucus of the rectum.

MUCILAGO ARABICI GUMMI. See Mucilago acacia. MUCILAGO SEMINIS CYDONII. See Decoctum cy-

MUCILAGO TRAGACANTHE. Mucilage of traga-canth, joined with syrup of mulberries, forms a plea-sant demulcent, and may be exhibited to children, who are fond of it. This mucilage is omitted in the last London Pharmacopæia, as possessing no superiority over the mucilage of acacia.

Mucoca'rnrus. In M. A. Severinus, it is an epithet

for a tumour, and an abscess, which is partly fleshy and partly mucous.

MUCOUS. Of the nature of mucus.

MUCOUS ACID. See Mucic acid.
MUCOUS GLANDS. Glandulæ mucosæ. Mucipalous glands. Glands that secrete mucus, such as the glands of the Schneiderian membrane of the nose, the glands of the fauces, esophagus, stomach, intestines, bladder, urethra, &c. MUCRONATUS.

MUCRONATUS. (From mucro, a sharp point.)
Sharp-pointed. See Cuspidatus.
MUCUS. (From nvia, the mucus of the nose.) A
name given to the two tollowing substances.

1. Mucus, animal. One of the primary fluids of an
animal hody, neglectly distinct from agictic and 1. Mucus, animai. One of the primary fluids of an animal body, perfectly distinct from gelatin, and vegetable mucus. Tamin, which is a delicate test for gelatin, does not affect mucus. "This fluid is transparent, glutimous, thready, and of a sait savour; it reddens paper of turnsole, contains a great deal of water, nuriate of potassa and soda, lactate of lime, of soda, and phosphate of lime. According to Fourcroy and Vauquelin, the mucus is the same in all the mucus membranes. On the contrary, Berzelius thinks it variable according to the points from which it is extracted.

The mucus forms a layer of greater or less thickness at the surface of the mucous membranes, and it is renewed with more or less rapidty; the water it contains evaporates under the name of mucous exhalation; it also protects these membranes against the action of it also protects these membranes against the action of the air, of the aliment, the different glandular fluids, &c.; it is, in fact, to these membranes nearly what the epidermis is to the skin. Independently of this general use, it has others that vary according to the parts of mucous membranes. Thus, the mucus of the mose is favourable to the smell, that of the mouth gives facility to the taste, that of the stomach and the integer tines assists in the digestion, that of the genital and urinary ducts serves in the generation and the secretion of the urine, &cc.

A great part of the mucus is absorbed again by the

membranes which secrete it; another part is carried outwards, either alone, as in blowing the nose, or spitting, or mixed with the pulmonary transpiration, or else mixed with the excremental matter, or the

urine, &cc.

Animal mucus differs from that obtained from the vegetable kingdom, in not being soluble in water, swimming on its surface, nor capable of mixing oil with water, and being soluble in mineral acids, which vegetable mucus is not.

egetane mucus is not.
2. Mucus, vegetable. See Gum.
MUGWORT. See Artemisia vulgaris.
Mugwort, China. See Artemisia chinensis.
Mu'Læ. Pustules contracted either by heat or cold.
MULBERRY. See Morus Nigra.
MULLEIN. See Verbascum.
Mu'Lsew. See Hydrometi.

MU'LSUM. See Hydromeli. MULTI'FIDUS SPINÆ. (From multus, many, and findo, to divide.) Transverso-spinalis lumborum; Musculus sacer; Semi-spinalis internus, sive trans verso spinalis dorsi; Semi-spinalis, sive transverso-spinalis calli, pars interna, of Winslow. Transversalis lumborum vulgo sacer; Transversalis dorsi; Transversalis colli, of Douglas. Lumbo dorsi spinal, of Dumas. The generality of anatomical writers have unnecessarily multiplied the muscles of the spine, and hence their descriptions of these parts are confused.

and difficult to be understood. Under the name of multiplus spina, Albinus has, therefore, very properly included those portions of muscular flesh, intermixed with tendinous fibres, which he close to the posterior part of the spine, and which Douglas and Winslow have described as three distinct muscles. Wilsow have described as three distinct muscles, under the names of transversales, or transverse spenales, of the loins, back, and neck. The multifidus spine arises tendinous and fleshy from the upper convex surface of the os sacrum, from the posterior adjoining part of the ilium, from the oblique and transverse processes of all the lumbar vertebra, from the trans verse processes of all the dorsal vertebras, and from those of the cervical vertebra, excepting the three first. From all these origins the fibres of the muscles run in an oblique direction, and are inserted, by distinct tendons, into the spinous processes of all the vertebras of adois, into the spinous processes of all the vertebrae of the loins and back, and likewise into those of the six inferior vertebrae of the neck. When this muscle acts singly, it extends the back obliquely, or moves it to one side; when both muscles act, they extend the vertebræ backwards.

MULTIFLORUS. Many-flowered. Applied to the flower-stalk of plants, which is so called when it bears many flowers; as the Daphne laurcola. See Peduncu-

MULTIPO'RME OS. See Ethmoid bone.

MU LTIPES. (From multus, many, and pes, a foot.) The wood-louse.

2. The polypus.

3. Any animal having more than four feet.

MUMPS. See Cynanche parotidea.
MUNDICATI'VA. (From mundo, to cleanse.) Mundificantia. Medicines which purify and cleanse away

MUNDIFICA'NTIA. See Mandicativa.

Mt'NGOS. See Ophiorrhiza mungos.

MURA'LIS. (From murus, a wall; so called because it grows upon walls.) Pellitory. See Parataria.

MURA'RIA. (From murus, a wall; because it grows about walls.) A species of maiden-hair: the Asplenium murale.

MURIACITE. Gypsum.

MU'RIAS. A muriate, or salt, formed by the union of the muriatic acid with salifiable bases; as muriate of ammonia, &c.

MURIAS AMMONIE. See Sal ammoniac.
MURIAS ANTIMONII. Butter of antimony. Formerly used as a caustic.

MURIAS BARYTE. See Barytes.
MURIAS CALCIS. See Catz.
MURIAS CALCIS. See Catz.
MURIAS FERRI. Ferrum salitum; Oleum martis
per deliquium. This preparation of iron is styptic and tonic, and may be given in chlorosis, intermittents, rachitis, &cc.

MURIAS FERRI AMMONIACALIS. See Ferrum ammomiatum.

MURIAS HYDRARGYRI. There are two muriates of mercury. See Hydrargyri submurias, and Hydrargyri oxymurias.

MURIAS HYDRARGYRI AMMONIACALIS. See Hydrar-

gyrum præcipitatum album.

MURIAS HYDRARGYRI OXYGENATUS. See Hydrargyri oxymurias.

Alkali vegetabile salitum ; Sal MURIAS POTASSÆ. digestivus; Sal febrifugus Sylvii. This salt is ex-hibited with the same intention as the muriate of soda, and was formerly in high estimation in the cure of intermittents, &c.

MURIAS POTASS & OXYGENATUS. Chlorate of potassa The oxygenated muriate of potassa has lately been ex tolled in the cure of the venereal disease. It is ex-hibited in doses of from fifteen to forty grains in the course of a day. It increases the action of the heart and arteries, is supposed to oxygenate the blood; and prove of great service in scorbutus, asthenia, and cachectic diseases.

MURIAS SODE. See Sodæ murias.

MURIAS STIBII. See Murias antimonii.

(Muriaticus; from muria, brine., MURIATIC.

Belonging to sea salt.

Belonging to sea salt.

MURIATICACID. Acidum muriaticum. The HydroMURIATICACID. Acidum muriaticum. The Hydrochlorie of the French chemists. Let six parts of pure
and well dried sea salt be put into a glass retort, to the
back of which is luted, in a horizontal direction, a long
glass tube artificially refrigerated, and containing a
quantity of ignited muriate of lime. Upon the salt

62 parts by weight of muriatic acid gas, these ought to

pour at intervals five parts of concentrated oil of vitriols pour at interview rive parts or concentrated 00101 villofs through a syphon funcel, fixed an orght, in the tubulure of the retort. The free end of the long tube being re-curved, so as to dip into the mercury of a pneumatic trough, a gas will issue, which, on coming in contact with the air, will form a visible cloud, or haze, presenting, when viewed in a vivid light, prismatic colours. This gas is murratic acid.

When received in glass jars over dry mercury, it is invisible, and possesses all the mechanical properties of air. Its odour is pungent and peculiar. Its taste acid and corrosive. Its specific gravity, according to Sir H. Davy, is such, that 100 cubic inches weigh 39 grains, while by estimation, he says, they ought to be 38.4 gr. It an inflamed taper be immersed in it, it is instantly extinguished. It is destructive of animal life; but the irritation produced by it on the epiglottis scarcely permits its descent into the lungs. It is merely changed in bulk by alterations of temperature; it experiences no

change of state.

When potassium, tin, or zinc, is heated in contact with this gas over mercury, one half of the volume disappears, and the remainder is pure hydrogen. On examining the solid residue, it is found to be a metallic Hence muriatic acid gas consists of chlorine chloride. and hydrogen, united in equal volumes. This view of its nature was originally given by Scheele, though ob-semed by terms derived from the vague and visionary hypothesis of phlogiston. The French school afterward introduced the belief that muriatic acid gas was a compound of an unknown radical and water; and that chlorine consisted of this radical and oxygen. Sir H Davy has proved, by decisive experiments, that in the present state of our knowledge, chlorine must be regarded as a simple substance; and muriatic acid gas, as a compound of it with hydrogen.

Muriatic acid, from its composition, has been termed by Lussac the hydrochloric acid; a name objected to by Sir H. Davy. It was prepared by the older chemists in a very rude manner, and was called by them spirit of

In the ancient method, common salt was previously decrepitated, then ground with dried clay, and kneaded or wrought with water to a moderately stiff consistence, after which it was divided into balls of the size of a pigeon's egg; these balls, being previously well dried, were put into a retort, so as to fill the vessel two-thirds full; distillation being then proceeded upon, the muriatic acid came over when the heat was raised to ignition. In this process eight or ten parts of clay to one of salt are to be used. The retort must be of stoneware well coated, and the furnace must be of that kind called reverberatory.

It was formerly thought, that the salt was merely di-

vided in this operation by the clay, and on this account more readily gave out its acid: but there can be little doubt, that the effect is produced by the silicious earth, which abounds in large proportions in all natural clays, and detains the alkali of the salt by combining with it.

Sir H. Davy first gave the just explanation of this de-composition. Common salt is a compound of sodium and chlorine. The sodium may be conceived to combine with the oxygen of the water in the earth, and with the earth itself, to form a vitreous compound: and the chlorine to unite with the hydrogen of the water, forming muriatic acid gas. 'It is also easy,' water, forming muriatic acid gas. 'It is also easy,' adds he, 'according to these new ideas, to explain the decomposition of salt by moistened litharge, the theory of which has so much perplexed the most acute cheor which has so much perpected the most acute chemists. It may be conceived to be an instance of compound affinity: the eblorine is attracted by the lead, and the sodium combines with the oxygen of the litharge, and with water, to form hydrate of soda, which gradually attracts carbonic acid from the air. When common salt is decomposed by oil of vitriol, it was usual to explain the phenomenon by saying, that the acid, by its superior affinity, aided by heat, expelled the gas, and united to the soda. But as neither muriatic acid nor soda exists in common acid. gas, and united to the sout. But as better muratic acid nor soda exists in common salt, we must now modify the explanation, by saying that the water of the oil of vitriol is first decomposed, its oxygen unites to

afford, by economical management, nearly 231 parts of ] fiquid acid, specific gravity 1.142, as prescribed by the London College, or 200 parts of acid sp. gr. 1.169, as directed by the Edinburgh and Dublin Pharmaco-

The ancient method of extracting the gas from salt

is now laid aside.

The English manufacturers use iron stills for this distillation, with earthen heads: the philosophical chemist, in making the acid of commerce, will doubtless prefer glass. Five parts by weight of strong sulphuric acid are to be added to six of decrepitated sea salt, in a retort, the upper part of which is furnished with a tube or neck, through which the acid is to be poured upon the salt. The aperture of this tube must be closed with a ground stopper immediately after the pouring.

The sulphuric acid immediately combines with the alkali, and expels the muriatic acid in the form of a peculiar air, which is rapidly absorbed by water. As out the application of heat, and the aerial fluid escapes very rapidly, it is necessary to arrange and lute the ves-sels together before the sulphuric acid is added, and not to make any fire in the furnace until the disengagement begins to slacken; at which time it must be very gra-dually raised. Before the modern improvements in chemistry were made, a great part of the acid escaped want of water to combine with; but by the use of Wolfe's apparatus the acid air is made to pass through water, in which it is nearly condensed, and forms nuriatic acid of double the weight of the water, though the bulk of this fluid is increased one-half only. The acid condensed in the first receiver, which contains no water, is of a yellow colour, arising from the impurities of the salt.

The marine acid in commerce has a straw colour but this is owing to accidental impurity; for it does not obtain in the acid produced by the impregnation of water with the aeriform acid.

The muriatic acid is one of those longest known, and some of its compounds are among those salts with

which we are most familiar.

The muriates, when in a state of dryness, are actually chlorides, consisting of chlorine and the metal; yet they may be conveniently treated of under the title

The muriate of barytes crystallizes in tables bevelled at the edges, or in octahedral pyramids applied base to base. It is soluble in five parts of water at 60°, in still less at a boiling heat, and also in alkohol. It is not altered in the air, and but partly decomposable by heat. The sulphuric acid separates its base; and the alkaline carbonates and sulphates decompose it by double affimiy. It is best prepared by dissolving the carbonate in dilute muriatic acid; and if contaminated with iron read, which occasionally happens, these may be separated by the addition of a small quantity of liquid ammonia, or by boiling and stirring the solution with a little barytes. Goettling recommends to prepare it little barytes. from the sulphate of barytes; eight parts of which, in fine powder, are to be mixed with two of muriate of soda, and one of charcoal powder. This is to be pressed hard into a Hessian crucible, and exposed for an hour and a half to a red heat in a wind furnace The cold mass, being powdered, is to be boiled a minute or two in sixteen parts of water, and then filtered. To this liquor muriatic acid is to be added by little and little, till sulphuretted hydrogen ceases to be evolved. It is then to be filtered, a little hot water to be poured on the residuum, the liquor evaporated to a pellicle, filtered again, and then set to crystallize. As the muriate of soda is much more soluble than the muriate of barytes, and does not separate by cooling, the muriate of barytes will crystallize into a perfectly white salt, and leave the muriate of soda in the mother water, which may be evaporated repeatedly till no more muriate of barytes is obtained. This salt was first employed in medicine by Dr. Crawford, chiefly in scrofulous complaints and cancer, beginning with doses of a few drops of the saturated solution twice a day, and increasing it gradually, as far as forty or fifty drops in some instances. In large doses it excites nausea, and has deleterious effects. Fourcroy says it has been found very successful in scrofula in France. It has likewise been recommended as a vermifuge; and it has been given with much apparent advantage even to very young children where the usual symptoms of worms

occurred, though none were ascertained to be present. As a test of sulphuric acid it is of great use.

As a test or supprinte actuit is of great use. The marriete of potassa, formerly known by the names of febrifuge salt of Sylvens, digestive salt, and regular cubes, or in rectangular paralleloppedons; decreptaining on the fire, without losing much of their acid, and acquiring a little moisture from damp air, and giving it out again in dry. Their taste is saline and bitter. They are soluble in thrice their weight of cold water, and in but little less of boiling water, so as to require spontaneous evaporation for crystallizing. Fourcroy recommends, to cover the vessel with gauze, and suspend hars in it, for the purpose of obtaining regular crystals.

It is sometimes prepared in decomposing sea salt by common potassa for the purpose of obtaining soda; and may be formed by the direct combination of its

constituent parts.

It is decomposable by the sulphuric and nitric acids. Barytes decomposes it, though not completely; both silex and alumina decomposed it partially in the dry way. It decomposes the earthy nitrates, so that it might be used in saltpetre manufactories to decompose the nitrate of lime.

Muriate of soda or common salt, is of considerable use in the arts, as well as a necessary ingredient in our food. It crystallizes in cubes, which are sometimes grouped together in various ways, and not unfrequently grouped together in various ways, and not unfrequently form hollow quadrangular pyramids. In the fire it decrepitates, melts, and is at length volatilized. When pure, it is not deliquescent. One part is soluble in 25 of cold water, and in little less of hot, so that it cannot be crystallized but by evaporation.

Common salt is found in large masses, or under the earth, in England and elsewhere. In the under the earth, in England and elsewhere. In the under the earth, in England and elsewhere. In the solid form it is called sal gem, or rock salt. If it be pure and transparent, it may be immediately used in the state in which it is found; but if it comtain any impure earthy particles, it should be previously freed from them. Insome countries it is found in meredible quantities, and due up like metals from the bowels of the In this manner has this salt been dug out of the celebrated salt mines near Bochnia and Wieliczka, in Poland, ever since the middle of the 13th century, consequently above these 500 years, in such amazing quantities, that sometimes there have been 20,000 tons ready for sale. In these mines, which are said to reach to the depth of several hundred fathoms, 500 men are constantly employed. The pure and transparent sait needs no other preparation than to be beaten to small pieces or ground in a mill. But that which is more inpure must be elutriated, purified, and boiled. That which is quite impure, and full of small stones, is sold under the name of rock salt, and is applied to ordinary uses. It may likewise be used for strengthening weak and poor brine-springs.

The waters of the ocean every where abound with common salt, though in different proportions. The water of the Baltic sea is said to contain one sixtyfourth of its weight of salt; that of the sea between England and Flanders contains one thirty-second part; that on the coast of Spain one-sixteenth part; and between the tropies it is said, erroneously, to contain from an eleventh to an eighth part

The water of the sea contains, besides the common salt, a considerable proportion of muriate of magnesia, and some sulphate of lime, of soda, and potassa. The former is the chief ingredient of the remaining liquid which is left after the extraction of the common salt, and is called the mother water. Sea water, if taken up near the surface, contains also the putrid remains of animal substances, which render it hauseous, and in a long-continued calm cause the sea to stink.

The whole art of extracting salt from waters which contain it, consists in evaporating the water in the cheapest and most convenient manner. In England, a brine composed of sea-water, with the addition of rock salt, is evaporated in large shallow iron boilers; and the crystals of salt are taken out in baskets. In Russia, and probably in other northern countries, the sea-water is exposed to freeze; and the ice, which is aimost entirely fresh, being taken out, the remaining brine is much stronger, and is evaporated by boiling. In the southern parts of Europe, the salt-makers take advan tage of spontaneous evaporation. A flat piece of ground near the sea is chosen, and banked round, to prevent its being overflowed at high water. The space

within the banks is divided by low walls into several compartments, which successively communicate with each other. At flood tide, the first of these is filled with sea-water, which, by remaining a certain time, deposites its impurities, and loses part of its aqueous fluid. The residue is then suffered to run into the next compartment, and the former is again filled as before Compartment, and the former is again filled as before. From the second compartment, after a due time, the water is transferred into a third, which is fined with clay, well rammed and levelled. At this period, the evaporation is usually brought to that degree, that a crust of sail is formed on the surface of the water, which the workmen break, and it immediately falls to the bottom. They continue the surface of the water, which the workmen break, and it immediately falls to the bottom. They continue to do this until the quantity is sufficient to be taked out, and dried in heaps. This is called bay salt.

Besides its use in seasoning our food, and preserving meat both for domestic consumption and during the longest voyages, and in furnishing us with the muriation acid and soda, salt forms a glaze for coarse pottery, by being thrown into the oven where it is baked; it improves the whiteness and cleanness of glass; it gives greater hardness to soap; in melting metals it preserves their surface from calcination, by defending them from the air, and is employed with advantage in some assays; it is used as a mordant, and for improving certain colours, and enters more or less into many other pro-

cesses of the arts.

The muriate of strontian has not long been known. Dr. Hope first distinguished it from muriate of barytes. a cool pungent taste, without the austerity of the muriate of barytes, or the bitterness of the muriate of lime: is soluble in 0.750 of water at 600, and to almost any amount in boiling water; is likewise soluble in alkohol, and gives a blood-red colour to its flame.

It has never been found in nature, but may be prepared in the same way as the muriate of barytes

The muriate of lime has been known by the names of marine selenite, calcarcous marine salt, muria, and of marine setence, calcarcous marine salt, maria, and fixed sal ammonion. It crystallizes in hexalicital prisms terminated by acute pyramids. Its taste is acrid, bitter, and very disagreeable. It is soluble in half its weight of cold water, and by heat in its own water of crystallization. It is one of the most deliquescent salts known; and, when deliquesced, has been called all of time. It exists in nature, but neither very abundantly nor very pure. It is formed in chemical laboratories, in the decomposition of muriate of ammonia; and Homberg found, that if it were urged by a violent heat till it condensed, on cooling into a vitreous mass, it emitted a phosphoric light upon being struck by any hard body, in which state it was called

Homberg's phosphorus.

Hitherto it has been little used except for frigorific mixtures; and with snow it produces a very great degree of cold. Fourcroy, indeed, says he has found it of great utility in obstructions of the lymphatics, and in scrofulous affections.

The muriate of ammonia has long been known by the name of sal ammonia, or ammoniae. It is found native in the neighbourhood of volcanoes, where it is sublimed sometimes nearly pure, and in different parts of Asia and Africa. A great deal is carried annually to Russia and Siberia from Bucharian Tartary; and we formerly imported large quantities from Egypt, but now manufacture it at home. See Sal Ammoniac.

The salt is usually in the form of cakes, with a

convex surface on one side, and concave on the other, from being sublimed into large globular vessels; but by solution it may be obtained in regular quadrangular crystals. It is remarkable for possessing a certain degree of ductility, so that it is not easily pulverable. Its is soluble in 3½ parts of water at 60°, and in little more than its own weight of boiling water. Tis taste is cool, acrid, and bitterish. Its specific gravity is 1.42. It attracts moisture from the air but very slightly

Muriate of ammonia has been more employed in medicine than it is at present. It is sometimes useful as an auxiliary to the bark in intermittents; in gargles it is beneficial, and externally it is a good discutient. In dying, it improves or heightens different colours. In tinning and soldering, it is employed to preserve the surface of the metals from oxidation. In assaying, it discovers iron, and separates it from some of its combinations.

The muriate of magnesia is extremely deliquescent,

soluble in an equal weight of water, and difficultly crystallizable. It dissolves also in five parts of alkohol-It is decomposable by heat, which expels its acid. Its

taste is intensely bitter.

With ammonia this muriate forms a triple salt, crystallizable in little polyhedrons, which separate quickly from the water, but are not very regularly formed. troin the water of that of both the preceding salts. The best mode of preparing it is by mixing a solution of 27 parts of muriate of ammonia with a solution of 73 of muriate of magnesia; but it may be formed by a semi-decomposition of either of these muriates by the base of the other. It is decomposable by heat, and requires six or seven times its weight of water to dissolve it.

Of the murate of plucine we know but little. It appears to crystallize in very small crystals; to be decomposable by heat; and, dissolved in alkohol and di-luted with water, to form a pleasant saccharine liquor-

Muriate of alumina is searcely crystallizable, as on evaporation it assumes the state of a thick jelly. It has an acid, styptic, acrid taste. It is extremely soluble in water, and deliquescent. Fire decomposes it. It may be prepared by directly combining the murlatic acid with alumina; but the acid always remains in

The muriate of zircon crystallizes in small needles which are very soluble, attract moisture, and lose their transparency in the air. It has an austere taste, with somewhat of acrimony. It is decomposable by heat. The gallic acid precipitates from its solution, if it be free from iron, a white powder. Carbonate of ammonia, if added in excess, redissolves the precipitate it

nia, it added in excess, tousened had before thrown down,

Muriate of yttria does not crystallize when evaporated, but forms a jelly. It dries with difficulty, and

Fourcroy observes, that when silicious stones, previously fused with potassa, are treated with muriatic viously tused with potassa, are treaten with mutant acid, a limpid solution is formed, which may be reduced to a transparent jelly by slow evaporation. But a boiling fixed decomposes the silicitous muriate, and the earth is deposited. The solution is always acid."

This acid possesses active tonic powers. In typhus, or nervous fevers, although employed on the continent

with success, it has not proved so beneficial in this country; and when freely used it is apt to determine to the bowels. Externally, the muriatic acid has been applied in the form of a bath, to the feet, in gout. In a late publication, there are accounts of its successful

application as a lithontriptic.

MURIATIC ACID, OXYGENIZED. This supposed acid was lately described by Thenard. He saturated common muriatic acid of moderate strength with deutoxide of barium, reduced it into a soft paste by trituration with water. He then precipitated the barytes from the liquid, by adding the requisite quantity of sulphuric the liquid, by adding the requisite quantity of sulphuric acid. He next took his oxygenized muriatic acid, and treated it with deutoxide of barium and sulphuric acid, to oxygenate it anew. In this way he charged it with oxygen as often as 15 times. He thus obtained a liquid acid which contained 32 times its volume of oxygen at the temperature of 68° Fahr, and at the ordinary atmospherical pressure, and only 4½ times its volume of muratic acid, which gives about 28 equivalent primes of oxygen to one of muriatic acid.

This oxygenized acid leaves no residum when

This oxygenized acid leaves no residuum when evaporated. It is a very acid, colourless liquid, almost destitute of smell, and powerfully reddens turnsole. When boiled for some time, its oxygen is expelled.

We ought, however, to regard this apparent oxygenation of the acid merely as the conversion of a portion its combined water into deutoxide of hydrogen.
MURICATUS. Sharp-pointed: applied to seeds,

as those of the Ranunculus parviforus and Sida

MURRAY, JOHN ANDREW, was born at Stockholm, of a Scotch family, in 1740. At 16 he was sent to Upsal, and had the benefit of the instructions of Linnæus, for whom he ever after entertained the highest esteem. In 1759 he took a journey through the southern provinces of Sweden, and thence to Copensouthern provinces of Sweden, and thence to Copenhagen; and in the following year he went to Gottingen, where his brother was professor of philosopily. In 1763 he took his degree of doctor in medicine, and by a special license from the Hanoverian government, gave lectures in botany; and in the following spring he was appointed extraordinary professor of medicine

In that university. From this period his reputation rapidly extended; he was elected a member in the course of a few years of most of the learned societies in Europe. In 1769 he succeeded to the actual professorship of medicine, and was made doctor of the botanic garden. He was still farther honoured by receiving the title of the Ordor of Vasa from the King of Sweden in 1780; and two years afterward by being raised to the rank of privy counsellor by his Britannic Majesty. In 1791 he was attacked with a spurious peripneumony, which shortly terminated his existence. He was a man of sound judgment, great activity, and extensive information. He composed a great number of tracts on various subjects in botany, natural history. of tracts on various subjects in botany, natural history, medicine, pharmacy, and medical literature. His principal work, which occupied a large portion of his time and attention, was on the Materia Medica, under the title of "Apparatus Medicaminum," in six octavo indeed, he was employed in correcting the volumes: last for the press the day before his death. In the Transactions of the Royal Society of Gottingen, there are many valuable papers by him, chiefly botanical; and his descriptions are deemed models of elegance

and accuracy.

MU'SA. (This word is corrupted, or rather refined, from Mauz, the Egyptian appellation of this valuable plant; and is made classical in the works of Linnaus, plant; and is made classical in the works of Linnens, by an allusion to Musa, a muse; or, with much greater propriety, to Intonus Musa, the physician of Augustus, who, having written on some botanical subjects, may justly be commemorated in the above name.) The name of a genus of plants. Class, Polygamia; Order, Monacia. The plantsin and badana-tree.

MUSA PARADISIACA. Musa; Palma humilis; Ficus Indica; Bala; Platanus. The plantsin-tree. It grows spontaneously in many parts of India, but has been immemorially cultivated by the Indians in every part of the continent of South America. It is an

been immemorially cultivated by the Indians in every part of the continent of South America. It is an herbaceous tree, growing to the height of fifteen or twenty feet. The fruit are nearly of the size and shape of ordinary cucumbers, and when ripe, of a pale yellow colour, of a mealy substance, a little clammy, with a sweetish taste, and will dissolve in the mouth without chewing. The whole spike of fruit often weighs forty or fifty pounds. When they are brought to table by way of dessert, they are either raw, fried, or roasted; but, if intended for bread, they are cut before they are ripe, and are then either roasted or boiled. The trees being tall and slender, the Indians cut them down to get at the fruit; and in doing this they suffer no loss, for the stems are only one year's growth, and would die if not cut; but the roots continue, and new stems soon spring up, which in a year growth, and would die if not cut; but the roots continue, and new stems soon spring up, which in a year produce ripe fruit also. From the ripe plantains they make a liquor called mistaw. When they make this, they ronst the fruit in their busks, and, after totally beating them to a mash, they pour water upon them, and, as the liquor is wanted, it is drawn off. But the nature of this fruit is such, that they will not keep long without running into a state of putrefaction; and therefore, in order to reap the advantage of them at all times, they make cakes of the pulp, and dry them over a slow fire, and, as they stand in need of mistaw, they mash the cakes in water, and they answer all the purposes of fresh fruit. These cakes are exceedingly convenient to make this liquor in their journeys, and they never fail to carry them for that purpose. The leaves of the tree being large and spacious, serve the Indians for tablecloths and uapkins. the Indians for tablecloths and napkins.

MUSA SAPIENTUM. The systematic name of the Musa Sapientum. The systematic name of the banana-tree.—Benana, Bananeira; Ficondes; Ficus indica; Musa fructu cucumerino brevieri; Senoria; Paceira. This and the plantain-tree are among the most important productions of the earth. The banana-tree is cultivated, on a very extensive scale, in Jamaica; without the fruit of which, Dr. Wright says, the island would sarcely be habitable, as no species of provision would supply their place. Even flour, or bread itself, would be less agreeable, and less able to support the laborious negro, so as to enable him to do his business, or to keep in health. Plantains also fatten horses, cattle, swine, dogs, fowls, and other domestic animals.

napkins and tablecloths, and are food for hogs. The second sort, musa sapientum, or banana-tree, differs second sort, musa sapientum, or banana-tree, differs from the paradisinca, in having its stalks marked with dark purple stripes and spots. The fruit is shorter, straighter, and rounder; the pulp is softer, and of a more luscious taste. It is never eaten green; but when ripe, it is very agreeable, either eaten raw or fried in slices, as fritters, and is relished by all ranks of people in the West Indies. Both the above plants were carried to the West Indies from the Canary Islands; whither, it is believed, they had been brought from Guinea, where they grow naturally.

Musan: Sal ammoniac.

Sal ammoniac.

Muscapt. Sal ammoniac.
Muscapt PULA. (From mus, a mouse, and capio, to take, being originally applied to a mousetrap; afterward to a plant; so called from its viscidity, by which flies are caught as with birdiline.) A species of lychnis. Muscale.
Muscales. The parts that are usually included under this name consist of distinct portions of flesh, susceptible of contraction and relaxation; the motions of which, in a natural and healthy state, are subject to the will, and for this reason they are called an are muscles. Besides these, there are other parts subject to the will, and for this reason they are called voluntary muscles. Besides these, there are other parts of the body that owe their power of contraction to their muscular fibres: thus the heart is a muscular texture, forming what is called a hollow muscle; and the urinary bladder, stomach, intestines, &c. are enabled to act upon their contents merely because they are provided with muscular fibres; these are called incoluntary muscles, because their motions are not dependent on the will. The muscles of respiration being in some measure influenced by the will, are said to have a mized motion. The names by which the voluntary muscles are distinguished, are founded on their size, figure, situation, use, or the arrangement of their fibres, or their origin and insertion; but, besides these particular distinctions, there are certain general ones that or their origin and insertion; but, besides these parti-cular distinctions, there are certain general ones that require to be noticed. Thus, if the fibres of a muscle are placed parallel to each other, in a straight direc-tion, they form what anatomists term a rectilinear muscle; if the fibres cross and intersect each other, they constitute a compound muscle; when the fibres are disposed in the manner of rays, a radiated muscle; when they are placed obliquely with respect to the tendon, like the plume of a pen, a penniform muscle. Muscles that act in opnosition to each other are called Muscles that act in opposition to each other are called antagonists; thus every extensor has a flexor for his antagonist, and nice verse. Muscles that concur in the same action are termed congeners. The muscle being attached to the bones, the latter may be considered as levers, that are moved in different directions by the contraction of those organs. That end of the muscle which adheres to the most fixed part is usually called the origin; and that which adheres to the more moveable part, the insertion of the muscle. In almost every muscle, two kinds of fibres are distinguished; the one soft, of a rod colour, sensible, and irritable, called fleshy fibres, see Muscular Fibre; the other of a firmer texture, of a white glistening colour, insensible, without irritability or the power of contracting, and named tendinous fibres. They are occasionally intermixed, but the fleshy fibres generally prevail in the belly, or middle part of the muscle, and the tendinous ones in the extremities. If these tendinous fibres are formed into a round slender cord, they form what is called the tendon of the muscle; on the other hand, they are spread into a broad flat surface, it is termed an which adheres to the most fixed part is usually called they are spread into a broad flat surface, it is termed an aponeurosis.

Each muscle is surrounded by a very thin and deli-

cate covering of cellular membrane, which encloses it as it were like a sheath, and, dipping down into its subit were like a sheath, and, dipping down into its substance, surrounds the most minute fibres we are able to trace, connecting them to each other, lubricating them by means of the fat which its cells contain more or less quantity in different subjects, and serving as a support to the blood-vessels, lymphatics, and nerves which are so plentifully distributed through the muscles. This cellular membrane, which in no respect differs from what is found investing and connecting the other parts of the body, has been sometimes mistaken for a membrane, peculiar to the muscles; and hence we often find writers giving it the name of membrana propria musculosa. The muscles ove the or to keep in health. Plantains also fatten horses, cattle, swine, dogs, fowls, and other domestic animals. The leaves, being smooth and soft, are employed as dressings after bisters. The water from the soft trunk is ascringent, and employed by some to check diarrhaes. Every other part of the tree is useful in different parts of rural economy. The leaves are used as

materated in water, are (like all other parts of the body divested of their blood) found to be of a white colour. These arteries usually enter the muscles by several considerable branches, and ramify so minutely through their substance, that we are unable, even with the best microscopes, to trace their ultimate branches. Tuysch fancied that the muscular fibre was hollow, and a production of a capillary artery; but this was merely conjectural. The veins, for the most part, accompany the arteries, but are found to be larger and more numerous. The lymphatics, likewise, are unmerous, as might be expected from the great proportion of reticular substance, which is every where found investing the muscular fibres. The nerves are disributed in such abundance to every muscle, that the muscles of the thumb alone are supplied with a greater proportion of nervous influence than the largest vismuscles of the running arone are supplied with a greater proportion of nervous influence than the largest viscera, as the liver for instance. They enter the generality of muscles by several trunks, the branches of which, like those of the blood-vessels, are so numrely dispersed through the cellular substance, that their unspectation of the manufacture and minuteness soon clude the eye, and the knife of the anatomist. This has given rise to a conjecture, as groundless as all the other conjectures on this subject, that the muscular fibre is ultimately ner-VOUS

A table of the Muscles .- The generality of anatomical writers have arranged muscles according to their several uses; but this method is evidently defective, as the same muscle may very often have different and opposite uses. The method here adopted is that more opposite uses. The method here adopted is that more usually followed at present; they are enumerated in the order in which they are situated, beginning with those that are placed nearest the integuments, and proceeding from these to the muscles that are more deeply scated.

[The reader will observe, that all the muscles are in pairs, except those marked thus.\*]

Muscles of the integuments of the cranium:

1. Occipito frontalis.\*

2. Corrugator supercilii.

Muscles of the eyelids:

3. Orbicularis palpebrarum.
4. Levator pulpebra superioris.
Muscles of the eyeball:

5. Rectus superior.
6. Rectus inferior.

7. Rectus internus 8. Rectus externus

9. Obliquus superior.

10. Obliquus inferior.
Muscles of the nose and mouth:

Levator palpebræ superioris alæque nasi.
 Levator labii superioris proprius.

13. Levator anguli oris.

14. Zygomaticus major. 15. Zygomaticus minor. 16. Buccinator.

17. Depressor anguli oris.
18. Depressor labii inferioris.
19. Orbicularis oris.\*

Depressor labii superioris alæque nasi.

21. Constrictor nasi.

Levator menti vel labii inferioris.

Muscles of the external ear:

23. Superior auris.

Anterior nuris

25. Posterior auris.

26. Helicis major.

25. Hences minor.
27. Helicis minor.
28. Tragicus.
29. Antitragicus.
30. Transversus auris.
Muscles of the internal ear:

31. Laxator tympani.

32. Membrana tympani. 33. Tensor tympani.

34. Stapedius.

Muscles of the lower jaw:

35. Temporalis.

36. Masseter. 37. Pterygoideus externus.

Pterygoideus internus Muscles about the anterior part of the neck :

39. Platysma myoides.

40. Sterno-cleidomastoideus.

Muscles between the lower jaw and os hyoides:

41. Digastricus.

Mylo hyordeus.

Gento hpordeus.

44. Genio glassus. 45. Hyo-glassus. 46. Lingualis.

Muscles situated between the os hyoides and trunk:

47. Sterno-hyoideus.

48. Crico-hyoideus. 49. Sterno-thyroideus.

Thyro-hyordeus

51. Crico-thyroideus.

Muscles between the lower jaw and os hyoides laterally:

52. Stylo-glossus. 53. Stylo hyoideus

54. Stulo-pharyngeus.

Levator palati mollis.

Muscles about the entry of the fauces:

Constrictor isthmi faucium.

58. Palatopharyngeus.
59. Azygos uvulæ.\*
Muscles situated on the posterior part of the pharynx;

60. Constrictor pharyngis superior.
61. Constrictor pharyngis medius.
62. Constrictor pharyngis inferior.
Muscles situated about the glottis:

63. Crico-arytanoideus posticus. 64. Crico-arytanoideus lateralis.

Thyro-arytenoideus. 66. Arytanoideus obliquus.\*

Arytanoideus transversus.\*

Thyro-epiglottideus. 68

69. Aryteno-epiglottideus.
Muscles situated about the anterior part of the abdomen:

70. Obliques descendens externus.
71. Obliques ascendens

Obliquus ascendens internus.

Transversalis abdominis.

Rectus abdominis. 4. Pyramidalis.
Muscles about the male organs of generation:

75. Dartos.\*

76. Cremaster. 77. Erector pe

Erector penis.

79. Transversus perinei.

Muscles of the anus.

80. Sphincter ani.\*

81. Levator ani.\*
Muscles of the female organs of generation:

82. Erector clitoridis.

83. Sphincter vagina Muscles situated within the pelvis:

84. Obturator internus.

85. Cocrygeus.

Muscles situated within the cavity of the abdomen:

86. Diaphragma.\*

87. Quadratus lumborum. 88. Psoas parvus. 89. Psoas magnus.

90. Iliacus internus Muscles situated on the anterior part of the thorax:

91. Pectoralis major.

93. Pectoralis minor.
94. Serratus major anticus.
Muscles situated between the ribs, and within the thorax:

95. Intercostales externi.

96. Intercostales interni. 97. Triangularis.

Muscles situated on the anterior part of the neck, close to the vertebræ:

Longus colli.

99. Rectus internus capitis major.

100. Rectus capitis internus minor.
101. Rectus capitis lateralis.
Muscles situated on the posterior part of the trunk;

102. Trapezius. 103. Latissimus dorsi.

104. Serratus posticus inferior. 105. Rhomboideus.

106. Splenius.

Serratus superior posticus.

109. Levatores costarum.

MUS 110. Sacro lumbalis. 111. Longissmus dorsi. 112. Complexus. 113. Trachelo mastoideus. 114. Levator scapulæ. 115. Semi-spinalis dorsi. 116. Multifidus spinæ.
117. Semi-spinalis colli.
118. Transversalis colli 119. Rectus capitis posticus miner. 120. Obliquus capitis superior. 121. Obliquus capitis inferior. Scalenus. 122. Interspinales.
Intertransversales. 124. Muscles of the superior extremities: Supra-spinatus. 126. Infra spinatus. Teres minor. 12d. Teres major. 129. Deltoides. 130. Coracobrachialis. 131. Subscapularis.

Muscles situated on the os humeri: Biceps flexor cubiti. Brachialis internus 133. 134. Biceps extensor cubiti. 134. Bicche extensor cuent.

35. Anconeus.

Muscles situated on the forearm:

136. Supinator radii longus.

137. Extensor carpi radialis longior.

138. Extensor carpi radialis brevior.

139. Extensor digiturum communis. 140. Extensor minimi digiti. 141. Extensor carpi ulnaris. 142. Flexor carpi ulnaris.
143. Palmaris longus.
144. Flexor carpi radialis.
145. Pronator radii teres.
146. Supinator radii brevis. 147. Extensor ossis metacarpi pollicis manus. 148. Extensor primi internodii.
 149. Extensor secundi internodii. 150. Indicator. 151. Flexor digitorum sublimis.
152. Flexor digitorum profundus.
153. Flexor Ingrus pollicis.
154. Pronator radii quadratus.
Muscles situated chiefly on the hand: Lumbricales. 155. Lumpricates.
156. Flexor brevis pollicis manus.
157. Opponens pollicis.
158. Abductor pollicis manus.
159. Adductor pollicis manus.
160. Abductor indicis manus. 161. Palmaris brevis. Abductor minimi digiti manus. Abductor minimi digiti. 164. Flexor parvus minimi digiti. 165. Interossei interni. 166. Interossei externi. Muscles of the inferior extremities: 167 Pectinalis. Triceps adductor femoris. 768. Obdurator externus. 169. 170. Gluteus maximus. Gluteus minimus. 172 Gluteus medius. 173. Pyriformis. Gemini. Quadratus femoris.

Muscles situated on the thigh: Tensor vaginæ femoris. Sartorius Rectus femoris. 179. Vastus externus. Vastus internus. 180. 181. Cruralis. 182. Semi-tendinosus. 183. Semi-membranosus. 184. Biceps flexor cruris. 185. Popliteus. Muscles situated on the leg:

Gastrocnemius externus. 187. Gastrocnemius internus. 188. Plantaris. 189. Tibialis anticus.

190. Tibialis posticus. 191. 191. Peroneus longus. 192. Peroneus brevis. 193. Extensor longus digitorum pedis. 194. Extensor proprius pollicis pedis. 195. Flexor longus digitorum pedis. ing; and is perceived in the muscles of respiration, the intercostals, the abdominal muscles, and the diaphragm. intercostals, the abdominal muscles, and the draphragm. When a muscle acts, it becomes shorter and thicker; both its origin and insertion are drawn towards its middle. The sphincter muscles are always in action; and so likewise are antagonist muscles, even when they seem at rest. When two antagonist muscles move with equal force, the part which they are designed to move remains at rest; but if one of the antagonist muscles remains at rest, while the other acts, the next is moved towards the centre of motion.

195. Flexor longus digitorum pedis.
196. Flexor longus pulters pedis.
197. Extensor brevis digitorum pedis.
198. Flexor brevis digitorum pedis.
199. Flexor brevis digitorum pedis.
199. Lumbricales pedis.
190. Flexor brevis pulteris pedis.
201. Abductor pollecis pedis.
202. Adductor mointa digiti pedis.
203. Abductor minimi digiti pedis.
204. Flexor brevis minimi digiti pedis.
205. Transversales mets. 205. Transversales pedes. 206. Interossei pedis externi 207. Interessei pedis interni. MUSCULAR. (Muscularis; from musculus, a mus-MUSCULAR. (Muscularrs; from musculus; a muscle.) Belonging to a muscle.

MUSCULAR HIBE. The fibres that compose the body of a muscle are disposed in fasciculi, or bundles, which are easily distinguishable by the naked eye; but these fasciculi are divisible into still smaller ones; and these again are probably subdivisible ad injuntum.

The most minute fibre we are able to trace seems to be somewhat plaited; these plaits disappearing when the fibre is put upon the stretch, seem evidently to be the effect of contraction, and have probably induced some nore is put upon the street, seem evidently to be the effect of contraction, and have probably induced some writers to assert, that the muscular fibre is twisted or spiral. Various have been the opinions concerning the structure of these fibres, their form, size, position, and the nature of the atoms which compose them. A fibre is essentially composed of fibrine and ozmazome, receives a great deal of blood, and, at last, one nervous filament. The other suppositions are all of them founded only on conjecture, and therefore we shall mention only the principal ones, and this with a view rather to gratify the curiosity of the reader, than to afford him information. Borelli supposes them to be so many hollow cylinders, filled with a spongy medullary substance, which he compares to the pith of elder, spongiosa ad instar sambuci. These cylinders, he contends, are intersected by circular fibres, which form a chain of very minute bladders. This hypothesis has since been adopted by a great number of writers, with certain variations. Thus, for instance, Bellini supposes the vesicles to be of a rhomboidal stagic; which ergs Bernoulli contends that they are oval. Cowper went so far as to persuade himself that he had Cowper went so far as to persuade himself that he had filled bese cells with mercury; a mistake, no doubt, niled Dese cells with mercury; a mistake, no doubt, which arose from its insimuating itself into some of the lymphatics. It is observable, however, that Leeuwhenoeck says nothing of any such vesicles. Here, as well as in many other of her works, Nature seems to have drawn a boundary to our inquiries, beyond which no human penetration will probably ever extend. By chemical analysis muscle is found to consist chiefly of fibrine, with albumen, gelatine, extractive, phosphate fibrine, with albumen, gelatine, extractive, pnospnate of soda, phosphate of ammonia, phosphate and carbonate of lime, and sulphate of potassa.

Muscular morrow. Muscular motions are of three kinds: namely, voluntary, involuntary, and mixed. The voluntary motions of muscles are such as proceed from an immediate exertion of the active powers of the will: thus the mind directs the arm to be raised or depressed, the knee to be bent, the tongue to move, &c.
The involuntary motions of muscles are those which
are performed by organs, seemingly of their own accord, without any attention of the mind, or consciousness of its active power: as the contraction and dilatation of the heart, arteries, veins, absorbents, stomach, intestines, &c. The mixed motions are those which are in part under the control of the will, but which ordinarily act without our being conscious of their act-

the part is moved towards the centre of motion.

When a muscle is divided, it contracts. If a muscle of the will, these will produce much more powerful estretched to a certain extent, it contracts, and engineers than muscles whose fibres are fine, colourless, be stretched to a certain extent, it contracts, and endeavours to acquire its former dimensions, as soon as the stretching cause is removed: this takes place in the dead body; in muscles cut out of the body, and also in parts not muscular, and is called by the immortal Haller vis mortua, and by some vis elastica. It is greater in living than in dead bodies, and is called the of the muscles.

When a muscle is wounded, or otherwise irritated, it contracts independent of the will: this power is called *irritability*, and by Haller vis insita; it is a called irritability, and by maker the distra; it is a property peculiar to, and inherent in, the muscles. The parts of our body which possess this property are called irritable, as the heart, arteries, muscles, &c. to distinguish them from those parts which have no mus-cular fibres. With regard to the degree of this procular fibres. With regard to the degree of this property, peculiar to various parts, the heart is the most iritable, then the stomach and intestines; the diaphragm, the arteries, veins, absorbents, and at length the various muscles follow; but the degree of irritability depends upon the age, sex, temperament, mode of living, climate, state of health, idusyncrasy, and likewise upon the nature of the stimulus.

When a muscle is stimulated, either through the medium of the will or any foreign body, it contracts, and its contraction is greater or less, in proportion as the stimulus applied is greater or less. The contrac-tion of muscles is different according to the purpose to be served by their contraction: thus, the heart contracts with a jerk; the urinary bladder, slowly and uniformly; puncture a muscle, and its fibres vibrate; and the abdominal muscles act slowly in expelling the contents of the rectum. Relaxation generally succeeds the contraction of muscles, and alternates with it.
"Muscular contraction, such as takes place in the

ordinary state of life, supposes the free exercise of the brain, of the nerves which enter the muscles, and of the muscles themselves. Every one of these organs ought to receive arterial blood, and the venous blood ought not to remain too long in its tissue. If one of these conditions is wanting, the muscular contraction

these conditions is wanting, the muscular contraction is weakened, injured, or rendered impossible. Phenomena of Muscular Contraction.—When a muscle contracts, its fibres shorten, become hard, with more or less rapidity, without any preparatory oscillation or hesitation; they acquire all at once such an elasticity, that they are capable of vibrating, or producing sounds. The colour of the muscle does not appear to change in the instant of contraction; but there is a certain tendency to become displaced, which the aponeuroses oppose.

There have been discussions about the size of a muscle, in its contracted and relaxed state: the question does not seem to be resolved, in which of these states it is most voluminous; it is happily of small

consequence.

The whole of the sensible phenomena of muscular contraction passes in the muscles; but, to a certainty, no action can take place without the immediate action of the brain and the nerves.

of the brain and the nerves.

If the brain of a man, or of an animal, is compressed, the faculty of contracting the muscles ceases; the nerves of a muscle being cut, it loses all power.

What change happens in the muscular tissue during the state of contraction? This is totally unknown. In this respect there is no difference between muscular transitional the visit entires of which. contraction and the vital actions, of which no explana-tion can be given. There is no want of attempts to explain the action of the muscles, as well as that of the nerves and the brain, in muscular contraction; but none of the proposed hypotheses can be received.

Instead of following such speculations, which can be easily invented or refuted, and which ought to be banished from physiology, it is necessary to study in muscular contraction, 1st, the intensity of the contraction; 2dly, its duration; 3dly, its rapidity; 4thly, its extent.

its extent.

The intensity of muscular contraction, that is, the degree of power with which the fibres draw themselves together, is regulated by the action of the brain; it is generally regulated by the will according to cer-tain limits, which are different in different individuals. A particular organization of the muscles is favourable to the intensity of their contraction: this organization is a considerable volume of fibres, strong, of a deep red, and striated transversely. With an equal power

and smooth. However, should a very powerful cere-bral influence, or a great exertion of the will, be joined to such fibres, the contraction will acquire great in-tensity; so that the cerebral influence, and the disposition of the muscular tissue, are the two elements of the intensity of muscular contraction.

very great cerebral energy is rarely found united in the same individual, with that disposition of the muscular fibres which is necessary to produce intense contractions; these elements are almost always in an inverse ratio. When they are united, they produce astonishing effects. Perhaps this union existed in the athletæ of antiquity; in our times it is observed in

certain mountebanks.

The muscular power may be carried to a wonderful degree by the action of the brain alone: we know the strength of an enraged person, of maniacs, and of per-

sons in convulsions.

The will governs the duration of the contraction; it cannot be carried beyond a certain time, however it may vary in different individuals. A feeling of weariness takes place, not very great at first, but which goes on increasing until the muscle refuses contraction. The quick developement of this painful feeling depends on the intensity of the contraction and the akness of the individual.

To prevent this inconvenience, the motions of the body are so calculated that the muscles act in succession, the duration of each being but short: our not being able to rest long in the same position is thus explained, as an attitude which causes the contraction of a small number of muscles cannot be preserved but

for a very short time.

The feeling of fatigue occasioned by muscular contraction soon goes off, and in a short time the muscles recover the power of contracting.

The quickness of the contractions are, to a certain degree, subject to cerebral influence: we have a proof of this in our ordinary motions; but beyond this degree, it depends evidently on habit. In respect of the rapidity of motion, there is an immense difference between that of a man who touches a plano for the first time, and that which the same man produces after several years' practice. There is, besides, a very great difference in persons, with regard to the quickness of contractions, either in ordinary motions or in those which depend on habit.

As to the extent of the contractions, it is directed by the will; but it must necessarily depend on the length of the fibres, long fibres having a greater extent of con-

traction than those that are short.

After what has been said, we see that the will has generally a great influence on the contraction of muscles; it is not, however, indispensable: in many circumstances motions take place, not only without the participation of the will, but even contrary to it; we find very striking examples of this in the effects of habit, of the passions, and of diseases."

mant, of the passions, and of decases.

Muscular power. See Irritability.

MU'SCULUS. (A diminutive of mus, a mouse; from its resemblance to a flayed mouse.) See Muscle. Musculus cutakeus. See Platysma myoides.

Musculus Fascie Late. See Tensor vagina

femoris.

femoris.

MUSCULUS PATIENTIE. See Levator scapula.

MUSCULUS STAPEDIUS. See Stapedius.

MUSCULUS SUPERCILIT. See Corrugator supercilit.

MUSCULUS TUBER NOVE. See Corcumplerus.

MUSCUS. (Muscus, i.m.; the moss of a tree.) A
moss. A cryptogamous plant, which has its fructification contained in a capsule.

MOSSES are distinguished according to the splitting.

Mosses are distinguished, according to the splitting of the capsule, into,

1. Musci frondosi, the capsule of which is operculate, having a lid and the fronds very small.

2. Musci hepatici, liverworts; the capsules of which split into valves, and the herbage is frondose and stemless.

The parts of the capsule of frondose mosses, which are distinguished by particular names, are,

1. The surculus, which bears the leaves,

2. The seta, or fruitstalk, which goes from the sur-

culus, and supports the theca.

3. The theca, or capsule; the dry fructification adhering to the apex of the frondose stem.

4. The operculum, or lid, found in the fringe.

5. The peristoma, of ma, jound in the lings.

5. The peristoma, peristomium, or fringe, which in most mosses borders the opening of the theca.

6. The calpptra, the veit, placed on the capsule like an extinguisher on a caudle; as in Bryum caspi-

7. The perichatium, a slender or squamous membrane at the base of the fruitstalk.

8. The fimbria, or fringe, a dentate ring of the oper-

culum, by the elastic force of which the operculum is displaced.

aspiacea.

9. The spiphragma, a slender membrane which shuts the fringe; as in Polytricum.

10. The sphrongidium, or columnula; the last column or filament which passes the middle of the capsule, and to which the seeds are attached.

Mosses are found in the hottest and coldest climates. They are extremely tenacious of life, and, after being long dried, easily recover their health and vigour by moisture. Their beautiful structure cannot be too much admired. Their species are numerous, and difficult to determine

MUSCUS. (From μοσχος, tender; so called from its deficate and tender consistence.) Moss.

MUSCUS ARBOREUS. See Lichen plicatus.

MUSCUS CANINUS. See Lichen caninus.

MUSCUS CANINUS. See Lichen canthus.

MUSCUS CLAVATUS. See Lycopodium.

MUSCUS CRANII HUMANI. See Lichen jaxatilis.

MUSCUS CUMATILIS. See Lichen apthosus.

MUSCUS ERECTUS. See Lycopodium selago.

MUSCUS ERECTUS. Iceland moss. See Lich See Lichen islandicus.

Muscus Maritimus. See Corallina.

MUSCUS PULMONARIUS QUERCINUS. See Lichen

Muscus Pyxidatus. Cup-moss. See Lichen pyxi-

MUSCUS SQUAMOSUS TERRESTRIS. See Lycopo-

MUSGRAVE, WILLIAM, was born in Somerset-shire, 1657. He went to Oxford with the intention of studying the law; but he afterward adopted the medical profession, and became a Fellow of the Royal Society, of which body he was appointed secretary, in 1684. In this capacity he edited the Philosophical Transactions for some time; be likewise communicated several papers on anatomical and physiological subjects. In 1689 he took his doctor's degree, and became a Fellow of the College of Physicians. Not long after this he settled at Exeter, where he practised his profession with considerable success for nearly 30 years, and died in 1721. Beyond the circle of his practice, he made himself known principally by his two treatises on gout, which are valuable works, and were several times re-printed. He was also a distinguished antiquary, and author of several learned tracts on the subjects of his researches in this way.

MUSHROOM. See Agaricus campestris. Mu'sıa Pattræ. A name for moxa. MUSK. See Moschus.

MUSE, ARTIFICIAL. Let three fluid drachms and a half of nitric acid be gradually dropped on one fluid drachm of rectified oil of amber, and well mixed. Let it stand twenty-four hours, then wash it well, first in cold, and then in hot water. One drachm of this resinous substance, dissolved in four ounces of rectified spirit, forms a good tineture, of which the mean dose is twenty minims. In preparing the above, great attention should be given to the washing the resin, otherwise it is offensive to the stomach.

Musk-cranesbill. See Geranium moschatum.

Musk-renesort. See Creamin moschulum.
Musk-melon. See Cucumis melo.
Musk-seed. See Hibiscus abelmoschus.
Musagurtro. A variety of our common gnat, the
Culex pipens of Linnæus, which, in the West Indies, produce small tumours on whatever part they settle and bite, attended with so high a degree of itching and and one, attended with so high a degree of itching and inflammation, that the person cannot refrain from scratching; by a frequent repetition of which he not uncommonly occasions them to ulcerate, particularly if he is of a robust and full habit.

MUSSITE. Diopside.

MUSSENDA. (The vernacular name of the original species, in the island of Ceylon, which, though of barbarous origin, has obtained unusual suffrage.) The name of a terms of loans. Class. Pentandria, Order.

name of a genus of plants. Class, Pentandria, Order, Monogynia.

MUSSENDA PONDOSA. Ray attributes a cooling property to an infusion or decoction of this plant, which the Indians drink by the name of beleson,

MUST. The juice of the grape, composed of water,

MUST. The juice of the grape, composed of water, sugar, jelly, gluten, and bitartrite of potassa. By fermentation it forms wine.

MUSTARD. See Sinapis.

Mustard, hedge. See Erysimum alliaria.

Mustard, mithridrate. See Thlaspi.

Mustard, reacle. See Thlaspi.

Mustard, yellow. See Sinapis.

MUTICUS. (From mutilus, without horns.) Beard-less, as applied to the arista or awn of plants.

Gluma:

Mutica, Paralless husks. See Glupa.

ress, as appried to the arists of awn of plants. Gluma muticae, beardless husks. See Gluma.

MU'TITAS. (From mutus, dumb.) Dumbness.
A genus of disease in the class Locales, and order, Dyscinesiae of Cullen, which he defines an inability of articulation. He distinguishes three species, viz.

1. Mutitas organica, when the tongue is removed or injured.

2. Mutitas atonica, arising from an affection of the nerves of the organ.

nerves of the organ.

3. Mutitas surdorum, depending upon being born deaf, or becoming so in their infantile years.

MUYS, Wyrer-William, was born at Steenwyk, in 1682. His father being a physician, he was led to follow the same profession, and at 16 commenced his studies at Leyden, whence he went to Utrecht, and took his degree of doctor in 1701. He settled at first in his native town, and afterward removed to Arnheim, where he practised with reputation. In 1709, he was elected to the mathematical chair at Francker, where he subsequently filled also those of medicine, chemistry and bottany. The House of Orange afterward retained him as consulting physician, with a considerable salary, which he received to the end of his life in 1744. He had been five times rector of the university of Francker, and was a member of the Royal Academy of Sciences of Berlin. His writings Royal Academy of Sciences of Berlin. His writings were partly medical, partly philosophical. Of the former kind was a dissertation, highly commending the use of sal ammoniac in intermittents: also a very elaborate investigation of the structure of muscles, comprehending an account of all that had been previ-

comprehending an account of an unat may been previously discovered on the subject.

Mu'za. See Musa.

MyACA'NTHA. (From μυς, a mouse, and ακανθα, a thorn: so called because its prickly leaves are used to cover whatever is intended to be preserved from

to cover whater is more in the mice.) See Ruscus.

Mra'oro. See Myagrum.

Mra'orum. (From μυμα, a fly, and αγρευω, to seize, because flies are caught by its viscidity.) A species of wild mustard.

(From μυω, to wink, shut up, or obstruct.) MY'CE. 1. A winking, closing, or obstruction. An obsolete term, formerly applied to the eyes, to ulcers, and to the viscera, especially the spleen, where it imports ob-

2. In surgery, it is a fungus, such as arises in ulters and wounds.

3. Some writers speak of a yellow vitriol, which is called Myce.

Mychthi'smos. (From μυζω, to mutter, or groan.) In Hippocrates, it is a sort of sighing, or groaning during respiration, while the air is forced out of the

MYCONO'IDES. (From μυκη, a noise, and ειδος, a likeness.) Applied to an ulcer full of mucus, and which

nkeness.) Appned to an uncer full of mucus, and which upon pressure emits a wheezing sound.

MYCTER. The nose.

MYOTE'RES. Muserpost. The nostrils.

Myors'sts. (From µνδαν, to abound with moisture.)

It imports, in general, a corruption of any part from a redundant moisture. But Galen applies it particularly

redundant moisture. But Gaten appnes it particularly to the eyelids.

My'now. (From μνδαω, to grow putrid.) Fungus or putrid flesh in a fistulous ulcer.

MYDRI'ASIS. (From μνδαω, to abound in moisture: so named because it was thought to originate in redundant moisture.) A disease of the kis. Too great a dilatation of the pupil of the eye, with or without a defect of vision. It is known by the pupil always appearing of the same latitude or size in the light. The species of mydrigsis are. species of mydriasis are,

1. Mydriasis amaurotica, which, for the most part,

but not always, accompanies an amaurosis.

2. Mydriasis hydrocephalica, which owes its origin to a hydrocephalus internus, or dropsy of the ventri-cles of the cerebrum. It is not uncommon among children, and is the most certain diagnostic of the disease.

3. Mydriasis verminosa, or a dilatation of the pupil from saburra and worms in the stomach or small in-

testines.

4. Mydriasis a syncchia, or a dilatation of the pupil, with a concretion of the uvea with the capsula of the crystalline lens.

5. Mydriasis paralytica, or a dilated pupil, from a paralysis of the orbicular fibres of the iris: it is observed in paralytic disorders, and from the application of narcotics to the eye.

6. Mydriasis spasmodica, from a spasm of the recti-lineal fibres of the iris, as often happens in hysteric

and spasmodic diseases

7. Mydriasis, from atony of the iris, the most frequent cause of which is a large cataract distending the pupil in its passing when extracted. It vanishes in a few days after the operation, in general; however, it may remain so from over and long-continued distention

Mylk-Cris. (From μυλη, a grindstone: so called from its shape.) The pateila, or knee-pan.

My'le. Muλη. 1. The knee-pan.

MY LE. Myλη. 1. The knee-pan.
2. A mole in the uterus.
MY'LO. (From μυλη, a grinder tooth.) Names compounded with this word belong to muscles, which are attached near the grinders; such as,

Mylo-Glossi. Small muscles of the tongue.

Mylo-hyotobus. Mylo-hyoidien, of Dumas. This muscle, which was first described by Fallopius, is so called from its origin near the dentes molares, and its insertion into the os hyoides. It is a thin, flat muscle situated between the lower jaw and the os hyoides, and is covered by the anterior portion of the digastricus. If arises fleshy, and a little tendmous, from all the inner surface of the lower jaw, as far back as the insertion of the pterygoideus internus or, in other words, from between the last dens molaris and the middle of the chin, where it joins its fellow, to form one belly, with an intermediate tendinous streak, or linea alba, which extends from the chin to the os hyoides, where both muscles are inserted into the lower edge of the basis of that bone. This has induced Riolanus, Winslow, Albinus, and others, to consider it as a single penni-Its use is to pull the os hyoides upwards, form muscle. forwards, and to either side.

See Constrictor pharyngis MYLO-PHARYNGEUS.

My Lon. See Staphyloma.

MYOCE PHALUM. (From μυτα, a fly, and κεφαλη, a head: from its resemblance to the head of a fly.) A tumour in the uvea of the eye.

MYOCOILITIS. (From μυς, a muscle, and κοιλια,

MYOLOHATTS: (From μυς, a muscles, and κοιλια, a belly.) Inflammation of the muscles of the belly.

MYODESOPSIA. (From μυια, a fly, ειδος, resemblance, and οψε, vision.) A disease of the eyes, in which the person sees black spots, an appearance of flies, cobwebs, or black wool, before his eyes.

MYOLOGY. (Myologia; from μυς, a muscle, and oγος, a discourse.) The doctrine of the muscles. ογος, a discourse.) See Muscle.

MYOPIA. (From  $\mu\nu\omega$ , to wink, and  $\omega\psi$ , the eye.) Near-sighted, purblind. The myopes are considered those persons who cannot see distinctly above twenty inches. The myopia is likewise adjudged to all those who cannot see at three, six, or nine inches. The proximate cause is the adunation of the rays of light in a focus before the retina. The species are,

1. Myopia, from too great a convexity of the cornea.

The cause of this convexity is either from nativity, or a greater secretion of the aqueous humour: hence on one day there shall be a greater myopia than on another. An incipient hydrophthalmia is the origin

of this myopia.

2. Myopia, from too great a longitude of the bulb.
This length of the bulb is native, or acquired from a congestion of the humours in the eye; hence artificers occupied in minute objects, as the engravers of seals, and persons reading much, frequently after puberty be-

as the cornea or lens is more convex. This perfectly accounts for short-sightedness; but an anterior too great convexity of the cornea is the most common cause

4. Myopia, from too great a density of the cornea, Optics teach us, by so much or humours of the eye. somer the rays of light are forced into a focus, as the

diaphanous body is denser.

5. Myopia, from mydriasis, or too dilated a pupil.
6. Myopia infantilis. Infants, from the great co vexity of the cornea, are often myopes; but by degrees, as they advance in years, they perceive objects

more remotely, by the cornea becoming less convex.

MY'OPS. (From μυω, to wink, and ωψ, the eye.)

One who is near-sighted.

MYO'SIS. Muwois. A disease of the eye which consists in a contraction or too small perforation of the pupil. It is known by viewing the diameter of the pu pil, which is smaller than usual, and remains so in an por which is simaler than usual, and remains so in an obscure place, where, naturally, if not diseased, it di-lates. It occasions weak sight, or a vision that re-mains only a certain number of hours in the day; but, if wholly closed, total blindness. The species of this disorder are,

disorder are,

1. Myosis spasmodica, which is observed in the
hysteric, hypochondriac, and in other spasmodic and
nervous affections; it arises from a spasm of the orbicular fibres of the iris.

2. Myosis paralytica arises in paralytic disorders.
3. Myosis inflammatoria, which arises from an inflammation of the iris or uvea, as in the internal oph thalmia, hypopium, or wounded eye.

4. Myosis, from an accustomed contraction of the pupil. This frequently is experienced by those who contemplate very minute objects; by persons who write; by the workers of fine needlework; and by frequent attention to microscopical inquiries.

5. Myosis, from a defect of the aqueous humour, as

after extraction.

6. Myosis nativa, with which infants are born.

. Myosis naturalis, is a coarctation of the pupil by light, or from an intense examination of the minutest These coarctations of the pupil are tempo-

objects. These confidences of the paper arry, and spontaneously vanish.

MYOSI'TIS. (From µug, a muscle.) Inflammation of a muscle. It is the term given by Sagar to acute

rheumatism

MYOSOTIS. (Mvs, a muscle, and ovs, wros, an ear: so called because its leaves are hairy, and grow longitudinally like the ear of a mouse.) See Hieracium pilosella.

MYOTOMY. (Myotomia; from μυς, a muscle, and τεμνο, to cut.) The dissection of the muscles.

MY'RICA. (A name borrowed from the ancient Greeks, whose μυρική, however, appears to be the Tamariz gallica.) The name of a genus or family of plants. Class, Diœcia; Order, Tetrandria.

MYRICA GALE. The systematic name of the Dutch myrtle or sweet willow. Myrtus brabantica; Myrtus myrtee or sweet willow. Sugreto view anglica; Myrtifolia belgica; Gale; Gagel; Rus sylvestris; Acaron; Elwagnus; Elwagnus cordo: Chamwlwagnus; Dodonwo. The leaves, flowers, and syteestris; Action: Fixeagnus; The leaves, flowers, and seeds of this plant, have a strong, fragrant smell, and a bitter taste. They are said to be used among the common people for destroying moths and cutaneous insects, and the infusion is given internally as a stomachic and vermificae. chic and vermifuge.

chic and vermituge.

[MYRICA CERIFERA. See Cera vegetabilis. A.]

MYRICIN. The ingredient of wax which remains after digestion in alkohol. It is insoluble also in water and ather; but very soluble in fixed and volative oils.

MYRIOPHY'LLON. (From µvpto5, infinite, and φυλλον, a leaf, named from the number of its leaves.)

The milfoil plant, a species of Achillaa. See Achillea miltefalium.

MYRI'STICA. The name of a genus of plants in the Linnæan system. Class, Diacia; Order, Mona-

Myristica aromatica. Swart's name of the nut

Myristica Moschata. The systematic name of the tree which produces the nutmeg and mace.

occipied in minute objects, as the engravers of seas, and persons reading much, frequently after puberty become myopes.

3. Myopia, from too great a convexity of the anterior superficies of the crystalline lens. This is likewise from both. The image will so much sooner be formed glabro, of Linnaus. It is a spice that is well known,

and has been long used both for culinary and medical purposes. Distilled with water they yield a large quantity of essential oil, resembling in flavour the spice itself; after the distillation, an insipid schaceous matter is found swimming on the water; the decoction, inspissated, gives an extract of an unctuous, very slightly bitterish taste, and with little or no astringency. Rectified spirit extracts the whole virtue of nutnegs, by infusion, and elevates very little of it in distillation hence the spirituous extract possesses the flavour of the spice in an eminent degree. Nutmegs, when heated, yield to the press a considerable quantity of limpid, yellow oil. There are three kinds of unctuous substances, called oil of mace, though really expressed from the nutmeg. The best is brought from the East Indies, in stone jars; this is of a thick consistence, of the colour of mace, and has an agreeable fragiant smell; the second sort, which is paler-coloured, and anuch inferior in quality, comes from Holland, in solid masses, generally flat, and of a square figure; the third, which is the worst of all, and usually called common oil of mace, is an artificial composition of suet, palm-oil, and the like, flavoured with a little genuine oil of nutmeg. The medicinal qualities of nutmeg are supposed to be aromatic, anodyne, stomachic, and astringent; and hence it has been much used in diarrheas and dysenteries. To many people, the aro-matic flavour of nutner is very agreeable; they, how-ever, should be cautioned not to use it in large quantities, as it is apt to affect the head, and even to manifest an hypnotic power in such a degree as to prove extremely dangerous. Bontius speaks of this as a frequent occurrence in India; and Dr. Cullen relates a remarkable instance of this soporific effect of nutmeg, remarkable instance of this soportic enect of tuning, which fell under his own observation; and hence concludes that, in apoplectic and paralytic cases, this spice may be very improper. The officinal preparations of nuture are a spirit and an essential oil, and the nutureg, in substance, roasted to render it more astringent; both the spice liself and the essential oil enter several compositions, as the confectio aromatica,

enter several compositions, as the confectio aromatica, spiritus ammoniae aromaticus, &c.

2. Mace is the middle bark of the nutneg. A thick, tough, reticulated, unctuous membrane, of a lively, reddish-yellow colour, approaching to that of saffron, which envelopes the shell of the nutneg. The mace, when fresh, is of a blood-red colour, and acquires its yellow hue in drying. It is dried in the sun, upon hurdles fixed above one another, and then, it is said, sprinkled with sea-water, to nevent its cruphling in sprinkled with sea-water, to prevent its crumbling in carrying. It has a pleasant, aromatic small, and a warm, bitterish, moderately pungent taste. It is in common use as a grateful spice, and appears to be in its general qualities nearly similar to the nutmeg. The principal difference consists in the mace being much warmer, more bitter, less unctuous, and sitting easier on weak stomachs. Mace possesses qualities similar to those of nutmeg, but is less astringent, and its oil is

supposed to be more volatile and acrid.

Myrrstrca nux. See Myristica moschata.

Myrms'cta. (From µvojuğ, a pismire.) A small
painful wart, of the size and shape of a pismire. See

Murmecium.

MYRME'CIUM. A moist soft wart about the size of a lupine, with a broad base, deeply rooted, and very painful. It grows on the palms of the hands and soles of the feet.

Myro'copum. (From μυρον, an ointment, and κοπος,

Myro'corum. (From µvpov, an ointment, and κοπος, labour.) An unguent to remove lassitude.

MYROBALAN. See Myrobalanus.

MYROBALANUS. (From µvpox, an unguent, and faλavox, a nut: so called because it was formerly used in ointments.) A myrobalan. A dried fruit of the plum kind, brought from the East Indies. All the myrobalans have an unpleasant, bitterish, very anstere taste, and strike an inky blackness with a solution of steel. They are said to have a gently ungative as They are said to have a gently purgative as well as an astringent and corroborating virtue. this country they have been long expunged from the pharmacopæias. Of this fruit there are several

Myrobalanus bellirica. The belliric myrobalan. The fruit is of a yellowish-gray colour, and an irregular roundish or oblong figure, about an inch in length, and

three quarters of an inch thick.

Myrobalanus Chebula. The chebule myrobalan.

This resembles the yellow in figure and ridges, but is

larger, of a darker colour, inclining to brown or blackish, and has a thicker pulp.

MYROBALANUS CITRINA. Yellow myrobalan. fruit is somewhat longer than the belliric, with generally five large longitudinal ridges, and as many smaller between them, somewhat pointed at both ends.

MYROBALANUS EMBLICA. The en blic inyrobalan is of a dark blackish-gray colour, roundish, about half an inch thick, with six hexagonal faces, opening from one

MYROBALANUS INDICA. The Indian or black myro-balan, of a deep black colour, oblong, octangular, dif-fering from all the others in having no stone, or only the rudiments of one, from which circumstance they are supposed to have been gathered before maturity.

My'RON. (From μυρω, to flow.) An ointment, medicated oil, or unguent.

Mynophyllum. Millefolium aquaticum. Water-fennel. It is said to be vulnerary. MYROXYLON. (From pupor, an ointment, and kylor, wood.) The name of agenus of plants in the Linnean system. Class, Diandria; Order, Mono-

Myroxylon perufferum. The systematic name of the tree which gives out the Peruvian balsam. Balthe free Which gives out to Pertuyan Joseans. Das samum perucionum; Patrockoll; Indian, Mexican, and American bulsam; Carbarecha, is the name of the tree from which, according to Piso and Ray, it is taken. It is the Myroxylon perujerum, of Lumaus, which grows in the warmest provinces of South America, and is remarkable for its elegant appearance. Every part of the tree abounds, with a resineus juice; even

the leaves being full of transparent resinous points, like those of the orange-tree.

Balsam of Peru is of three kinds: or rather, it is one and the same balsam, having three several names: 1.

The balsam of incision; 2. The dry balsam; 3. The balsam of lotion. The virtues of this balsam, as a cordial, pectoral, and restorative, stimulant, and tonic, are by some thought to be very great. It is given with advantage from 5 to 10 or 15 die ps for a dose, in dysadvantage from a to 10 or 10 dreps for a dose, in dys-pepsia, atonic gout, in consumptions, astimas, ne-phritic complaints, obstructions of the viscera, and suppressions of the menses. It is best taken dropped upon sugar. The yelk of an egg, or muchage of gun-arabic, will, indeed, dissolve it; it may, by that way, be made into an emission, and it is less aerid in that form than when taken singly. It is often made an ingredient in boluses and electuaries, and enters into two of the officinal compositions; the functura balsami Peruviani composita, and the trochisci glycyrrhize. ternally, it is recommended as a useful application to relaxed ulcers, not disposed to heal.

MYRRHA. (A Hebrew Word. Also called stacte, and the worst sort ergasma.) A botanical specimen of the tree which affords this gum resin has not yet been obtained; but from the account of Bruce, who says it very much resembles the Acacia very of Linnaus, there can be little doubt in referring it to that name, there can be interested until the reterring to change genus, especially as it corresponds with the description of the tree given by Dioscorides. The tree that affords the myrrh, which is obtained by incision, grows on the eastern coast of Arabia Felix, and in that part of Abyssinia which is situated near the Red Sea, and is called by Bruce, Troglolyte. Good myrrh is of a turbid black-red colour, solid and heavy, of a peculiar smell, and bitter taste. Its medicinal effects are warm, corroborant, and antiseptic; it has been given as an emmenagogue in doses from 5 to 20 grains; it is also given in cachexies, and applied externally as an antiseptic and vulnerary. In doses of half a drachm. Dr. Cullen remarks that it heated the stomach, produced sweat, and agreed with the balsams in affecting the urinary passages. It has lately come more into use as a tonic in hectical cases, and is said to prove less heating than most other medicines of that class. Myrrh dissolves almost totally in boiling water, but as the liquor cools, the resinous matter subsides. Rectified spirit dissolves less of this concrete than water; but extracts more perfectly that part in which its bitterness, virtues, and flavour reside; the resinous matter which water leaves undissolved is very bitter, but the gummy matter which spirit leaves undissolved is insipid, the spirituous solution containing all the active part of the spirituals solution containing and the external affec-tions of a putrid tendency; and also as a wash, when diluted, for the teeth and guins. There are several

preparations of this drug in the London and Edinburgh Pharmacoposis.

MYRRHI'NE. (From µuppa, myrrh: so called be-cause it smells like myrrh.) The common myrtle.

See Myrtus communis.

My Rrus. (From pupps, myrth; so named from its myrth-like smell.) Sweet cicely See Scandiz

MYRSINELE'UM. (From progress, the myrtle, and

MYRSINELE ON. (From μυρουγή, the myrde, and shatov, oil.) Oil of myrtle.

MYRTACA NTHA. (From μυρους, a myrtle, and ακανθα, a thorn: so called from its likeness to myrtle, and from its prickly leaves.) Butcher's broom.

MYRTI DANUM. (From µυρτος, the myrtle.) An excrescence growing on the trunk of the myrtle, and used as an astringent.

used as an astringent.

Myntiform ouruncles. See Carunculæ myrtiformes.

Myrtiform glands. See Carunculæ myrtiformes.

MYRTILL'S. See Vaccinium myrtiflus.

MYRTILE See Myrtus.

Myrtle, Dutch. See Myrica gale.

MYRTOR. The clitoris.

MY RTON. The clitoris,

MY RTON. The clitoris,

MY RTON. (From µupros, a myrtle.) A little prominence in the pudenda of women, resembling a myrtle-berry. It also means the clitoris.

MY'RTUS. (From µupros, myrth, because of its Smell or from µurpa, a virtin, who was fabled to

myrtle-berry. It also means the cutoris.

MYRTUS. (From μυρρα, myrrh, because of its smell, or from Myrrha, a virgin, who was fabled to have been turned into this tree.) 1. The name of a genus of plants in the Linnæan system. Class, Losandria; Order, Monogynia.

2. The pharmacopæial name of the myrtle. See

Myrtus ommunis.

Myrtus drabantica. See Myrica gale.

Myrtus drabantica. The systematic name

Carria cary-MYRTUS BRABANTICA. See Myrica gale.

MYRTUS CARVOPHYLLATA. The systematic name
of the tree which affords the clove bark. Cassia caryophyllata. The bark of this tree, Myrtus—pedunculis trifido-multifleris, folkis ovatis, of Linneus, is a
warm aromatic, of the smell of clove spice, but

weaker, and with a little admixture of the cinnamon flavour. It may be used with the same views as cloves, or cinnamon.

The systematic name of the MYRTUS COMMUNIS.

common myrtle.

Myrthes comments italica. Oxymyrrhine; Oxymyrsine. The berries of this plant are recommended in alvine and uterine fluxes, and other disorders from relaxation and debility. They have a roughish, and not unpleasant taste, and appear to be moderately assistive and corroberant paralleling also discovered. tringent and corroborant, partaking also of aromatic qualities.

qualities.

Myrtus Pimenta. The systematic name of the tree which bears the Jamaica pepper, or allspice. Pimento; Piper caryophyllatum; Cocculi Indi aromatici; Piper chappe; Amonum pimenta; Caryophyllus aromaticus; Caryophyllus americanus; Piper odoratum jamaicuse. Myrtus-floribus trichotomarpaniculatis, folios oblongo-lumerolatis, of Limaus. This spice, which was first brought over for dietetic uses, has been long employed in the shors as a succediment. has been long employed in the shops as a succedaneum to the more costly oriental aromatics: it is moderately warm, of an agreeable flavour, somewhat resembling warm, of an agreeable havour, somewhat (esembing that of a mixture of cloves, cinnamon, and nutniegs. Both pharmacoperas direct an aqueous and spirituous distillation to be made from these berries; and the Edinburgh College orders the Oleum essentiale piperis

MY'STAX. The hair which forms the beard in man, on each side the upper lip. See Capillus.

My Vays. An epithet for a sort of sinking pulse, when the second stroke is less than the first, the third than the second, &c. Of this there are two kinds: the first is when the pulse so sinks as not to rise again; the other, when it returns again, and rises in some degree. Both are esteemed bad presages.

My vos second. (From wife, mucros and work)

Myxos arco ma. (Prom μυξα, mucus, and σαοξ, flesh.) Mucocarneus. A tumour which is parity fleshy and parity mucous.

MY'XTER. (From µvξa, the mucus of the nose.) The nose or nostril.

N. In prescriptions the number, in number.

NACRITE. See Talcite. In prescriptions this letter is a contraction for of barytes, decomposes by sulphuric acid the barytic

An abscess of the breast.

NADLESTEIN. An ore of Titanium.

NA'DUCEM. A uterine mole.

NÆ'VUS. (Nævus, i. m.) A natural mark, spot, or blemish.

NÆ'VUS MATERNUS. Macula matricis; Stigma, NEVUS MATERNUS. Macua marrors; Sugma, Metroccius. A mother's mark. A mark on the skin of children, which is born with them, and which is said to be produced by the longing of the mother for particular things, or her aversion to them; hence these marks resemble mulberries, strawberries, grapes, pines, bacon, &c.

NA'1 CORONA. A name of the cowage.
NAIL. See Unguis.
NA'KIR. According to Schenkius this means wan-

dering pains of the limbs.

NANCEIC ACID. Acidam nanceicum. Zumic acid. "An acid called by Braconnot, in honour of the town of Nancy, where he lives. He discovered it in many acescent vegetable substances; in sour rice; in putrefied juice of beet-root; in sour decoction of car-rots, pease, &c. He imagines that this acid is generated at the same time as vinegar in organic substances, when they become sour. It is without colour, does not crystallize, and has a very acid taste.

He concentrates the soured juice of the beet-root till

it becomes almost solid, digests it with alkohol, and evaporates the alkoholic solution to the consistence of syrup. He dilutes this with water, and throws into it carbonate of zinc till it be saturated. He passes the liquid through a filter, and evaporates till a pelific appears. The combination of the new acid with oxide of zinc crystallizes. After a second crystallization, he redisciples it is average require in mergers of water. he redissolves it in water, pours in an excess of water

of barytes, decomposes by sulpiture and the baryte salt formed, separates the deposite by a filter, and obtains, by evaporation, the new acid pure.

It forms with alumina a salt resembling gum, and with magnesia one unalterable in the air, in little granular crystals, soluble in 25 parts of water at 660 Fahr; with potassa and soda it forms uncrystallizable salts, deliquescent and soluble in alkohol; with lime and strontites, soluble granular salts; with barytes, an uncrystallizable nondeliquescent salt, having the aspect of gum; with white oxide of manganese, a salt which crystallizes in tetrahedral prisms, soluble in 12 parts of water at 66°; with oxide of zinc, a salt crystallizing in square prisms, terminated by summits obliquely truncated, soluble in 50 parts of water at 66°; with iron, a salt crystallizing in slender four-sided needles, of sparing solubility, and not changing in the air; with red oxide of iron, a white noncrystallizing salt; with oxide of tin, a stit crystallizing in wedge-form octahedrons; with oxide of lead, an uncrystallizable salt, not deliquescent, and resembling a gum; with black oxide of mercury, a very soluble salt, which crystallizes in

NAPE'LLUS. (A diminutive of napus: so called because it has a bulbous root like that of the napus.) See Aconitum.

NA'PHÆ FLORES. Orange flowers are sometimes so

NA'PHE FLORES. Orange flowers are sometimes so called. See Citrus aurantium.

NA'PHTHA. (Naphta, ω. f.; ναφθω). A native combustible liquid of a yellowish white colour, perfectly fluid and shining. It feels greasy, and exhales an agreeable bituminous smell. It occurs in considerable springs on the shores of the Caspian Sea, in Sicily, and Italy. It is used instead of oil, and differs from petroleum obtained by distilling coal only by its greater purity and lightness. This fluid has been used as an external application for removing old pains, neryous external application for removing old pains, nervous

disorders, such as cramps, contractions of the limbs, | paralytic affections, &c.
Naphtha vitrioli. See Æther sulphuricus.

NAPIFO'LIA. Bore cole. See Brassica.
NA'PIUM. See Lapsana communis.
["NAPTHALINE This substance is one of the products of the decomposition of coal. If the distillation be conducted at a very gentle heat, naptha, from its greater volatility, first passes over, and afterward napthaline rises in vapour, and condenses in the neck

the retort, as a white crystalline solid.

"Pure napthaline is heavier than water, has a pun-"Ture napthallie is neavier than water, has a pungent aromatic taste, and a peculiar odour not unlike that of the narcissus. It is smooth and unctuous to the touch, is perfectly white, and has a silvery lustre. It fuses at 180° Fah., volatilizes slowly at common temperatures, and boils at 410° Fah. It is not very readily inflamed, but when set on fire it burns rapidly, and emits a large quantity of smoke. It is soluble in cold, and dissolves very sparingly in hot water. Its proper solvents are alkohol and ether.

Sulphuric acid enters into direct combination with napthaline, and forms a new and peculiar acid, which Mr. Faraday has described under the name of sulpho-

napthalic acid.

"Napthaline, according to Dr. Thompson, is a sesqui-curburet of hydrogen, that is, a compound of 9, or an a om and a half, of carbon, and 1 atom of hydrogen."

-Webs. Man. Chem. A.]
NA'PUS. See Brassica napus.
NAPUS DULCIS. See Brassica rapa.

NAPUS SYLVESTRIS. See Brassica rapa.

NAPUS SYLVESTRIS. See Brassica rapa.

NARCAPITHUM. A name of the cordial confection.

NARCISSUS. A genus of plants in the Linnean system. Class, Hexandria; Order, Monogynia.

NARCO SIS. (From vapkow, to stupily.) Stupe-

faction, stupor, numbness NARCOTIC, (Narrow

NARCOTIC. (Narcotictis; from ναρκοω, to stu-pify.) A medicine which has the power of procuring sleep. See Anadyne. NARCOTINE. The active principle of narcotic

vegetables. See Opium.

NARD. See Valeriana celtica.

Nard, Indian. See Indropogon nardus.
Nardo'stachys. (From yapdos, spikenard; and raxus, sage.) A species of wild sage resembling spikenard in its leaves and smell.

Spikenard.

NA RDUS. (From nard, Syrian.) Spiker NARDUS CELTICA. Valeriana celtica. NARDUS INDICA. See Andropogon nardus.

NARDUS ITALICA. The lavendula spica of Linnæus

NARDUS MONTANA. An old name of asarabacca. See Asarum curopeum.

NARDUS RUSTICA. An old name of the asarabacca.

See Asarum europeum.

See Asarum europeum.

Narifygo'nia. (From nares, the nostrils, and fundo
to pour.) Medicines dropped into the nostrils.

NA'RIS. The nostril. The cavity of the nostrils
is of a pyramidal figure, and is situated under the
anterior part of the cranium, in the middle of the face.

The two nostrils are composed of fourteen bones, viz. The two mastris are compared or said two lachrymal, two inferior spongy, the sphenoid, the vomer, the ethmoid, and two palatine bones, which form several eminences are the september of the september of two palatines. The eminences are the september of two palatines are the september of the september of two palatines. tum narium, the cavernous substance of the ethmoid bone, called the superior conchæ, and the inferior spongy bones. The cavities are three pair of pituitary spongy nones. The cavities are times pair or plants sinuses, namely, the frontal, sphenoid, and maxillary the anterior and posterior foramina of the nostrils the ductus nasalis, the sphenopalatine foramina, and anterior palatine foramina. All these parts are covered with periosteum, and a pituitary membrane which secretes the mucus of the nostrils. The arteries of this cavity are branches of the internal maxillary. The veins empty themselves into the internal jugulars. The nerves are branches of the olfactory, ophthalmic, and superior maxillary. The use of the nostrils is for smelling, respiration, and speech.

Smelling, respiration, and speech.

NARIS compressor naris.

NARIS compressor naris.

NARTA. (Napra, ex nardi odore, from its smell.)

A plant used in cintinents.

NARTHECIA. (From Narthecis, the island where it flourished.) Narthex. A kind of fennel.

NASALIS. (From nasis. the nose.) Addertain-

NASALIS LABII SUPERIORIS. See Orbicularis oris. NASA'RIUM. (From nasus, the nose.) The mucus the nose.

NASCA'LE. (From nasus, the nose.) A wood or

NASCA LE. (From mass, the nose.) A wood or cotton pessary for the nose.

NASCA PHTHUM. Cordial confection.

NASCA PHTHUM. Cordial confection.

NASCA PHTHUM. Cordial confection. alæque nasi.

The two small bones of the nose that NASI OSSA.

NASI 0383. The two small bones of the nose that are so termed from the bridge of the nose. In figure they are quadrangular and oblong.

NASTUTATUM. (Quad nasum torqueat, because the seed, when bruising, irritates the nose.) The name of a genus of plants in the Linnaran system. Class, Tetradynamia; Order, Sdiquosa.

NASTURTIUM AQUATICUM. See Sisymbrium nastur-

NASTURTIUM HORTENSE. See Lepidium sativum.
NASTURTIUM INDICUM. See Tropwolum majus.
NA'SUS. The nose.
NA'TA. Natta. A species of wen with slender

pendent neck. Linnæus speaks of it as rooted in a

(From nato, to swim.) Floating on the surface of the water: applied to leaves, in opposi-tion to those which are naturally under, and different,

and are called demersed, immersed, and submersed; and are cannot contensed, minerieeu, and submerseu, as in Potamogeton nato, to flow; because the excrements are discharged from them.) 1. The buttocks, or the fleshy parts upon which we sit.

2. Two of the eminences, called turbercula quadrigues.

mina, of the brain, are so named from their resemblance.

NATES CERECRI. Sec Tubercula quadrigemina. NATROLITE. A subspecies of prismatic zeolite.

or mesotype.
["This substance has usually occurred in small, reniform, rounded, or irregular masses, composed of very minute fibres. The fibres are divergent, or even radiate from a centre; and are sometimes so very minute and close, that the fracture appears almost or quite compact. It has little or no lustre. Sometimes also it pre-sents minute crystals, especially on the surface of its masses, whose forms appear to be similar to those of the Zeolite.

Before the blow-pipe it easily melts into a white glass, which often contains small bubbles. In intricacid it is reduced, in the course of a few hours, without effervescence, into a jelly somewhat thick. It contains sites 48.0, aluming 24.25, sola 16.5, water 9.0, oxide of iron 1.75;=99.5 (according to Klaproth). This result is very similar to that obtained by Smith

Son Tennant, from the Zeolite.—Cleav. Min. A.]
NATRON. (So called from Natron, a lake in
Judæa, where it was produced.) Natrum. 1. The
name formerly given to the alkali, now called soda.

See Sada.

2. A native salt, which is found crystallized in Egypt, in the lake called Natron, and in the other hot countries, in sands surrounding lakes of salt water. It is an impure subcarbonate of soda, and there are two kinds of it, the common and the radiated.

3. The name of an impure subcarbonate of soda, obtained by burning various marine plants. See Soda.

Obtained by burning various marine plants. See Soda.

NATRON MURIATUM. See Soda murias.

NATRON PREFARATUM. See Soda subcarbonas.

NATRON VITRIGLATUM. See Soda subpas.

NATCLE. (Diminutive of nates, the buttocks: so called from their resemblance.) The two uppermost of four small eminences of the brain. See Tubercula

NATURAL. Appertaining to nature

NATURAL ACTIONS. Those functions by which the body is preserved; as hunger, thirst, &c. See Actions

body is preserved; as nunger, thirst, &c. See Actions. NATURAL HISTORY. A description of the natural products of the earth, water, or air; &c. gr. beasts, birds, fish, insects, worms, plants, metals, minerale, and fossils; together with such extraordinary phenomena as at any time appear in the material world, as meteors, monsters, &c.

NATURAL ORDERS. A division or arrangement of plants, from their external habits or characters. They are

1. Conifera. 2. Amentacca.

3. Composite. 4. Aggregate.

Conglomerata. Columnifere. Ilmhell ata Caryophyllæ. Sarmentacee. Colycantheme. Stellate. Asciroure. 10. Cymosæ Coadunate. Cucurbitacee. Luridæ. Trihilatæ. Campanaceæ. Tricorca. 14 Contorta. Rotacen 41. Scabride. 16. Sepiacia. Vapicculæ. Bicornes Pipirite. Asperifolia. Scetamineæ. 19. Liliaceæ. Personata. 46 Ensuta. Rhoeadea. Tripetaloidea.

Putaminea. Siliquosa. Culmaria. Papilionacea 50. Gramina. Tomentacea. Palmæ. 26 Multisiliqua. Filices. Senticosæ. 53. Musci. Pamucea. 54. Alga. 55. Fungi.

00 Hesperide. 30. Succulenta.

Physics. The VATURAL PHILOSOPHY. which considers the properties of natural bodies, and with moral philosophy or ethics, which treat of the phenomena of mind and rules of morality.

NATURA'LIA. (From natura, mature.)

paris of generation.

Natura; from nascor, natus.) A term variously used.

1. It is most frequently employed to express the system of the world, the assemblage of all created beings, and in this case is synonymous with world, or universa

That power which is said to be duffused throughout the creation, moving and acting mail bodies, and giving them certain properties. In this last sense, when a personitied being is meant, nature is nothing else but God, acting himself, and according to certain laws which he himself has fixed. According to the supposition of some, however, the principle called nature is a power delegated by the Creator; as it were, a middle being between God and created things, which has been styled Anima mundi; but it does not appear that there is any foundation for this hypothesis, or that any thing is explained by referring the whole series of second causes to an intermediate principle, instead of to one universal agent.

3. In medical writings, the expression nature is usually taken for the aggregate of powers belonging to any body, especially a living one; as when physicians say that, in such a disease nature, left to herself, will perform the cure. It may be proper here to observe, with regard to this phrase of leaving the cure to nature, that there is a wide difference between suspending for a time all interference with the vital processes, and neglecting a disease; although to those who are ignorant of the principles of medicine, these appear to be the same thing.

It would be the perfection of this science to ascertain upon what causes healthy and diseased actions depend and to what extent either can be affected by human agency; but at present the judicious physician never aims at a cure independently of the original powers of agency. But at present the juniforms physician never aims at a cure independently of the original powers of the system, but rather seeks to call them into action, or, at most, to assist when the inherent clasticity of the vital functions is insufficient to recover them from the oppression of disease. As, for example, when we allow a wound to heal by the first intention, or restore the digestive functions by obliging a man to attend to the rules of diet and exercise, &c. upon which health depends; we call upon the restorative powers of Nature, because art, that is to say, human ingenuity, can supply nothing equivalent. Or, again, when, in the treatment of a diseased joint, rest is enjoined at one period on account of inflammation, and perhaps motion is ordered at another, to keep up the proper uses of the part, we show the importance of alternately interfering and looking on, as we judge it proper to check the tendency of vital actions, or to trust entirely to them. While to those who are ignorant of these principles, the practitioner, when really exercising his greatest-ekill, is supposed to be idle. greatest skill, is supposed to be idle.

NAUSEA. (Navota; from vavs, a ship; because it is a sensation similar to that which people experience upon sailing in a ship.) Navisiosis; Nautia. An inclination to voint without effecting it; also a disgust of food approaching to vointing. It is an attendant on cardiagia, and a variety of other disorders, pregnancy, &c. occasioning an aversion for food, an increase of saliva, disgusted ideas at the sight of various objects, loss of appetite, debility, &c.

NAUSTAL See Nausea.

NAUTICUS. (Nauticus, a sailor; so called from

NAUTIA. See Nausea.
NAUTICUS. (Nauticus, a sailor: so called from the use which sailors make of it in climbing ropes.) A muscle of the leg, exerted in climbing up. NAVEW. See Brassica rana.

See Brassica rapa.

NAVEW. See Brassica rapa.
Navew, garden. See Brassica rapa.
Navew, seect. See Brassica rapa.
NAVICULARE OS. Naviformis; Navicularis;
Os scaphodes; (gmba. A bone of the carpus and tarsus is so called, from its supposed resemblance to a leat.

NAVICULA'RIS. (From navicula, a little boat.) See Naviculare os.

NAVIOR RMS. See Mariculare os.
NEAPOLITAN. (From Meapolis, or Naples, because it was said to have been first discovered at Naples, when the French were in possession of it.)
The veneral disease was once so called.
NETRILA. (From νεφέλη.) 1. A cloudy spot in

the cornea of the eye.

The cloud-like appearance in the urine, after it

has been a little time at rest.

NECK. Collum. The parts which form the neck are divided into external and internal. The external parts are the common integuments, several muscles, eight pair of cervical nerves, the eighth pair of nerves the cerebrum, and the great intercostal nerve; the two carotid arteries, the two external jugular veins, and the two internal; the glands of the neck, viz. the jugular, submaxillary, cervical, and thyroid. The internal parts are the fances, phay nx, esophagus, larynx, and trachea. The bones of the neck are the seven cervical vertebræ.

NECRO'SIS. (From νεκρω, to destroy.) This word, the strict meaning of which is only mortification, is, by the general consent of surgeons, confined to an affection of the bones. The death of parts of bones was not distinguished from cartes, by the ancients. How-ever, necrosis and caries are essentially different; for in the first, the affected part of the bone is deprived of the vital principle; but this is not the case when it is simply carious. Caries is very analogous to ulceration, while necrosis is exactly similar to mortification of the soft parts.

NECROSIS USTILAGINEA. A painful convulsive contraction of the limbs. See Raphania.

NETTAR NEXTAG. A wine made of honey.

NECTARIUM. The nectary. An accidental part of a flower which does not come under the description of any of its organs. It may be defined that part of the corolla which contains or which secretes honey. though it is not necessary to a nectary that honey be

Scarce a flower can be found that has not more or less honey, though it is far from being universally, or even generally formed, by an apparatus separate from

In monopetalous flowers, as the Lamium album, the dead nettle, the tube of the corolla contains, and probably secretes, the honey without any evident nectary.

sometimes the part under consideration is a produc-tion or elongation of the corolla, as in the violet: some-times indeed of the callyx, as in the garden nasturium, Tropasolum, the coloured callyx of which partakes much of the nature of the petals.

Sometimes it is distant from both, either resembling the petals; as in Aquilegia; or more different as in Epimedium, Aconitum, Heldeborus, Delphinium, Such at least is the mode in which Linnaus and his followers understand the four last numbered flowers.

The most indultifiable of all northing as acqually each.

understand the four last numbered flowers.

The most indubitable of all nectaries, as actually secreting honey, are those of a glandular kind. In the natural order of cruciform plants, composing the class Tetradiyamia, there are generally four green glands at the base of the stamens, as in Dentaria, and Sisymbrium; while in Pelargonium, the nectary is a tube running down one side of the flower-stalk. The ele-

gant Parnassia has a most elaborate apparatus or nectary.-Smith

From the figure of the nectary it is said to be,

1. Calcurate, or spur-like; as in Aquilegia vulgaris, Delphinium ajax, and Antirrhinum linaria.

Delphinium ajax, and Antirrhinum inaria.

2. Cucullate, hooded; as in Impatiens balsamina,
Aconitum, and Asclepias vincetoxicum.

3. Foreate, a lutle depression in the claw of the petal; as in Fritiliaria imperialis.

4. Campanulate; as in Narcissus jonquilla and Pseu-

5. Crown-like; as in Passiflora cærulea.

6. Pedicellate, resting on a partial flower-stalk; as in Aconitum napellus.

7. A bilabiate tube; as in Helleborus fœtidus, and Nigella. 8. Pariform, there being three pores in the germen;

as in the Hyacinths.

9. Squamate, a little scale in the claw; as in Ranunculus. 9. Squamate, a little scale in the claw; as in Ranuncultis.
10. Glandular, little nectiferous glands between the stamens and pistils; as in Sinapis aiba.
11. Stellate, a double star covering the internal organs; as an Stapelia.
12. Pilous, fine hairy fascicles at the base of the stamina; as in Parnassia palustris.
13. Bearded; as in Iris germanica.
14. Evenue form, ached: small, prolongations at the

14. Forniciform, arched; small prolongations at the opening of the corolla, and covering the internal organs; as in Symphatum officinale, and Myosotis scorpioides.

15. Bristle-like, fine horn-like filaments around the

internal organs; as in Periploca græca.

nernal organs; as in reinflood greeca.

17. Scrotiforme, behind the flower; as in Satyrium.

18. Horn-like, behind the flower; as in Orchis.

19. Sandaliform, slipper-like; as in Cypripedium

calceolus

20. Globose, inverting the germen; as in Mirabilis

21. Cyathiform, cup-like; as in Urtica urens.
22. Conical; as in Utricularia foliosa.
23. Acidiforme, pitcher-like, a membraneous tube,
containing water, and behind the flower; as in Ascium and Ruyschia.

24. Calycine, adhering to the calyx, by a spur; as in

Tropæolum majus.

NEDY'1A. (Nedys; from νηδυς, the belly.) The

NEEDLE ORE. Acicular bismuth glance.

Needle-shaped leaf. See Accross.

Needle-shaped leaf. See Accross.

Needle-scolite. See Zeolite.

NEGRO CACHEXY. Cachexia africana. A propensity for eating earth, common to males as well as females, in the West Indies and Africa.

(From yetapos, furthermost.) The lower NELE'RA.

part of the belly. NEMORO'SA.

(From nemus, a grove: so called because it grows in woods.) A species of wind-flower, the Anemone nemerosa, of Linnæus.

NEP. See Nepeta.

NE'PA THEOPHRASTI. See Spartium scoparium. NEPE'NTHOS. (From νη, neg. and ωενθος, grief: so called from their exhibarating qualities.) 1. A preparation of opium.

A kind of bugloss.

2. A kind of bigloss.

NE'PETA. (From nepte, German.) The name of a genus of plants in the Linnean system. Class, Didynamia; Order, Gymnospermia.

dynamia; Urder, Gymnospermia.

NEPETA CATARIA. The systematic name of the catmint. Herba felis; Mentha felina; Calamintha;
Nepetclla; Mentha cataria. The leaves of this plant,
Nepetca—for-bus spicatis; verticillis; subpedicellatis;
folis petiolatis, cordatis, dentato-servatis, of Linneus,
the petiolatis cordatis, dentato-servatis, of Linneus, have a moderately pungent aromatic taste, and a strong smell, like an admixture of spearmint and pennyroyal. The herb is recommended in uterine disorders, dyspepsia, and flatulency

NERFETE LLA. (Dim. of nepeta.) The lesser caunint.

A cloud-like

NEPETE'LLA. (Dim. of nepeta.) The lesser catmint. NE'PHELA. (Dim. of νεφος, a cloud.) A cloud-like oot on the cornea of the eye.

NEPHELOI'DES. (From νεφελη, a cloud, and ειδος,

a likeness.) Cloudy. Applied to the urine.
NEPHRA'LGIA. (From νεφρος, the kidney, and αλγος, pain.) Pain in the kidney.
NEPHRELINE. Rhomboidal felspar. This occurs NEPHRELINE. Rhomboidal felspar. This occurs in drusy cavities along with ceylanite, vesuvian, and meionite, at Monte Somma, near Naples, in drusy ca-

NEPHRITE. Of this mineral there are two species, common nephrite, and axe-stone. The former is of a leek-green colour, and occurs in granite and gneiss, in Switzerland. The most beautiful come from Persia Switzerland. The most beautiful come from reises and Egypt. See Axestone.

NEPHRITIC. (Nephriticus; from veppos, the kid-

NEPHRITIC. (Nephriticus; irom reppos, the saurney.) Of or belonging to the kidney.

2. Medicine is so termed that is employed in the cure of diseases of the kidneys.

Nephritic vood. See Guilandina moringa.

NEPHRITICA AQUA. Spirituous distillation of nutmeg and hawthorn flowers.

NEPHRITICS. (Nephritis, idis. f.: from veopos, a kidney.) Inflammation of the kidney. A genus of disease in the class Pyreria and order Philogmania, of Cullon: known by pyrkia, pain in the region of the disease in the class Pyrerie and order Phlogmaria, of Cullen; known by pyrexia, pain in the region of the kidneys, and shooting along the course of the ureter; drawing up of the testicles; numbness of the thigh; vomiting; urine high-coloured, and frequently discharged; costiveness, and coile pains. Nephritis is symptomatic of calculus, gout, &c.

This inflammation may be distinguished from the colic by the pain being seated very far back, and by the difficulty of passing urine, which constantly attends it; and it may be distinguished from rheumatism, as the pain is but little influenced or increased by motion.

Nephritis is to be distinguished from a calculus in the kidney or ureter, by the symptoms of fever accompanying, or immediately following the attack of pain, and these continuing without any remarkable intermission; whereas, in a calculus of the kidney or ureter, they do not occur until a considerable time after vio-lent pain has been felt. In the latter case, too, a numb-ness of the thigh, and a retraction of the testicle on the affected side, usually takes place.

ameeted since, usually takes place.

The causes which give rise to nephritis are external contusions, strains of the back, acrids conveyed to the kidneys in the course of the circulation, violent and severe exercise, either in riding or walking, calculous concretions lodged in the kidneys or ureters, and exponents and the contractions of the contractions. sure to cold. In some habits there is an evident predisposition to this complaint, particularly the gouty, and in these there are often translations of the matter to

the kidneys, which very much imitate nephritis.

An inflammation of the kidney is attended with a sharp pain on the affected side, extending along the course of the ureter; and there is a frequent desire to make water, with much difficulty in making it. The body is costive, the skin is dry and hot, the patient feels great uneasiness when he endeavours to walk, or sit upright; he lies with most case on the affected side, and is generally troubled with nausea and frequent vomiting.

When the disease is protracted beyond the seventh or eighth day, and the patient feels an obtuse pain in the part, has frequent returns of chillness and shiverings, there is reason to apprehend that matter is formg in the kidney, and that a suppuration will ensue. Dissections of nephritis show the usual effects of in-

flammation on the kidney; and they likewise often discover the formation of abscesses, which have destroyed its whole substance. In a few instances, the kidney

has been found in a scirrhous state.

The disease is to be treated by bleeding, general and local, the warm bath, or fomentations to the loins, emollient clyster, mucilaginous drinks, and the general antiphlogistic plan. The bowels should be effectually cleared at first by some sufficiently active formula; but the saline cathestics are considered at first by the saline cathartics are considered not so proper, as they may add to the irritation of the kidney. Calomel with antimonial powder, followed by the infusion of senna, or the ol ricini, may be given in preference, and repeated occasionally. It will be right also to endeavour to promote diaphoresis, by moderate doses of antimopials capacity. Ristore ago insulprissibilities of timonials especially. Blisters are inadmissible in this disease; but the liminentum ammoniæ, or other rubefacient application, may in some measure supply their place. Opium will often prove useful, particularly where the symptoms appear to originate from calculi, where the symptoms appear to originate from calculi, given in the form of clyster, or by the mouth; in which latter mode of using it, however, it will be much better joined with other remedies, which may obviate its heating effect, and determine it rather to pass of by the skin. A descrition of the dried leaves of the neating enect, and determine it rather to pass of by the skin. A decoction of the dried leaves of the peach tree is said to have been serviceable in many cases of this disease. In affections of a more chronic nature where there is a discharge of mucus or pus, by uring

moderate doses, or some of the terebinthinate remedies

moderate doses, or some of the terebinthinate remedies may be given with probability of relief.

NEPHROS. (From νεω, to flow, and φερω, to bear; as conveying the urinary fluid.) The kidney. See Kidney.

NEPHROTOMY. (Nephrotomia; from νεφρος, a kidney, and τεμνο, to cut.) The operation of extracting a stone from the kidney. A proceeding which, nechans, has never been actually until in practice. The perhaps, has never been actually put in practice. The cutting into the kidney, the deep situation of this vis-cus, and the want of symptoms by which the lodg-ment of a stone in it can be certainly discovered, will

always be strong objections to the practice.

NE RUM. (From 1996, humid: so called because it grows in moist places.) The name of a genus of plants in the Linnean system. Class, Pentandria;

Order, Monogymu.

The systematic NERIUM ANTIDYSENTERICUM. NERIUM ANTIDYSENTERICUM. THE SYSTEMAN name of the tree which affords the Codaga pala bark. Conessi cortex; Codaga pala; Cortex Bela-aye; Cor-tex proflucii. The bark of the Nerium;—folits ova-tis, acuminatis, petiolatis, of Linneus. It grows on tis, ocuminatis, petiolatis, of Linnaus. It grows on the coast of Malabar. It is of a dark black colour ex-ternally, and generally covered with a white moss, or fourf. It is very little known in the shops; has an austere, bitter tasle; and is recommended in diarrhozas, dysenteries, &c. as an adstringent.
NERIUM TINCTORIUM. This tree grows in Hindos-

NERIUM TINCTORIUM. This tree grows in Hindostan, and, according to Dr. Roxburg, affords indigo.

NE'ROLI OLEUM. Essential oil of orange flowers.

See Citrus aurantium.

(From nervus, a nerve.) NERVA'LLI OSSA. bones through which the nerves pass.

NERVE. (Nervus, i. m. from νεύρον.)

A. In anatomy. Formerly it meant a sinew.
This accounts for the opposite meanings of the word nervous, which sometimes means strong, sinewy, and sometimes weak and irritable. Nerves are long, white, meduliary cords, that serve for sensation. They ori-ginate from the brain and spinal marrow; hence they are distinguished into cerebral and spinal nerves, and distributed upon the organs of sense, the viscera, vessels, muscles, and every part that is endowed with mensibility. The cerebral nerves are the olfactory, optic, motores oculorum, pathetici, or trochleatores, trigemini, or divisa, abducent, auditory, or acoustic, par vagum, and lingual. Heister has drawn up the use of these nerves in the two following verses:

Olfaciens, cernens, oculosque movens, patiensque Gustans, abducens, audiensque, vagansque,

The spinal nerves are thirty pairs, and are divided into eight pair of cervical, twelve pair of dorsal, five pair of lumbar, and five of sacral nerves. In the course of the nerves there are a number of knots: these are called ganglions; they are commonly of an oblong shape, and of a grayish colour, somewhat in-clining to red, which is perhaps owing to their being extremely vascular. Some writers have considered these little ganglions as so many little brains. cisi fancied he had discovered muscular fibres in them; but they certainly are not of an irritable nature. late writer (Dr. Johnson) imagines they are intended to deprive us of the power of the will over certain parts, as the heart, for instance; but if this hypothesis were well founded, they should be met with only in nerves leading to involuntary muscles; whereas it is certain that the voluntary inuscles receive nerves through ganglions. Dr. Monroe, from observing the accurate intermixture of the minute nerves which compose them, considers them as new sources of ner-vous energy. The nerves, like the blood-vessels, in vous energy. their course through the body, communicate with each other, and each of these communications constitutes what is called a plerus, from whence branches are again detached to different parts of the body. The use of the nerves is to convey impressions to the brain from all parts of the system, and the principles of motion and sensibility from the brain to every part of the system. The manner in which this operation is effected is not yet determined. The inquiry has been a constant source of hypothesis in all ages, and has produced some ingenious ideas, and many erroneous positions, but without having hitherto afforded much satisfactory information. Some physiologists have considered a trunk of nerves as a solid cord, capable

in addition to suitable tonic medicines, the uva ursi in t of being divided into an infinite number of flaments, by means of which the impressions of feeling are conveyed to the common sensorium. Others have supveyed to the collision return to the posed each fibril to be a canal, carrying a volatile fluid, posed each fibril to be a canal, carrying a volatile fluid, posed each more to be a causa, carrying a volatile fluid, which they term the nervous Ruid. Phose who contend for their being solid bodies, are of opinion that feeling is occasioned by vibration; so that, for instance, according to this hypothesis, by pricking the finger, a vibration would be occasioned in the nerve described improving the substance. distributed through its substance; and the effects of this vibration, when extended to the sensorium, would be an excital of pain; but the inelasticity, the soft-ness, the connexion, and the situation of the nerves, are so many proofs that vibration has no share in the cause of feeling.

## A Table of the Nerves.

CEREBRAL NERVES.

The first pair, called offactory.
The second pair, or optic nerves.
The third pair, or oculorum motores.

The fourth pair, or pathetics.

The fifth pair, or trigemini, which gives off,
The ophthalmic, or orbital nerve, which sends,
I. A branch to unite with one from the sixth
pair, and form the great intercostal nerve.

2. The frontal nerve.
3. The lackrymal.

The nasal.

The superior maxillary, which divides into,

1. The spheno-palatine nerve.

2. The posterior alveolar.

The infra orbital.

The inferior maxillary nerve, from which arise,

1. The internal bingual.

2. The inferior maxillary, properly so called.

The sixth pair, or abducentes, which send off,
A branch to unite with one from the fifth, and

form the great intercostal. 7. The seventh pair, or auditory nerves: these arise by two separate beginnings, viz.

The portio dura, a nerve going to the face.

The portio mollis, which is distributed on the

The portio dura, or facial nerve, gives off the chorda tympani, and then proceeds to the face. 8. The eighth pair, or par vagum, arise from the medula obiongata, and join with the accessory of Willis. The par vagum gives off,

1. The right and left recurrent areve.

2. Several branches in the chest, to form the cardiac plexus.

3. Several branches to form the pulmonic plexus:
4. Several branches to form the asophageal

5. It then forms in the abdomen the stomachic

plexus.

6. The hepatic plexus.

7. The splenit plexus.

8. The renal plexus, receiving several branches from the great intercostal, which assists in their formation.

9. The ninth pair, or lingual nerves, which go from the medulla oblongata to the tongue.

SPINAL NERVES.

Those nerves are called spinal, which pass out through the lateral or intervertebral foramina of the

They are divided into cervical, dorsal, lumbar, and sacral nerves.

CERVICAL NERVES.

The crivical nerves are eight pairs.

The first are called the accipital: they arise from the beginning of the spinal marrow, pass out between the margin of the occipital foramen and atlas, form a light of the control of the contro ganglion on its transverse process, and are distributed about the occiput and neck.

The second pair of cervical nerves send a branch to the accessory nerve of Willis, and proceed to the parotid gland and external ear.

The third cervical pair supply the integuments of the scapula, the cucullaris, and triangularis muscles, and send a branch to form, with others, the diaphrag-

The fourth, fifth, sixth, seventh, and eighth pair, all converge to form the brachial plexus, from which arise the six following

NERVES OF THE UPPER EXTREMITIES.

1. The axillary nerve, which sometimes arises from the radial nerve. the radial nerve. It runs backwards and outwards around the neck of the humerus, and ramifies in the muscles of the scapula.

2. The external cutaneal, which perforates the caraco-brachialis muscle, to the bend of the arm, where it accompanies the median vein as far as the thumb,

and is lost in its integuments.

3. The internal cutaneal, which descends on the inside of the arm, where it bifurcates. From the bend of the arm the anterior branch accompanies the ba-silic vein, to be inserted into the skin of the palm of the hand; the posterior branch runs down the internal part of the forearm, to vanish in the skin of the little finger

4. The median nerve, which accompanies the brachial artery to the cubit, then passes between the brachialis internus, pronator cotundus, and the perforatus and perforans, under the ligament of the wrist to the palm of the hand, where it sends off branches in every direction to the muscles of the hand, and then supplies

the digital nerves, which go to the extremities of the thumb, fore, and middle fingers.

5. The ulnar nerve, which descends between the brachial artery and basilic vein, between the internal condyle of the humerus, and the olecranon, and divides in the forearm into an internal and external branch. The former passes over the ligament of the wrist and sesamoid bone, to the hand, where it divides into three branches, two of which go to the ring and little finger, and the third forms an arch towards the thumb, in the palm of the hand, and is lost in the con-tiguous muscles. The latter passes over the tendon of the extensor carpi ulnaris and back of the hand, to

supply also the two last fingers.

6. The radial nerve which sometimes gives off the axillary nerve. It passes backwards, about the os humeri, descends on the outside of the arm, between brachialis externus and internus muscles to the cubit: then proceeds between the supinator longus and brevis, to the superior extremity of the radius, giving off various branches to adjacent muscles. At this place it divides into two branches; one goes along the radius, between the supinator longus and radialis internus to the back of the hand, and terminates in the Interosseous muscles, the thumb and first three fingers; the other passes between the supinator brevis and head of the radius, and is lost in the muscles of the fore-arm.

DORSAL NERVES.

The Dorsal nerves are twelve pairs in number. The first pair gives off a branch to the brachial plexus. All the dorsal nerves are distributed to the muscles of the back, intercostals, serrati, pectoral, abdominal mus-cles, and diaphragm. The five interior pairs go to the cartilages of the ribs, and are called costal.

LUMBAR NERVES.

The five pairs of Lumbar nerves are bestowed about the loins and muscles, skin of the abdomen and loins, scrotum, ovaria, and diaphragm. The second, third, and fifth pairs unite and form the obturator nerve, which descends over the psoas muscle into the pelvis, and passes through the foramen thyroideum to the ob-

turator muscle, triceps, pectineus, &c.

The third and fourth, with some branches of the second pair, form the crural norve, which passes under Poupart's ligament with the femoral artery, sends off branches to the adjacent parts, and descends in the di-rection of the sartorius muscle to the internal condyle of the femur, from whence it accompanies the saphena vein to the internal ankle, to be lest in the skin of the great toe.

The fifth pair is joined to the first pair of the sacral

SACRAL NERVES.

There are five pairs of sacral nerves, all of which arise from the cauda equina, or termination of the medulla spinalis, so called from the nerves resembling the tail of a horse. The first four pairs give off branches to the pelvic viscera, and are afterward united to the

to the peivic viscera, and are afterward united to the last lumbar, to form a large plexus, which gives off The ischiatic nerve, the largest in the body. The ischiatic nerve, immediately at its origin, sends off branches to the bladder, rectum, and parts of generation; proceeds from the cavity of the pelvis through the ischiatic notch, between the tuberosity of the ischiam and uses the bladder to the beautiful temperature.

popliteal nerve. In the ham it divides into two branches.

1. The peroneal, which descends on the fibula, and distributes many branches to the muscles of the leg and

back of the foot.

back of the foot.

2. The tibial, which penetrates the gastrocnemis muscles to the internal ankle, passes through a notch in the os calcis to the sole of the foot, where it divides into an internal and external plantar nerve, which supply the muscles and aponeurosis of the foot and the

Physiology of the Nervous system.

The nervous system, as the organ of sense and motion, is connected with so many functions of the animal economy, that the study of it must be of the utmost importance, and a fundamental part of the study of the whole economy. The nervous system consists of the medullary substance of the brain, cerebellum, medulla oblongata, and spinalis; and of the same substance continued into the nerves by which it is distributed to many different parts of the body. The whole of this system seems to be properly distinguished into these four parts.

1. The medullary substance contained in the cranium

and vertebral cavity; the whole of which seems to consist of distinct fibres, but without the smaller fibres being separated from each other by any evident enve-

loping membranes

2. Connected with one part or other of this substance 2. Connected with one part of other of this substance are, the nerves, in which the same medullary substance is continued; but here more evidently divided into fibres, each of which is separated from the others by an enveloping membrane, derived from the pia mater.

3. Parts of the extremities of certain nerves, in which the medullary substance is divested of the emergency of the continued of t

veloping membranes from the pia mater, and so situated as to be exposed to the action of certain external bodies, and perhaps so framed as to be affected by the action of certain bodies only; these are named the sention extremities of the nerves.

4. Certain extremities of the nerves, so framed as to be capable of a peculiar contractility; and, in consequence of their situations and attachments to be, by their contraction, capable of moving most of the solid and fluid parts of the body. These are named the moving ex-

tremities of the nerves.

These several parts of the nervous system are every where the same continuous medullary substance, which is supposed to be the vital solid of animals, so constituted in living animals, and in living systems only, as to admit of motions being readily propagated from any one part to every other part of the nervous system, so long as the continuity and naturally living state of the medullary substance remains. In the living man there is an immaterial thinking substance, or mind, constantly present, and every phenomenon of thinking is to be considered as an affection or faculty of the mind alone. But this immaterial and thinking part of man is so connected with the material and corporeal part of him, and particularly with the nervous system, that motions excited in this give occasion to thought, and thought, however occasioned, gives occasion to new motions in the nervous system. This mutual communication, or the nervous system. This mutual communication, or influence, is assumed with confidence as a fact: but the mode of it we do not understand, nor pretend to ex-plain; and therefore are not bound to obviate the difficulties that attend any of the suppositions which have been made concerning it. The phenomena of the pervous system appear commonly in the following order:
The impulse of external bodies acts upon the sentient extremities of the nerves; and this gives occasion to perception or thought, which, as first arising in the mind, is termed eensation. This sensation, according to its various modifications, gives occasion to obtained by the motion of certain parts of the body; and this volition gives occasion to the contraction of muscular fibres, by which the motion of the part required is produced. the impulse of bodies on the sentient extremities of a nerve does not occasion any sensation, unless the nerve between the sentient extremity and the brain be free; and as, in like manner, violition does not produce any contraction of muscles, unless the nerve between the brain and muscle be also free; it is concluded from both these facts that sensation and volition, so far as they are connected with corporeal motions, are func tions of the brain alone; and it is presumed that sensaand great trechanter, to the ham, where it is called the tion arises only in consequence of external impulse

producing motion in the sentient extremities of the | Upon making a ligature upon a nerve, the motion of nerves, and of that motion being thence propagated along the nerves of the brain; and, in like manner, that the will operating in the brain only, by a motion begun there, and propagated along the nerves, produces the contraction of inuscles. From what is now said, we perceive more distinctly the different functions of the several parts of the nervous system. 1. The sentient extremities seem to be particularly fitted to receive the impressions of external bodies; and according to the difference of these impressions, and of the condition of the sentient extremity itself, to propagate along the nerves motions of a determined kind, which communervee motions of a determined kind, which commu-nicated to the brain, give occasion to sensation. 2. The brain seems to be a part fitted for, and susceptible of, those motions with which sensation, and the whole consequent operations of thought, are connected: and thereby is fitted to form a communication between the motions excited in the sentient, and those in consequence arising in the moving extremities of the nerves. which are often remote and distant from each other. 3. The moving extremities are so framed as to be ca pable of contraction, and of having this contraction excited by motion propagated from the brain, and communicated to the contractile fibre. 4. The nerves, more strictly so called, are to be considered as a collection of medullary fibres, each enveloped in its proper membrane, and thereby so separated from every other, as hardly to admit of any communication of motion from any one to the others, and to admit only of motion along the continuous medulary substance of the same fibre, from its origin to the extremities, or contrarywise. From this view of the parts of the nervous system, of their several functions and communication with each other, it appears that the beginning of motion in the animal economy is generally connected with sensation and that the ultimate effects of such motion are chiefly actions depending immediately upon the contraction of moving fibres, between which and the sentient extremities, the communication is by means of the brain. · B. In botany: the term nerve is applied to a cluster of vessels that runs like a rib or chord on certain leaves; as that of the Laurus cinnamomum, and Archumlappa.
Ne'rea spongiosa. The cavernous part of the

(Nervinus; from nervus, That which relieves disorders of the nerves Neurotic. All the antispasmodics, and the various preparations

of bark and iron NERVO RUM RESOLUTIO. Apoplexy and palsy have

been so considered.
NERVOSUS. Nervous. 1. Applied, in medicine, to fevers and affections of the nervous system 2. In anatomy: to the structure of parts being com-

posed of, or resembling a nerve

3. In botany: to leaves which have nervelike cords. NERVOSUM OS. The occipital bone.

NERVOUS. See Nervosus. Nervous consumption. See Atrophia. Nervous diseases. See Neuroscs.

See Februs nervosa Nervous fever.

Nervous fever. See Febris nervosa.
Nervous sheadache. See Cephshaldzia.
NERVOUS FLUID. Nervous principle. The vascularity of the cortical part of the brain, and of the nerves themselves, their softness, publiness, and natural humid appearance, give reason to believe that between the medullary particles of which they are principally composed, a fine fluid is constantly secreted which may be fitted to receive and transmit, even more readily than other fluids do, all impressions which are made on it. It appears to exhale from the extre-mities of the nerves. The lassitude and debility of muscles from too great exercise, and the dulness of the sensorial organs from excessive use, would seem to sensorial organs from excessive use, would seem to sensorial organs from excessive use, would seem to sensorial organs and inodorous. Nor has it any colour, for the cerebrum and nerves are white. so subtile a consistence, as never to have been detected Its mobility is stupendous, for in less than a moment, with the consent of the mind, it is conveyed from the cerebrum to the muscles, like the electric matter. Whether the nervous fluid be carried from the organ of sense in the sensorial nerves to the cerebrum, and from thence in the motory nerves to the muscles, cannot be positively affirmed. The constituent principles of this liquid are perfectly unknown, as they cannot be rendered visible by art, or proved by experiment.

the fluid is interrupted, which proves that something corporeal flows through it. It is therefore a weak ar-gument to deny its existence because we cannot see it. for who has seen the matter of heat, oxygen, azote, and other elementary bodies, the existence of which, no physician in the present day double? The deteric matter, whose action on the nerves is very great, does not appear to constitute the nervous fluid; for nerves which is one with the constitute the nervous fluid; for nerves which is not wise of general means absorbed to when the constitute of the nervous fluid; exhibit no signs of spontaneous electricity; nor can it be the magnetic matter, as the experiment of Gavian with the magnet demonstrates: nor is it ozygen, nor hydrogen, nor azote; for the first very much irritates the nerves, and the other two suspend their action. The nervous fluid, therefore, is an element sui generis, which exists and is produced in the nerves only: hence, like other elements, it is only to be known by its ef-The pulpous softness of some nerves, and their lax situation, does not allow them and the brain to act on the body and soul only by oscillation. Lastly, a tense chord, although tied, oscillates. The use of the nervous fluid is, 1. It appears to be an intermediate substance between the body and the soul, by means of which the latter thinks, perceives, and moves the mus-cles subservient to the will. Hence, the body acts upon the soul, and the soul upon the body. 2. It ap pears to differ from the vital principle; for parts live and are irritable which want nerves, as bones, tendons plants, and insects.

Nervous principle. See Nervous fluid. NE STIS. (From 177, neg. and εσθιω, to eat; so called because it is generally found empty.) The jejunum.

NETTLE. See Urtica. Nettle, dead. See Unium album. Nettle-rash. See Urticaria.

NEURALGIA. (From 1 supov, a nerve, and alyos,

pain.) 1. A pain in a nerve.
2. The name of a genus of diseases, in Good's Nosology. Class, Neurotica: Orner, Assactes, ache. It has three species, Neuralgia faciei, pedis,

Maume. Neurochendro'des. (From γευρου, a sinew. χονζοος, a cartilage, and ειδος, resemblance.) A hard substance between a sinew and a cartilage. NEUROLOGY. (Neurologia; from γευρου, a nerve, and λογος, a discourse.) The doctrine of the nerves.

MEUROLUCE (Neurologia, from νυρον, a nerve, and λορος, a discourse.) The doctrine of the nerves. Neurome torks. (From νευρον, a nerve, and μητρα, a matrix.) The psoas muscles are so called by Fallopius, as being the repository of many small nerves. NEURO'SES. (The plural of neurosis; from γυρουσικό μεταλουσικό μεταλ

Fallopins, as being the repository of many small or NEURO'SES. (The plural of neurosis; from veryors, a nerve.) Nervous diseases. The second class of Cullen's Nosology is so called; it comprehends affections of sense and motion disturbed; without either idiopathic pyrexia, or topical diseases.

NEUROTICA. (From recopt, a nerve.) The name of a class of diseases in Good's Nosology. Diseases of the nervous system. It comprehends four orders, viz. Phrenica; Estatetica; Cinetica; Systatica.

Neuropirica. (From recopt, a nerve.) Nervous

NEURO TICA. (From vevoov, a nerve.) Nervous

medicines NEURO TOMY. (Neurotomia; from νευρον, a nerve, and τεμγω, to cut.) 1. A dissection of the

2. A puncture of a nerve. NEUTRAL. A term ap A term applied to saline compounds of an acid and an alkali, which are so called, because they do not possess the characters of acid or alkaline

sales: such are Epsom salts, nitre, and all the com-pounds of the alkalies with the acids. NEUTRALIZATION. When acid and alkaline matter are combined in such proportions, that the compound does not change the colour of litmus or violets,

they are said to be neutralized.

NE'XUS. (From necto, to wind.) A complication of substances in one part, as the membrane which in-

volves the fætu

NICHOLS, FRANK, was born in London, where his father was a barrister, in 1699. After passing through the usual academical exercises at Oxford with great assiduity, he chose medicine for his profession; and pursued a course of dissections with so much diligence pursued a course of dissections with so much original and perseverance, as to render himself highly skifful in this branch of his art. Hence he was chosen reader of anatomy in the university, where he used his utmost endeavours to introduce a zeal for this pursuit, and obtained a high reputation. At the close of his course he made a short trial of practice in Cornwall, and sub-

NIG

sequently paid a visit to the principal schools of France; On his return he resumed his anatomical and physiological lectures in London, which were frequented, not only by students from the universities. but also by many surgeons, apothecaries, and others. In 1728 he was chosen a fellow of the Royal Society, to which he communicated several papers; and shortly after he received his doctor's degree at Oxford, and became a fellow of the College of Physicians. In 1734. he was appointed to read the Gulstonian lectures, and chose the Heart and Circulation, for his subjects. In 1743, he married one of the daughters of the celebrated Dr. Mead. About five years after he was appointed lecturer on surgery to the college, and began his course with a learned and elegant dissertation on the "Anima Medica," which was afterward published. On the Medica," which was afterward published. On the death of Sir Hans Sloane in 1753, Dr. Nichols was appointed his successor as one of the King's physicians which office he held till the death of his Majesty, seven years after. To a second edition of the treatise, "De Anima Medica," in 1772, he added a dissertation, "De Motu Cordis et Sanguinis in Homine nato et non nato.' Weary at length with his profession, and wishing to superintend the education of his son at Oxford, he removed to that city: and when the study of the law recalled his son to London, the Doctor took a house at Epson, where he passed the remainder of his life in literary retinement. He died in 1778.

Nickel leaf. See Emarginatus.

NICKEL. A metal discovered by Cronstedt in 1751.

though the substance from which he extracted it was known in the year 1694. Nickel is found in nature generally in the metallic state, more rarely in that of an oxide. Its ores have a coppery-red colour, generally covered more or less with a greenish-gray ethorescence. The most abundant ore is that termed sulphuret of nickel, or kupfernickel, which is a compound of nickel, arsenic, sulphuret of iron, and sometimes cobalt and copper. This ore occurs either massive, or disseminated, but never crystallized; it is of a copper colour, nated, but never crystamere, it is on a copper colour, sometimes yellowish, white, or gray. It exists also combined with oxygen, and a little carbonic acid, in what is called nature orated of metal (whitel others), it then has an earthy appearance, and is very finable; it is found coating kupjernickel, and seems to originate from the decomposition of this ore. It is found contaminated with iron in the mineral substance called martial nickel; this native combination, when fresh

air, it soon turns black, and sometimes exhibits thin rhomboidal plates placed irregularly over each other. It is also found united to arsenic, cobalt, and alumine

in the one, called arsemute of needel.

Nickel is a metal of great hardness, of a uniform texture, and of a colour between silver and tin; very difficult to be purified, and magnetical. It even acquires polarity by the touch. It is malicable, both cold and redhot; and is scarcely more fusible than manga-Its oxides, when pure, are reducible by a sufficent heat without combustible matter; and it is little more tarnished by heating in contact with air, than platina, gold, and silver. Its specific gravity, when cast, is \$2.79; when torged, \$.666.

Nickel is commonly obtained from its sulphuret, the

broken, has a lamellated texture; when exposed to the

kupfernickel of the Germans, in which it is generally mixed also with assenic, iron, and cobalt. This is first roasted, to drive off the sulphur and assenic, then mixed with two parts of black flux, put into a crucible, covered with muriate of soda, and heated in a forge furnace. The metal thus obtained, which is still very impure, must be dissolved in dilute nitric acid, and then evaporated to dryness; and after this process has been repeated three or four times, the residuum must be dissolved in a solution of ammonia, perfectly free from carbonic acid. Being again evaporated to dryness, it is now to be well maxed with two or three parts of black flux, and exposed to a violent heat in a crucible for half an hour or more

There are two oxides of nickel; the dark ash-gray. and the black. If potassa be added to the solution of the nitrate or sulphate, and the precipitate dried, we obtain the protoxide. The peroxide was formed by Theuard, by passing chlorine through the protoxide diffused in water. A black insoluble peroxide remains

at the bottom.

Little is known of the chloride, jodide, sulphuret, or phosphuret of this metal.

The salts of nickel possess the following general characters. They have usually a green colour, and yield a white precipitate with ferroprussiate of potassa Ammonia dissolves the oxide of nickel. Sulphuretted hydrogen and infusion of galls occasion no precipitate. The hydrosulphuret of potassa throws down a black precipitate. Their composition has been very imper-

feetly ascertained.

Nico phorus. (From pury, victory, and pepu, to bear: so called because victors were crowned with it.) A kind of ivy

(From Nicott, who first brought it NICOTIA'NA. Tobacco.

into Europe.) 1. The name of a genus of plants in the Linnæan system. Class, Pentandria; Order, Monogunia.

2. The former pharmacopæial name of the tobacco. See Nicotiana tabacum.

NICOTIANA AMERICANA. American or Virginian tobacco. See Nicotiana tabacum.

NICOTIANA MINOR. See Nicotiana rustica.

NICOTIANA RUSTICA. The systematic name of the English tobacco. Nicotiana minor; Priapeia; Hy-oscyamus luteus. This plant is much weaker than the Originian tobacco, the leaves are chiefly used to smoke vermin, though they promise, from their more gentle operation, to be a safer remedy in some cases than the

The systematic name of the NICOTIANA TARACUM. Virginian tobacco plant. Perum, by the Indians: Ta-bacum; Hyoscyamus peruvianus; Picelt. Nicotiana -folies lanceolato-ovatis sessilibus decurrentibus florentibus acutis, of Linnaus, is the plant employed medicinally. It is a very active narcotic and sternutatory. A decoction of the leaves is much esteemed in some diseases of the skin, and is by some said to be a specific against the itch. The fumes and the decoca specific against the itch. The fumes and the decoction are employed in obstinate constipations of the bowels, and very frequently with success; it is necessary, however, to caution the practitioner against an effect mostly produced by its exhibition, namely, syncope, with cold sweats; and, in some instances, death. Vauquelin has obtained a peculiar punciple from this plant, in which its active properties reside. See Ni-

A peculiar principle obtained by Van-NICOTIN. quelin, from tobacco. It is colourless, and has the pe-culiar taste and smell of the plant. It dissolves both in water and alkohol: it is volatile and poisonous.

"Evaporate the expressed juice to one-fourth its bulk; and, when cold, strain it through fine linen; evaporate nearly to dryness; digest the residue in al-kohol, filter and evaporate to dryness; dissolve this again in alkohol, and again reduce it to a dry state. Dissolve the residue in water, saturate the acid which it contains with weak solution of potassa, introduce the whole into a retort, and distil to dryness, redissolve, and again dissolve three or four times successively. The nicotin will thus pass into the receiver, dissolved in water, from which solution it may be obtained by very gradual evaporation."- Webs. Man. of Chem. A., NICTITATIO. Twinkling, or winking of the

NIDULANS. NIDULANS. (From nidulor, to place in a nest.) Nidulate: applied to the seeds of some fruits, which are imbedded on their surface; as those of the straw-

NIGE'LLA. (Quasi nigrella; from niger, black;

1. The name of a genus of plants in the Linnean system. Class, Polyandria; Order, Pentagynia.
2. The pharmacoperal name of the plant called devil-in-a-bush, or fennel-flower.

MIGELLA OFFICINARUM. See Agrostemma githago. NIGELLA SATIVA. The systematic name of the devil in-a-bush. Fennel-flower. Melanthium: Melaspermum. It was formerly employed medicinally as an expectorant and deobstruent, but is now fallen into

NIGELLA'STRUM. (From nigella, fennel flower.)

NIGERLA STROM. Color in the strong of the st

NIGHT. Nox. maphys veger. XIGHT. Nox. Many diseases and plants have this for their trivial name, because of some peculiar circumstance connected with the period; as nightmare nightshade, &c.

Night blindness. See Nyctalopia.

Nightmare. See Onerrodynia gravans. NIGHTSHADE. See Solanum, Phytolacca, and

Atropa. Nightshade, American. See Phytolacea decandria. Nightshade, American. See Phylonica decam Nightshade, deadly. See Atropa belladonna. Nightshade, Palestine. See Solanum sanctum. Nightshade, woody. See Solanum dulcamara. Nightshade, Trees of titanium. Night Ties. (From niger, black.) A carie

Night Ties. (From night, black.) A caries is called night sossium, a blackness of the bone. Ni hitum about. Nichtaibum. A name formerly given to the flowers, or oxide of zinc.

NI'NZI RADIX. See Sium ninsi.

M'NZI RADIX. See Sium ninsi.

Ni'NZIN. See Sium ninsi.

NI'PPLE. Papilla. The small projecting proportion in the middle of the breasts of men and women. It is much larger in the latter, and has several openings in it, the excretory duets of the lacteal glands.

NIPPLE-WORT. See Lapsana.

NISUS FORMATIVUS. (Nisus, ús. m.) A crestive or formative effort.

ative or formative effort.

NITIDUS. Polished, smooth, shining: applied in botany to stems, &c.; as in the Charophyllum syl-Vestre. See Caulis.

NITRAS AMMONIE. See Ammonio nitras.
NITRAS ARGENTI. See Argenti nitras.
NITRAS POTASSE. See Nitric acid.
NITRAS POTASSE FUSICS. Nal princello; Nitrum tabulatum. This sait, usides the nitric acid and potabulatum acid. See Nitric acid. cauratum. This sail, nesides the intricated and potassa, contains a little sulphiric acid. See Nitricacid. Nutras some. Alkali minerale nitratum; Nitrum culticum. Its virtues ace similar to those of nitrate of potassa, for which it may be safely substituted.

NITRATE. (Nitras, atis, f.; from nitrum, nitre.) A salt formed by the union of the nitric acid, with salinable bases; as the nitrate of potassa, soda, silver, &c.

&cc.

Nitrate of potassa. See Nitric acid.

Nitrate of silver. See Argenti nitras.

NITRE. NiTrov. Nitrum: Potassw nitras: Saltgetra; Alawrat; Algali; Atac; Baurack; Acusto; Halinitrum. The common name for salipetre or the nitrate of potassa. A perfect neutral salt, formed by the union of the nitric acid with the vegetable alkali, thence called nitrate of potassa. Its taste is cooling, and it does not alter the colour of the syrup of violets.

Nitra exists in large quantities un the rath, and is com-Nitre exists in large quantities in the earth, and is continually formed in inhabited places; it is found in great quantities upon walls which are sheltered from the quantities upon wais which are sinelered from the rain. It is of great use in the arts; it is the principal ingredient in guopowder; and, burned with different proportions of taitar, forms the substances called fluxes. It is of considerable importance in medicine, as a febrifuge, diuretic, and antiphlogistic remedy, in doses of from five to twenty grains. See Nitrie

NITRIC ACID. Acidum nitricum. "The two principal constituent parts of our atmosphere, when în certain proportions, are capable, under particular circumstances, of combining chemically into one of the most powerful acids, the nitric. If these gases be mixed in a proper proportion in a glass tube about a line in a proper proportion in a glass tube about a line in diameter, over niercury, and a series of electric shocks be passed through them for some hours, they will form nitric acid; or, if a solution of potassa be present with them, nitrate of potassa will be obtained. The constitution of this acid may be further proved, analytically, by driving it through a red-hot resolution that are the second of t porcelain tube, as thus it will be decomposed into oxy gen and nitrogen gases. For all practical purposes, however, the nitric acid is obtained from nitrate of potassa, from which it is expelled by sulphuric acid.

Three parts of pure nitrate of potassa, coarsely powdered, are to be put into a glass retort, with two of strong sulphuric acid. This must be cautiously added, taking care to avoid the fumes that arise. retort a tubulated receiver of large capacity, with an adopter interposed, and lute the junctures with glazier's putty. In the tubulure fix a glass tube, terminating in another large receiver, in which is a small quantity of water; and if you wish to collect the gaseous products, let a bent glass tube from this receiver communicate with a pneumatic trough. Apply heat to the receiver by means of a sand bath. The first product that page into the receiver by means of a sand bath. that passes into the receiver is generally red and fuming; but the appearances gradually diminish, till the clay, and distilling in a reverberatory furnace. Two

acid comes over pale, and even colourless, if the malerials used were clean. After this it again becomes more and more red and funning, till the end of the operation; and the whole immigled together will be of a vellow or orange colour.

retion: and the whole replace to the velow or orange colour.

Empty the receiver, and again replace it. Then introduce by a small funnel, very cautiously, one part of boiling water in a slender stream, and continue the distillation. A small quantity of a weaker acid will thus be obtained, which can be kept apart. The first will have a specific gravity of about 1.500, if the heat have been properly regulated, and if the receiver was refrigerated by cold water or ice. Acid of that density, amounting to two-thirds of the weight of the intre, may thus be procured. But commonly the heat is pushed too high, whence more or less of the acid is decomposed, and its proportion of water uniting to the remainder, reduces its strength. It is not profitable to use a smaller proportion of sulphnic acid, when a concentrated mitric is required. But when only a diuse a smaller proportion or sulprime actor, when a concentrated nitric is required. But when only a di-lute acid, called in commerce aquafortis, is required, then less sulprime acid will suffice, provided a portion of water be added. One hundred parts of good nitre, sixty of strong sulprime acid, and twenty of water, from economical measurements. form economical proportions

In the large way, and for the purposes of the arts, extremely thick cast iron or earthen retorts are employ ed, to which an earthen head is adapted, and connected with a range of proper condensers. The strength of the acid too is varied, by putting more or less water in the receivers. The nitric acid thus made generally contains sulphuric acid, and also muritatic, from the impurity of the nitrate employed. If the former, a solution of nitrate of barytes will occasion a white precipitate; if the latter, nitrate of silver will render it milky. The sulphuric acid may be separated by a second distillation from very pure nitre, equal in weight to an eighth of that originally employed; or by precipitating with nitrate of barytes, decanting the clear liquid, and distillation in the same way with nitrate of silver, or with lithauge, decanting the clear liquid, and redistilling it, leaving an eighth or tenth part in the ed, to which an earthen head is adapted, and connected with a range of proper condensers. The strength on silver, or with intage, accanting the clear riquid, and redistilling it, leaving an eighth or tenth part in the retort. The acid for the last process should be condensed as much as possible, and the redistillation conducted very slowly; and if it be stopped when half is come over, beautiful crystals of muriate of lead will be obtained on cooling the remainder, if litharge be used, as Steinacher informs us; who also adds, that the vessel should be made to fit tight by grinding, as

the vessel should be made to fit tight by grinding, as any lute is liable to contaminate the product.

As this acid still holds in solution more or less nitrous gas, it is not in fact nitric acid, but a kind of nitrous. It is, therefore, necessary to put it into a rectort, to which a receiver is added, the two vessels not being luted, and to apply a very gentle heat for several hours, changing the receiver as soon as it is filled with red vapours. The nitrous gas will thus be expelled, and the nitric acid will remain in the retort as limpid and colourless as water. It should be kept in a bottle and secluded from the light, otherwise it will lose part and secluded from the light, otherwise it will lose part

its oxygen.

What remains in the retort is a bisulphate of potassa, from which the superfluous acid may be expelled by a pretty strong heat, and the residuum, being dis-solved and crystallized, will be sulphate of potassa.

As nitric acid in a fluid state is always mixed with water, different attempts have been made to ascertain its strength, or the quantity of real acid contained

The nitric acid is of considerable use in the arts. It is employed for etching on copper; as a solvent of tin to form with that metal a mordant for some of the tin to form with that metal a mortant for some of the finest dyes; in metallurgy and assaying; in various chemical processes, on account of the facility with which it parts with oxygen, and dissolves metals; in medicine as a tonic, and as a substitute for mercurial preparations in syphilis and affections of the liver, as also in form of vapour to destroy contagion. purposes of the arts it is commonly used in a diluted state, and contaminated with the sulphuric and muristate, and comainmated with the suppoure and murratic acids, by the name of oquafortis. This is generally prepared by mixing common nitre with an equal weight of sulphate of iron, and half its weight of the same sulphate calcined, and distilling the mixture; or by mixing nitre with twice its weight of dry powdered

kinds are found in the shops, one called double aquafortis, which is about half the strength of nitric acid; the other simply aquafortis, which is half the strength of the double

A compound made by mixing two parts of the nitric acid with one of muriatic, known formerly by the name of aqua regia, and now by that of nitro-muriatic acid, has the property of dissolving gold and platina. On mixing the two acids, heat is given out, an efference takes place, and the mixture acquires an orange colour. This is likewise made by adding gradually to an ounce of powdered muriate of ammonia four ounces of double aquafortis, and keeping the mixture in a sand heat till the salt is dissolved; taking care to avoid the fumes, as the vessel must be left open; or by distilling nitric acid with an equal weight, or rather more, of common salt.

On this subject we are indebted to Sir H. Davy for some excellent observations, published by him in the first volume of the Journal of Science. If strong uitrous acid, saturated with nitrous gas, be mixed with a saturated solution of muriatic acid gas, no other effect is produced than might be expected from the action of nitrous acid of the same strength on an equal quantity of water; and the mixed acid so formed has no power of action on gold or piatina. Again, if muriatic acid gas, and nitrous gas, in equal volumes, be mixed together over mercury, and half a volume of oxygen be added, the immediate condensation will be no more than might be expected from the formation of nitrous acid gas. And when this is decomposed, or absorbed by the mercury, the muriatic acid gas is found unaltered, mixed with a certain portion of nitrous gas.

It appears then that nitrous acid, and muriatic acid gas, have no chemical action on each other. If colourless nitric acid and muriatic acid of commerce be mixed together, the mixture immediately becomes yellow, and gains the power of dissolving gold and plati-num. If it be gently heated, pure chlorine arises from it, and the colour becomes deeper. If the heat be tous acid gas. When the process has been very long trous acid gas. When the process has been ver continued till the colour becomes very deep, no chlorine can be procured, and it loses its power of acting upon platinum and gold. It is now nitrous and muriatic acids. It appears then from these observations, which have been very often repeated, that nitromuriatic acid owes its peculiar properties to a mutual decomposition of the nitric and muriatic acids; and that water, chlorine, and nitrous acid gas, are the results. Though nitrous gas and chlorine have no action on each other when perfectly dry, yet if water be present, there is an immediate decomposition, and nitrous acid and muriatic acid are formed. 118 parts of strong liquid nitric acid being decomposed in this case. yield 67 of chlorine. Aqua regia does not oxidise gold and platina. It merely causes their combination with

A bath made of nitro-muriatic acid, diluted so much as to taste no sourer than vinegar, or of such a strength as to prick the skin a little, after being exposed to it for twenty minutes or half an hour, has been introduced by Dr. Scott of Bombay as a remedy in chronic syphilis, a variety of ulcers and diseases of the skin, chronic hepatitis, bihous dispositions, general debility, and lan-guor. He considers every trial as quite inconclusive where a ptyalism, some affection of the gums, or some very evident constitutional effect, has not arisen from it. The internal use of the same acid has been recom-mended to be conjoined with that of the partial or ge-

neral bath.

With the different bases the nitric acid forms nitrates.

The nitrate of barytes, when perfectly pure, is in regular octahedral crystals, though it is sometimes ob-

tained in small shining scales

The nitrate of potassa is the salt well known by the name of nitre or salt petre. It is found ready formed in the East Indies, in Spain, in the kingdom of Naples, and elsewhere, in considerable quantities; but nitraie of lime is still more abundant. Far the greater part of the nitrate made use of is produced by a combination of circumstances which tend to compose and condense nitric acid. This acid appears to be produced in all situations where animal matters are completely decomposed with access of air, and of proper substances with which it can readily combine. Grounds fre-

quently trodden by cattle, and impregnated with their excrements, or the walls of inhabited places, where putrid animal vapours abound, such as slaughter-hou drains, or the like, afford nitre by long exposure to the air. Artificial nitre beds are made by an attention to the circumstances in which this salt is produced by nature. Dry ditches are dug, and covered with sheds, open at the side, to keep off the rain. These are filled with animal substances, such as dung, or other excrements, with the remains of vegetables, and old mortar, found to be the best and most convenient receptacle for the acid to combine with. Occasional watering, and turning up from time to time, are necessary to accelerate the process, and increase the surfaces to which the air may apply; but too much moisture is hurtful. When a certain portion of nitrate is formed, the process appears to go on more quickly, but a certain quantity stops it altogether; and after this cessation, the materials will go on to furnish more, if what is formed be extracted by lixiviation. After a succession of many months, more or less, according to the management of the operation, in which the action of a renagement of the operation, in which the action of a re-gular current of fresh art is of the greatest importance, nitre is found in the mass. If the beds contained much vegetable matter, a considerable portion of the nitrous salt will be common sattpetre; but if otherwise, the acid will, for the most part, be combined with the calcareous earth. It consists of 6.75 acid + 6 potassa.

To extract the saltpetre from the mass of earthy

matter, a number of large casks are prepared, with a cock: (! the notion of each, and a quantity of straw within, to prevent its being stopped up. Into these the matter is put, together with wood-ashes, either strewed at top, or added during the filling. Boiling water is then poured on, and suffered to stand for some time; after which it is drawn off, and another water added in the same manner, as long as any saline matter can be thus extracted. The weak brine is heated, and passed through other tubs, until it becomes of consi-derable strength. It is then carried to the boiler, and contains nitre and other satts; the chief of which is common culinary salt, and sometimes muriate of mag-It is the property of nitre to be much more soluble in hot than cold water; but common salt is very nearly as soluble in cold as in hot water. Whenever, therefore, the evaporation is carried by boiling to a certain point, much of the common salt will fall to the bottom, for want of water to hold it in solution, though the nitre will remain suspended by virtue of the heat. The common salt thus separated is taken out with a perforated ladle, and a small quantity of the fluid is be cooled, from time to time, that its concentration may be known by the nitre which crystallizes in it. When the fluid is sufficiently evaporated, it is taken out and cooled, and a great part of the nitre separates in crystals; while the remaining common salt continues dissolved, because equally soluble in cold and in hot water. Subsequent evaporation of the residue will separate more intre in the same manner. By the sug-gestion of Lavoisier, a much simpler plan was adopted; reducing the crude nitre to powder, and washing it twice with water.

This nitre, which is called nitre of the first boiling, contains some common salt, from which it may be purified by solution in a small quantity of water, and subsequent evaporation; for the crystals thus obtained are much less contaminated with common salt than are much less contaminated with cominon salt than before; because the proportion of water is so much larger, with respect to the small quantity contained by the nitre, that very little of it will crystallize. For nice purposes, the solution and crystallization of nitre are repeated four times. The crystals of nitre are usually of the form of six-sided flattened prisms, with dihedral summits. Its taste is penetrating; but the cold produced by placing the salt to dissolve in the mouth, is such as to predominate over the real taste at first, Seven parts of water dissolve two of nitre, at the temperature of sixty degrees; but boiling water dissolves its own weight. 100 parts of alkohol, at a heat of 1760, dissoive only 29.

On being exposed to a gentle heat, nitre fuses; and in this state, being poured into moulds, so as to form little round cakes, or balls, it it called sal prunella, or crystal mineral. This at least is the way in which this sait is now usually prepared, conformably to the directions of Boerhaave, though in most dispensatories

a twenty-fourth part of sulphur was directed to be de-flagrated on the nitre before it was poured out. This sait should not be left on the fire after it has entered into fusion, otherwise it will be converted into a ni-ntrate of potassa. If the heat be increased to reduces, the acid itself is decomposed, and a considerable quan-tity of fotegably pure overgen are it. tity of tolerably pure oxygen gas is evolved, succeeded

thy of the substances. Two or three parts nixed with sample substances. Two or three parts nixed with one of charcoal, and set on fire, burn rapidly; azote and carbonic acid gas are given out, and a small portion of the latter is retained by the alkaline residuum which was formerly called clyssus of nitre. Three parts of nitre, two of subcarbonate of potassa, and one of sulphur, mixed together in a warm mortar, form the fulminating powder; a small quantity of which, laid on a fire shovel, and held over the fire till it begins to melt, explodes with a loud sharp noise. Mixed with sulphur and charcoal, it forms gunpowder.

Three parts of nitre, one of sulphur, and one of fine

saw-dust, well mixed, constitute what is called the powder of fusion. If a bit of base copper be folded up and covered with this powder in a walnut-shell, and the powder be set on fire with a lighted paper, it will detonate rapidly, and fuse the metal into a globule of

sulphuret without burning the shell.

Silex, alumina, and barytes, decompose this salt in a high temperature, by uniting with its base. The alumina will effect this even after it has been made into

The uses of nitre are various. Beside those already indicated, it enters into the composition of fluxes, and is extensively employed in metallurgy; it serves to promote the combustion of sulphur in fabricating its acid; it is used in the art of dying; it is added to common salt for preserving meat, to which it gives a red hue; it is an ingredient in some frigoritic mixtures; and it is prescribed in medicine, as cooling, febrifuge, and di-uretic; and some have recommended it mixed with

Vinegar as a very powerful remedy for the sea scurvy Nitrate of soda, formerly called cubic or quadran gular nitre, approaches in its properties to the nitrate of potassa; but differs from it in being somewhat more soluble in cold water, though less in hot, which takes up little more than its own weight; in being inclined to attract moisture from the atmosphere; and in crystallizing in rhombs, or rhomboidal prisms. It may be prepared by saturating soda with the nitric acid; by precipitating nitric solutions of the metals, or of the earths, except barytes, by soda; by lixiviating and crystallizing the residuum of common salt distilled with three-fourths its weight of nitric acid; or by saturating the mother waters of nitre with sada instead of po-

Nitrate of strontian may be obtained in the same manner as that of barytes, with which it agrees in the

shape of its crystals, and most of its preperties.

Nitrate of lime, the calcurcous nitre of older writers, abounds in the mortar of old buildings, particularly those that have been much exposed to animal effluvia, or processes in which azote is set free. Hence it abounds in nitre beds, as was observed when treating of the nitrate of potassa. It may also be prepared artificially by pouring dilute nitric acid on carbonate of

lime.

The nitrate of ammonia possesses the property of exploding, and being totally decomposed, at the temperature of 600°, whence it acquired the name of nitrum fammans. The readiest mode of preparing it is by adding carbonate of ammonia to dilute nitric acid till saturation takes place. If this solution be evaporated in a heat between 70° and 100°, and the evaporation not carried too far, it crystallizes in hexahedral prisms, tempinating in very autue pyramids. If the heat rise to terminating in very acute pyramids. If the heat tiset of 2129, it will afford, on cooling, long fibrous silky crystals: if the evaporation be carried so far as for the salt to concrete immediately on a glass rod by cooling, it will form a compact mass. According to Sir H. Davy, these differ but little from each other, except in the water they contain.

When dried as much as possible without decomposition, it consists of 6.75 acid + 2.125 ammonia + 1.125

water.

The chief use of this salt is for affording nitrous oxide on being decomposed by heat.

Nitrate of magnesia, magnesian nitre, crystallizes

slowly. It is soluble in an equal weight of cold water, and in but little more hot, so that it is scarcely crystal-lizable but by spontaneous evaporation.

The two preceding species are capable of combining into a triple salt, an ammoniaco-magnesian nitrate, either by uniting the two in solution, or by a partial decomposition of either by means of the base of the other. This is slightly inflammable when suddenly heated; and by a lower heat is decomposed, giving out oxygen azote, more water than it contained, nitrous oxide, and nitric acid. The resideum is pure magnesia

From the activity of the nitric acid as a solvent of earths in analyzation, the nitrate of glucine is better known than any other of the salts of this new earth. Its form is either pulverulent, or a tenacious or ductile mass. Its taste is at first saccharine, and afterward astringent. It grows soft by exposure to heat, soon melts, its acid is decomposed into oxygen and azote, and its base alone is left behind. It is very soluble and very deliquescent.

Nitrate, or rather supernitrate of alumina, crystal-lizes, though with difficulty, in thin, soft, pliable flakes. It is of an austere and acid taste, and reddens blue ve-It is of an austere and acid taste, and reddens onle vegetable colours. It may be formed by dissolving in diluted nitric acid, with the assistance of heat, tresh precipitated alumina, well washed but not dried. It is deliquescent, and soluble in a very small portion of water. Alkohol dissolves its own weight. It is easily decomposed by heat.

decomposed by heal.

Nitrate of zircone crystallizes in small, capillary, silky needles. Its taste is astringent. It is easily decomposed by fire, very soluble in water, and deliquescent. It may be prepared by dissolving zircone instrong nitric acid; but, like the preceding species, the acid is streaming the proceding species. altvays in excess

Nitrate of yttria may be prepared in a similar manner. Its taste is sweetish and astringent. It is scarcely to be obtained in crystals; and if it be evaporated by too strong a heat, the salt becomes soft like honey, and on cooling, concretes into a stony mass." Ure's Chem.

NITRIC ACID OXYGENIZED. The apparent oxygenation of nitric acid by Thenard, ought to be regarded merely as the conversion of a portion of its combined water into dentoxide of hydrogen.

Nitric oxide. See Nitrogen, dentoxide of.

Nitric oxide of Mercury. See Hydrargyri nitrico-

NITRICO-OXIDUM HYDRARGYRI. See Hydrargyri

NITROGEN. (From νιτρον, nitre, and γενναω, to generate: so called because it is the generator of nitre.) generate: so cancer because it is the generator of https://
Azot; Azote. "An important elementary or undecomposed principle. As it constitutes four-fifths of the
volume of atmospheric air, the readiest mode of procuring azote is to abstract its oxygenous associate, by
the combustion of phosphorus or hydrogen. It may
also be distincted for a principle of the property of the combustion of phosphorus or hydrogen. also be obtained from animal matters, subjected in a glass retort to the action of nitric acid, diluted with 8 or 10 times its weight of water.

Azote possesses all the physical properties of air. Azote possesses at the physical properties of air. It extinguishes thane and annual life. It is absorbable by about 100 volumes of water. Its spec gravity is 0.9722. 100 cubic inches weigh 29.65 grains. It has neither taste nor smell. It unites with oxygen in four proportions, forming four important compounds. These are.

Protoxide of azote, called also nitrous oxide, pro-

1. Protoxide of diade, called also introus oxide, protoxide of nitrogen, and gaseous oxide of diade.

This combination of nitrogen and oxygen was formerly called the dephlogisticated nitrous gas, but now gaseous oxide of nitrogen or nitrous oxide. It was first discovered by Priestley. Its nature and properties have since been investigated (though not very accurately) by the contraction of the protoxidate of t a society of Dutch chemists.

Sir Humphrey Davy has examined with uncommon accuracy the formation and properties of all the substances concerned in its production. He has detected the sources of error in the experiments of Priessley and the Dutch chamists, and to the accuracy was are indebted for a the Dutch chemists, and to him we are indebted for a thorough knowledge of this gas. We shall, therefore,

exhibit the philosophy of this gaseous fluid, as we find ! it in his researches concerning the nitrous oxide.

Properties. It exists in the form of a permanent

A candle burns with a brilliant flame and crackling noise in it; before its extinction the white inner flame becomes surrounded with a blue one. Phosphorus introduced into it, in a state of actual inflammation, burns with increased splendour, as in oxygen gas. phur introduced into it when burning with a feeble blue flame is instantly extinguished; but when in a state of vivid inflammation, it burns with a rose-coloured flame. Ignited charcoal burns in it more brilliantly than in atmospheric air. Iron wire, with a small piece of wood affixed to it, when inflamed, and introduced into a vessel filled with this gas, burns vehemently, and throws out bright scintillating sparks. No combustible body, however, burns in it, unless it be previously brought to a state of vivid inflammation. Hence sulphur may be melted, and even-sublimed in it, phosphorus may be liquefied in it without undergoing combustion. Nitrous oxide is pretty rapidly absorbed by water that has been boiled; a quantity of gas equal to rather more than half the bulk of the water may be thus made to disappear, the water acquires a sweetish taste, but its other pro-perties do not differ perceptibly from common water. The whole of the gas may be expelled again by heat. It does not change blue vegetable colours. It has a distinctly sweet taste, and a faint but agreeable odour. It undergoes no diminution when mingled with oxygen or nitrous gas. Most of the liquid inflammable such as æther, alkohol, volatile and fat oils, absorb rapidly and in great quantity. Acids exert but little action on it. The affinity of the neutro-salme solutions action on it. The animal of the description of the perceptible change at common temperatures; the mu riatic and sulphurous acid gases excepted, which un-dergo a slight expansion. Alkalies freed from carbonic acid, exposed in the dry or solid form, have no action upon it; they may, however, be made to combine with it in the nascent state, and then constitute saline compounds of a peculiar nature. These combinations de-flagrate when heated with charcoal, and are decomposed by acids; the gaseous oxide of nitrogen being disengaged. It undergoes no change whatever from the simple effect of light. The action of the electric spark, for a long while continued, converts it into a gas, analogous to atmospheric air and nitrous acid; the same is case when it is made to pass through an ignited earthen tube. It explodes with hydrogen in a variety of proportions, at very high temperatures; for instance, when electric sparks are made to pass through the mix-ture. Sulphuretted, heavy, and light carburetted hy-drogen gases, and gaseous oxide of carbon, likewise burn with it when a strong red heat is applied. 100 parts by weight of nitrous oxide, contain 36.7 of oxy gen and 63.3 of nitrogen; 100 cubic inches weigh 50 grains at 55° temperature and 30 inches atmospheric Animals, when wholly confined in gaseous pressure. oxide of nitrogen, give no signs of uneasiness for some moments, but they soon become restless and then die. When gaseous oxide of nitrogen is mingled with atmospheric air, and then received into the lungs, it generates highly pleasurable sensations; the effects it produces on the animal system are eminently distinguished from every other chemical agent. It excites every fibre to action, and rouses the faculties of the mind, inducing a state of great exhibitration, an irresistible propensity to laughter, a rapid flow of vivid ideas; and unusual vigour and fitness for muscular exertions, in some re-spects resembling those attendant on the pleasantest period of intoxication, without any subsequent languor, depression of the nervous energy, or disagreeable feelings; but more generally followed by vigour, and a pleasurable disposition to exertion, which gradually subsides

Sir H. Davy first showed, that by breathing a few quarts of it, contained in a silk bag, for two or three minutes, effects analogous to those occasioned by drinking fermented liquors were produced. Individuals, who differ in temperature as differ in temperament, are, however, as we might expect, differently affected.

Sir H. Davy describes the effect it had upon him as follows:- 'Having previously closed my nostrils, and exhausted my lungs, I breathed four quarts of nitrous

oxide from and into a silk bag. The first feelings were similar to those produced in the last experiment (giddiness); but in less than half a minute, the respiration being continued, they diminished gradually, and were succeeded by a sensation analogous to gentle pressure on all the muscles, attended by a highly pleasurable thrilling, particularly in the chest and the extremities. The objects around me became dazzling, and my hearing more acute. Towards the last inspiration the thrilling increased, the sense of muscular power became greater, and at last an irresistible propensity to action was indulged in. I recollect but indistinctly what followed: I know that my motions were various

'These effects very soon ceased after respiration. ten minutes I had recovered my natural state of mind. The thrilling in the extremities continued longer than the other sensations.

The gas has been breathed by a very great number of persons, and almost every one has observed the same things. On some few, indeed, it has no effect whatever, and on others theeffects are always painful.

'Mr. J. W. Tobin, (after the first imperfect trials,)

when the air was pure, experienced sometimes sub lime emotions with tranquil gestures, cometimes violent muscular action, with sensations indescribably exquisite: no subsequent debnity—no exhaustion—his trials have been very numerous. Of late he has only felt sedare pleasure. In Sir H. Davy the effect is not diminished

'Mr. James Thomson. Involuntary laughter, thrilling in his toes and fingers exquisite sensations of pleasure. A pain in the back and knees, occasioned by fatigue the day before, recurred a few minutes afterward. A similar observation, we think, we have made on others; and we impute it to the undoubted power of the gas to increase the sensibility of nervous power, beyond any other sgent, and probably in a pecu-

itar manner.

'Mr. Thomas Pople. At first unpleasant feelings of tension; afterward agreeable luxurious languor, with suspension of muccuar power; lastly, powers increased both of body and mind.

'Mr. Stephen Hammick, surgeon of the Royal Hospital, Plymouth. In a small dose, yawning and lan-guer. It should be observed that the first sensation has often been disagreeable, as guidniess; and a few persons, previously appeliensive, have left off inhaling as soon as they felt this. Two larger doses produced a glow, unrestrainable tendency to muscular action, a gow, threstandar tenderly to macedia across high spirits, and more with ideas. A bag of common air was first given to Mr. Hammick, and he observed that it produced no effect. The same precaution against the delusions of imagination was of course frequently

Mr. Robert Southey could not distinguish between the first effects and an apprehension of which he was unable to divest himself. His first definite sensations were, a fulness and dizziness in the head, such as to induce a fear of falling. This was succeeded by a laugh which was involuntary, but highly pleasurable, accompanied with a peculiar thrilling in the extremities; a sensation perfectly new and delightful. For many hours after this experiment, he imagined that his taste and smell were more acute, and is certain that he felt unusually strong and cheerful. In a second experiment, he felt pleasure still superior, and has once poetically remarked, that he supposes the atmosphere of the highest of all possible heavens to be composed of this gas.

'Robert Kinglake, M.D. Additional freedom and power of respiration, succeeded by an almost delirious, but highly pleasurable sensation in the head, which became universal with increased tone of the muscles. At last, an intoxicating placidity absorbed for five minutes all voluntary power, and left a cheerfulness and alacrity for several hours. A second stronger dose proautority for several nours. A second stronger dose pro-duced a perfect trance for about a minute; then a glow-pervaded the system. The permanent effects were an invigorated feeling of vital power, and improved spirits. By both trials, particularly by the former, old rheumatic feelings seemed to be revived for the

moment.

Mr. Wedgewood breathed atmospheric air first, without knowing it was so. He declared it to have no effect, which confirmed him in his disbelief of the power of the gas. After breathing this some time, however, he threw the bag from him, kept breathing on laboriously with an open mouth, helding his nose a few min with his left hand, without power to take it away, though aware of the ludicrousses of his situation, all his muscles seemed to be thrown into vibrating the whole the whole all his muscles seemed to be unown into vorsing motions; he had a violent inclination to make antic gestures, seemed lighter than the atmosphere, and as if about to mount. Before the experiment, he gestifies, seemed against than the aumosphere, and as if about to mount. Before the experiment, he was a good deal fatigued after a long ride, of which the permanently lost all sense. In a second experiment, hearly the same effect, but with less pleasure. In a third, much greater pleasure. Such are the properties that characterize the nitrous

The Dutch chemists and some French and German philosophers assert that it cannot be respired; that burning phosphorus, sulphur, and charconl, are extinguished in it, &c. It is probable they did not examine it in a state of parity, for it is otherwise difficult to account for these and many other erroneous

opinions

Method of obtaining the protocide of nitrogen.— Caseous oxide of nitrogen is produced, when substances, having a strong affinity with oxygen, are brought into contact with nitric acid, or with nitrous gas. It may therefore be obtained by various processes, gas. It may increase be on anear by various processes, in which nitrous gas or nifric acid is decomposed by substances capable of attracting the greater part of their oxygen. The most commedious and expeditious, as well as the cheapest more of obtaining it, is by decomposing intrate of annuous at a certain temperature, in the following manner:

1. Introduce into a glass retort some pure nitrate of

a. Introduce into a glass retort some pure intrate of summona, and apply the heat of an Argand's lamp; the salt will soon liquefy, and, when it begins to hoil, gas will be evolved. Lucrease the heat gradually till the body and neck of the retort become filled with a Semi-trausparent milky white vapour. In this state the temperature of the fused nitrate is between 340°

After the decomposition has proceeded for a few minutes, so that the gas evolved quickly enlarges the flame of a taper held near the ornice of the retort, it may be collected over water, care being taken during the whole process, never to suffer the temperature of the whole process, never to since the temperature of the fused nitrate to rise above 500° Fahr, which may easily be judged of, from the density of the vapours in the rejort, and from the quiet ebullition of the fused nitrate; for, if the heat be increased beyond this point. the vapours in the retort acquire a reddish and more transparent appearance; and the fused nitrate begins to rise, and occupy twice the bulk it did before. The nitrons exide after its generation, is allowed to stand over water, for at least six hours, and is then fit for

respiration or other experiments.

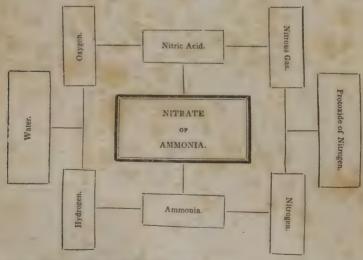
Explanation.—Nitrate of ammonia consists of nitric arid and ammonia; nitric acid is composed of nitrous gas and oxygen; and ammonia consists of hydrogen and nitrogen; At a temperature of about 480° the attractions of hydrogen for nitrogen in ammonia, and that of nitrous gas for oxygen in nitric acid, are diminished: while, on the contrary, the attractions of the hydrogen of annuonia for the oxygen of the nitric acid. and that of the nitrogen of the ammonia for the nitrous gas of the nitric acid, are increased; hence, all the former affinities are broken, and new ones produced, namely, the hydrogen of the ammonia attracts the oxygen of the nitric acid, the result of which is water; the nitrogen of the ammonia combines with the libe rated nitrous gas, and forms nitrous oxide. The water and nitrous oxide produced, probably exist in binary combination in the aériform state, at the temperature of the decomposition.

of the decomposition.

Such is the philosophy of the production of protoxide of nitrogen, by decomposing nitrate of animonia at that temperature, given by Davy.

To illustrate this complicated play of affinity more fully, the following sketch may not be deemed superfluere.

A Diagram exhibiting the production of Gaseous Oxide of Nitrogen, by decomposing Nitrate of Ammonia, at 4800 Fuhr.



Sir Humphrey Davy has likewise pointed out, that, when the heat employed for decomposing nitrate of ammonia is raised above the before-stated temperature, another play of affinities takes place, the attractions of nitrogen and hydrogen for each other and of oxygen for nitrous gas are still more diminished, while that of nitrogen for nitrous gas is totally destroyed, and that of hydrogen for oxygen increased to a greater extent. A new attraction likewise takes place, namely, that of nitrous gas for nitric acid to form nitrous acid vapour,

and a new arrangement of principles is rapidly prothat a new arrangement or principles is rapidly pro-duced: the nitrogen of the animonia having no affinity for any of the single principles at this temperature, enters into no binary compound; the oxygen of the nitric acid forms water with the hydrogen, and the nitrous gas combines with the nitric acid to form nitrous acid vapour.

All these substances most probably exist in combina tion, at the temperature of their production: and at a lower temperature assume the form of nitrous acid.

mirrous gas, nitrogen, and water; and hence we see | ducing instant suffocation whenever they attempt to the necessity of not heating the nitrate of ammonia | breathe it. The greater number of combustible bodies

above the before-stated temperature.

On account of the rapid absorption of gaseous oxide of nitrogen by water, it is economical to preserve the fluid which has been used to confine this gas, and to make use of it for collecting other quantities of it. In order to hasten its production, the nitrate of ammonia may be previously freed from its water of crystallization by gently fusing it in a glass of Wedgwood's bason for a few minutes, and then keeping it for use in a wellstopped bottle.

Nitrous oxide may likewise be obtained by exposing common nitrous gas to alkaline sulphites, particularly to sulphite of potassa containing its full quantity of water of crystallization. The introus oxide produced from nitrous gas by sulphite of pota-sa has all the properties of that generated from the decomposi-tion of nitrate of ammonia.

The conversion of nitrous gas into nitrous oxide, by these bodies, depends on the abstraction of a portion of its oxygen by the greater affinity of the sulphite pre-sented to it. The nitrogen and remaining oxygen as-sume a more condensed state of existence, and constitute nitrous oxide.

Nitrous oxide may also be obtained by mingling together nitrous gas and sulphuretted hydrogen gas.
The volume of gases in this case is diminished, sulphur deposited, ammonia, water, and nitrous oxide are

formed.

The change of principles which take place in this The change of principles which case place in this experiment, depends upon the combination of the hydrogen of the sulphuretted hydrogen gas, with dufferent portions of the oxygen and nitrogen of the ultrous gas, to form water and ammonia, while it deposites sulphur. The remaining oxygen and nitrogen being left in due proportion constitute nitrous oxide.

Remark.-This singular exertion of attraction by a simple body appears highly improbable a priori; but the formation of ammonia, and the non-oxygenation of the sulphur, elucidate the fact. In performing this ex-periment, care should be taken that the gases should be rendered as dry as possible; for the presence of water

considerably retards the decomposition.

4. Nitrous oxide may also be produced by preventing alkaline sulphurets to nitrous gas. Davy observed that a solution of sulphuret of strontian, or barytes, answers this purpose best.

This decomposition of nitrous gas is not solely pro-This decomposition of nitrous gas is not solely produced by the abstraction of oxygen from the nitrous gas, to form sulphuric acid. It depends equally on the decomposition of the sulphuretted hydrogen dissolved in the solution or liberated from it. In this process, sulphur is deposited and sulphuric acid formed.

5. Nitrous oxide is obtained in many circumstances similar to those in which nitrous gas is produced. Dr.

Priestley found that nitrous oxide was evolved, together with nitrous gas, during the solution of iron, tin,

and zine in nitric acid.

It is difficult to ascertain the exact rationale of these processes, for very complicated agencies of affinities take place. Either the nascent hydrogen arising from the decomposition of the water by the metallic substance may combine with portions of the oxygen and nitrogen of the nitrous gas; and thus by forming water and ammonia, convert it into nitrous oxide, or the metallic substance may attract at the same time oxygen from the water and nitrous gas, while the mascent hy-drogen of the water seizes upon a portion of the nitro-gen of the nitrous gas, to form ammonia. The analogy between this process and the decomposition of nitrous gas by sulphuretted hydrogen, renders the first opinion most probable.

Such are the principal methods of obtaining nitrons xide. There are no reasons, Davy thinks, for supposing that nitrous oxide is formed in any of the proby which it is constituted forbids us to hope for the cesses of nature, and the nice equilibrium of affinity

must be content to produce it artificially.

II. Deutoxide of azote, termed likewise nitrous gas,

or nitric oxide.

The name of nitrous gas is given to an aëriform fluid, consisting of a certain quantity of nitrogen and oxygen, combined with caloric. It is an elastic, colour-less fluid, having no sensible taste; it is neither acid nor alkaline- it is exceedingly hurtful to animals, pro-

refuse to burn in it. It is nevertheless capable of sup-porting the combustion of some of these bodies. Phosphorus burns in nitrous gas when introduced into it in a state of inflammation: pyrophorus takes fire in it spontaneously.

It is not decomposable by water, though 100 cubic inches of this fluid, when freed from air, absorb about five cubic inches of the gas. This solution is void of taste; it does not redden blue vegetable colours; the gas is expelled again when the water is made to boil or suffered to freeze. Nitrous gas has no action on nitro-gen gas even when assisted by heat. It is decomposed by several metals at high temperatures.

Its specific gravity, when perfectly pure, is to that of atmospheric air as about 1.04 to 1.

Ardent spirits, saccharine matters, hydro-carbonates, sulphurous acid, and phosphorus, have no action on it sulphurous acid, and phosphorus, have no action on it at the common temperature. It is not sensitily changed by the action of light. Heat dilates it. It rapidly combines with oxygen gas at common temperatures, and converts it into nitrous acid. Atmospheric air produces the same effect, but with less intensity. It is absorbable with green sulphate, muriate and nitrate of iron, and decomposable by alkaline, tenene, and metallic sulphurets, and other bodies, that have a strong affinity for expects, but it is not canadia of combining. affinity for oxygen; but it is not capable of combining with them chemically, so as to form saline compounds. From the greatest number of bodies which absorb it, it may be again expelled by the application of heat.

It communicates to flame a greenish colour before extinguishing it; when mixed with hydrogen gas this acquires the property of burning with a green flame. It

addines the property of norming with a green name. It is absorbable by uttre acid and renders it funities.

When exposed to the action of caloric in an ignited porcelain tube, it experiences no alteration, but when electric sparks are made to pass through it, it is decomposed and converted into nitrous acid, and ntrogen gas. Phosphorus does not shine in it. It is composed of about eight parts of oxygen, and seven of nitrogen

Methods of obtaning deutoxide of netrogen .- 1. into a small proof, or retort, some copper whe or pieces of the same metal, and pour on it intite acid of comerce diluted with water, an effervescence takes place, and introas gas will be produced. After having suffered the first portions to escape on account of the atmospheric air contained in the retort, collect the gas in the water-apparatus as usual. In order to obtain the the water-apparatus as usual. In order to obtain the gas in a pure state, it must then be shook for some time in contact with water. The water in this instance suffers no alteration; on the contrary, the acid undergoes a partal decomposition; the metal robs some of the nitric acid of the greatest part of its oxygen, and the intre actor of the greatest part of its oxygen, and becomes oxidised; the and having lost so much of its oxygen, becomes thereby so aftered, that at the usual temperature it can exist no longer in the liquid state, but instantly expands and assumes the form of gas; ceasing at the same time to act asyn acid, and exhibiting different properties; but the acid remaining undecomposed combines with the oxide of copper, and forms nitrate of copper.

Instead of presenting copper to nitric acid, iron, zinc, moreury, or silver, may be made use of. The metals best suited for the production of nitrous gas are silver,

mercury, and copper.

2. Deutoxide of nitrogen may likewise be obtained y synthesis. This method of obtaining it we owe to by synthesis. Dr. Milner of Cambridge.

Into the middle of an earthern tube about 20 inches long and three-fourths of an inch wide, open at both ends, put as much coarsely-powdered manganese as is ends, put as much coarsely-powdered manganese as is sufficient nearly to fill it. Let this tube traverse a furnace having two openings opposite to each other. To one end of the tube lute a retort containing water strongly impregnated with ammonia, and to the other adapt a bent glass tube which passes into the pneumatic trongle. Let a fire be kindled in the furnace, and when the manganese may be supposed to be red hot, apply a gentle heat to the retort, and drive over it the vapour of the ammonia; the consequence will be that nitrous gas will be delivered at the farther end of the tube, while the ammonia enters the other end; and this effect does not take place without the presence of the addition. the alkali.

Explanation.-Aminonia consists of hydrogen and nitrogen; its hydrogen combines with the oxygen

which is given out by the ignited manganese, and forms water; its nitrogen unites at the same time to another portion of the oxygen, and constitutes the ni-

trous gas

There is a cause of deception in this experiment, against which the operator ought to be on his guard, lest he should conclude no nitrous gas is formed, when, in reality, there is a considerable quantity. The ammonia, notwithstanding every precaution, will frequently pass over undecomposed. If the receiver in the pneumatic trough is filled with water, great part of this will indeed be presently absorbed; but still some portion of it will mix with the nitrous gas formed in the process. Upon admitting the atmospheric air, the nitrous gas will become decomposed, and the red ni-trous fumes instantly unite with the alkali. The re-ceiver is presently filled with white clouds of nitrate of ammonia; and in this manner a wrong conclusion may easily be drawn from the want of the orange colour of the pittory force. A considerable quantity of lour of the nitrous fumes. A considerable quantity of nitrous gas may have been formed, and yet no orange colour appear, owing to this circumstance; and there-fore it is easy to understand now a small quantity of nitrous gas may be most effectually disguised by the

Dr. Milner also obtained nitrous gas, by passing ammoniacal gas over sulphate of iron deprived of its water of crystallization.

III. Nitrous acid. See Nitric acid.

IV. Nitric acid. See Nitrous acid.

Azote combines with chlorine and iodine, to form

two very formidable compounds:—

1. The chlorade of acute was discovered about the beginning of 1812, by Dulong; but its nature was first investigated and ascertained by Sir H. Davy.

Put into an evaporating porcelain basin a solution of one part of nitrate or nurrate of ammonia in 10 of water, heated to about 100°, and invert into it a wide-mouthed bottle, filled with chlorine. liquid ascends, by the condensation of the gas, oilylooking drops are seen floating on its surface, which collect together, and fall to the bottom in large globules. This is chlorade of azote. By putting a thin stratum of common salt into the bottom of the basin, we prevent the decomposition of the chloride of azote, by the ammonacal salt. It should be formed only in very small quantities. The chloride of azote, thus ob-tained, is an oily looking liquid, of a yellow colour, and a very pungent intolerable odour, similar to that and a very pringent interestable colors, sathlar to that of chlorocarbonous acid. Its sp. gr. is 1.633. When tepid water is poured into a glass containing it, it expands into a volume of elastic fluid, of an orange colour, which diminishes as it passes through the

'I attempted,' says Sir H. Davy, 'to collect the products of the explosion of the new substance, by applying the heat of a spirt-lamp to a globule of it, confined ing the neat of a spire-tamp to a groupe of it, confined in a curved glass tuke over water; a little gas was at first extricated; but long before the water had attained the temperature of abullition, a violent flash of light was perceived, with a sharp report; the tube and glass were broken into small fragments, and I received a severe wound in the transparent cornea of the eye, which has produced a considerable inflammation of the eye, and obliges me to make this communication by an amanuensis. This experiment proves what extreme caution is necessary in operating on this substance, for the quantity I used was scarcely as large as a grain of mustard-seed.'—It evaporates pretty rapidly in the air; and in vacuo it expands into a vapour, which still possesses the power of exploding by heat. When it is cooled artificially in water, or the ammoniacal solution, to 40° F., the surrounding fluid congeals; but when alone, it may be surrounded with a mixture of ice and muriate of lime, without freezing.

It gradually disappears in water, producing azote while the water becomes acid, acquiring the taste and smell of a weak solution of nitro-muriatic acid.

With muniatic and nitric acids, it yields azote; and with dilute sulphuric acid, a mixture of azote and oxy-gen. In strong solutions of ammonia it detonates; with weak ones, it affords azote.

When it was exposed to pure mercury, out of the contact of water, a white powder (calome), and azote gen spontaneously combine in other proportions, under were the results. 'The action of mercury on the compound,' says Sir H. 'appeared to offer a more correct we find, that mild calcareous or alkaline matter favoura

and less dangerous mode of attempting its analysis; but on introducing two grains under a glass tube filled but on introducing two grains under a glass tube filled with mercury, and inverted, a violent detonation oc-curred, by which I was slightly wounded in the head and hands, and should have been severely wounded, had not my eyes and tace been defended by a plate of glass, attached to a proper cap; a precaution very necessary in all investigations of this body.' In using smaller quantities, and recently distilled mercury, he obtained the results of the experiments, without any violence of action.

A small globule of it, thrown into a glass of olive oil, produced a most violent explosion; and the glass, though strong, was broken into fragments. Similar effects were produced by its action on oil of turpentine and naphtha. When it was thrown into ether or alkohol, there was a very slight action. When a particle of it was touched under water by a particle of phos-phorus, a brilliant light was perceived under the water, and permanent gas was disengaged, having the cha-

racters of azote.

When quantities larger than a grain of mustardseed were used for the contact with phosphorus, the explosion was always so violent as to break the vessel in which the experiment was made. On tinfoil and zinc it exerted no action; nor on sulphur and resin.
But it detonated most violently when thrown into a solution of phosphorus in ether or alkohol.

The mechanical force of this compound in detonation, seems superior to that of any other known, not even excepting the ammoniacal fulminating silver. The velocity of its action appears to be likewise

greater.

2. Iodide of acote. Azote does not combine directly We obtain the combination only with jodine. means of ammonta. It was discovered by Courtois, and carefully examined by Colin. When ammoniacal gas is passed over iodine, a viscid shining liquid is immediately formed, of a brownish-black colour, which, in proportion as it is saturated with ammonia, loses its lustre and viscosity. No gas is disengaged during the formation of this liquid, which may be called *iodida* of aumonia. It is not fulminating. When dissolved of aumonia. It is not full intaining. When dissolved in water, a part of the aumonia is decomposed; its hydrogen forms hydriodic acid; and its azote combines with a portion of the iodine, and forms the full minating powder. We may obtain the iodide of azote disselled the combined of the composition of the iodine, and forms the full minating powder. directly, by putting directly, by putting directly of ammonia. by putting pulverulent iodine into common water of ammonia. This indeed is the best way of preparing it; for the water is not decomposed, and seems to concur in the production of this iodide, only by determining the formation of hydriodate of ammonia.

The iodide of azote is pulverulent, and of a brownish-black colour. It detonates from the smallest shock, and from heat, with a feeble violet vapour. When

and from heat, with a feeble violet vapour. When properly prepared, it often detonates spontaneously, Hence, after the black powder is formed, and the liquid ammonta decanted oil, we must leave the capsule containing it in perfect repose.

When this iodide is put into potassa water, azote is disengaged, and the same products are obtained as when nodine is dissolved in that alkaline lixivium. The hydriodate of ammonia, which has the property of dissolving a great deal of iodine, gradually decomposes the fullminating powder, while azote is set at liberty. Water itself has this property, though in a much lower degree. As the elements of iodide of azote are so feebly united, it ought to be prepared with azote are so feebly united, it ought to be prepared with great precautions, and should not be preserved. In the act of transferring a little of it from a platina capsule to a piece of paper, the whole exploded in my hands, though the friction of the particles on each other was inappreciably small.

The strongest arguments for the compound nature of azote are derived from its slight tendency to combination, and from its being found abundantly in the organs of animals which feed on substances that do

not contain it.

Its uses in the economy of the globe are little under-This is likewise favourable to the idea that the real chemical nature is as yet unknown, and leads to the hope of its being decomposable.

It would appear that the atmospheric azote and oxy-

earth; and that they are essential to its production in our artificial arrangements, and forming nitre from decomposing animal and vegetable substances.

NITROGEN, PROTOXIDE OF. See Nitrogen. NITROGEN, DELTOXIDE OF. See Nitrogen. NITROLEUCIC ACID. (Acidum nutro-leucicum:

so called from its being obtained by the action of nitric acid on leucine.) Leucine is capable of uniting to nitrie acid, and forming a compound, which Braconnot has called the nitro-leneir acid. When we dissolve leucine in nitric acid, and evaporate the solution to a certain point, it passes into acrystalline mass, without any disengagement of nitrous vapour, or of any gaseous matter; if we press this mass between blotting paper, and redissolve it in water, we shall obtain from this by concentration, fine, divergent, and nearly colourless needles. These constitute the new acid. unites to the bases, forming salts which fuse on red-

thites to the bases, formula satis with the hot coals. The nitro-leucates of lime and magnesia are unalterable in the air.

NITRO-MURIATIC ACID. Aquaregia. When nitric and muriatic acids are mixed, they become yellow, and acquire the power of readily dissolving gold, low, and adquire the power or reamy unsorving good, which neither of the acids possessed separately. This mixture evolves chlorine, a partial decomposition of both acids having taken place; and water, chlorine, and nitrous acid gas are thus produced, that is, the hydrogen of the muriatic acid abstracts oxygen from the nitric to form water. The result must be chlorine and

nitrous acid.—Brande.
NITRO-SACCHARIC ACID. nitrous acid.—Braude.

NITRO-SACCHARIC ACID. Acidum nitro-saccharicem. Nitro-saccharine acid. When we heat the sugar of gelatine with nitric acid, they dissolve without any apparent disengagement of gas, and if we evaporate this solution to a proper degree, it forms, on cooling, a crystalline mass. On pressing this mass between the folds of blotting-paper, and recrystallizing them, we obtain beautiful prisms, colourless, transparent, and slightly striated. These crystals are very different from those which servet oproduce them; and constitute, according to Bracomnot, a true acid, which results from the combination of the nitric acid itself, with the sweet matter of which the first crystals are formed. Thenard conceives it is the nitrous acid which is present. which is present.

Nitro-saccharic acid has a taste similar to that of the Nino-saccharic acid has a taste similar to that of the tartarie; only it is a little sweetish. Exposed to the fire in a capsule, it froths much, and is decomposed with the diffusion of a pungent smell. Thrown on burning coals, it acts like saltpetre. It produces no change in saline solutions. Finally, it combines with the bases, and gives birth to salts which possess peculiar properties. For example, the salt which it forms with lime is not deliquescent, and is very little soluble in strong alkohol. That which it produces with the oxide of lead detonates to a certain degree by the action of heat.—...tun. de Chimie et de Phys. xiii 113.

NITRO-SULPHURIC ACID. A compound, consisting of one part nitre dissolved in about ten of sulphuric acid.

NITROUS. Nitrosus. Of or belonging to nitre.
NITROUS ACD. Acidum nitrosum. Funning nitrous acid. It appears to form a distinct genus of salts, that may be termed nitrites. But these cannot be made by a direct union of their component parts, being chainstless only by exposing a nitrate to a little tunner. obtainable only by exposing a nitrate to a high temporal rature, which expels a portion of its oxygen in the state of gas, and leaves the remainder in the state of a nitrate, if the heat be not urged so far, or continued so long, as to effect a complete decomposition of the salt. In this way the nitrates of potassa and soda may be obtained, and perhaps those of barytes, strontian, lime, and magnesia. The nitrites are particularly charac-terized, by being decomposable by all the acids except the carbonic, even by the nitric acid itself, all of which expel them from nitrous acid. We are little acquainted with any one except that of potassa, which attracts moisture from the air, changes blue vegetable colours to green, is somewhat acrid to the taste, and when powdered emits a smell of nitric oxide.

The acid itself is best obtained by exposing nitrate

the formation of nitric acid, in certain regions of the of lead to heat in a glass retort. Pure mitrous acid comes over in the form of an orange-coloured liquid It is so volatile as to boil at the temperature of 82°. Its specific gravity is 1.450. When mixed with water it is decomposed, and nitrous gas is disengaged, occa-It is decomposed, and mirrous gas is disengaged, occasioning effervescence. It is composed to one volume of oxygen united with two of autrous gas. It therefore consists ultimately, by weight, of 1.75 nitrogen + 4 oxygen; by measure, of 2 oxygen + 1 nitrogen. The variously coloured acids of nitre are not nitrous acids, but nitric acid impregnated with nitrous gas, the deutoxide of nitrogen or azote.

Nitrous oxide. See Nitrogen. NITRUM. This name was anciently given to na-NITRUM VITRIOLATUM. Sulphuric acid and soda.

Sodie sulphus.

See Sodo sulphas.

NO BILIS. (Quasi noscibilis; from nosco, to know.) Noble. Some parts of animals, and of plants, are so named by way of eminence; as a vaive of the heart, and the more perfect metals, as gold and sixer. NOCTAMBULATION. Noctambulatio; from nor, night, and ambulo, to walk.) Noctambulation. Walking in the night, when askeep. See One-rodgata activa. Noctambulation. See Sociambulation.
Noctambulations. See Sociambulation.
Notambulation. See Gonorhaca darmientium. Nobling cuicus. See Cunes cornuus.
NODE. Nodus. A hard circumscribed tumour, proceeding from a bone, and caused by a swelling of the periosteum; they appear on every part of the body but are more common on such as are thinly covered but are more common on such as are thinly covered with muscles, as the os frontis, forepart of the tibia, with muscles, as the ost from s, forepart of the total, radius, and ulna. As they increase in size, they become more painful from the distention they occasion in the periosteum. When they continue long, the bone becomes completely carious.

NODOSUS. Knotty: nodose. Applied to the form of the seed-vessel of the Cacurbita melopopo.

NODUS. (From anad, to tie, flebrew.) A node or

NOTES. (From anal, to the neutway A house of swelling upon a hone. See Node.

No'll me tangere. A species of horpes affecting the skin and cartillages of the nose, very difficult to cure, because it is exasperated by most applications. The disease generally commences with small, superficial spreading ulcerations of the alse of the nose, which become more or less concealed beneath fufuraccous scabs. The whole nose is frequently destroyed by the progressive ravages of this peculiar disorder, which sometimes cannot be stopped or retarded by any treat-

ment, external or internal. NOMA. (From νεμω, to eat.) An ulcer that sometimes attacks the cheek or vulva of young girls. An ulcer that It appears in the form of red and somewhat livid It appears in the form of the and same as spots; is not attended with pyrexia, pair, or tumour, and in a few days becomes gangrenous.

and in a few days becomes gaugeenous. NON-NATURAL. Res non-naturales. Under this term, ancient physicians comprehend air, meat and drink, sleep and watching, motion and rest, the retentions and excretions, and the affections of the mind; or, mother words, those principal matters which do not enter into the composition of the body, but at the same time are necessary to its existence. NO'NUS. (Quasi novemus; from novem, nine.) The ninth. Sometimes applied to the coracoid muscle of the shoulder.

of the shoulder.

No'PAL. Nopalnochetzth. The plant that feeds the cochineal insect.

NORLA'NDICE BACCE. See Rubus arcticus. NOSE. Nussus. See Nures.
Nose, theeling of. See Epistaxis.
NOSOCO'MIUM. (From vooo, a disease, and корко, to take care of.) Nosodochium. An hospital or infirmary for the sick.

or infirmary for the sick.

Nosono-chiem. See Nosocomium.

NOSOLOGY. (Nosologia; from 1000; a disease, and 1000; a disease, and 1000; a disease.)

The doctrine of the names of diseases. Modern physicians understand by nosology the arrangement of diseases in classes, orders, genera, species, &c. The following are the approved arrangements of the several nosologists. That of Dr. Cullen. is generally adopted in this country, and next to it the arrangement of Sauvages.

#### Synoptical View of the Classes, Orders, and Genera, according to the Cullenian System.

| Synoptical Vil                             | w of the Classes, Orders, a                         |  | CUBERTAN System.   |
|--|---|--|--|
| Conner Y                                   | CLASS I.  | -PYREXIÆ.                                    | 20 Victionria  |
| ORDER I.<br>FEBRES.                        | 8. Ophthalmia                                       | 21. Rheumatismus                             | 32. Urticaria<br>33. Pemphigus                           |
|  | 9. Phrenitis 10. Cynanche                           | 22. Odontalgia<br>23. Podagra                | 34. Aphtha.  |
| 1. Tertiana                                | 11. Pneumonia                                       | 21. Arthropuosis.                            | ORDER IV.  |
| 2. Quartana                                | 12. Carditis  | ORDER III.                                   | HÆMORRHAGLÆ  |
| 3. Quotidiana.                             | 13. Periconitis                                     | EXANTHEMATA.                                 | 35. Epistaxis  |
| § 2. Continuæ.                             | 14. Gastritis                                       | 25. Variola<br>26. Varicella<br>27. Rubeola  | 36. Hæmoptysis<br>37. Hæmorrhois                         |
| 4. Synocha<br>5. Typhus                    | 15. Enteritis 16. Hepatitis                         | 97 Rubeola                                   | 38. Menorchagia.   |
| 6. Synochus.                               | 17. Splenitis                                       | 28. Scarlatina                               | ORDER V.   |
| ORDER U.                                   | 18. Nephritis                                       | 29. Pestis                                   | PROFLUVIA.   |
| PHLEGMASIÆ.                                | 19. Cystilis  | 30. Erystpelas<br>31. Miliaria               | 39. Catarrhus  |
| 7. Phlogosis                               | 20. Hysteritis                                      | 31. Miliaria                                 | 40. Dysenteria.  |
|  | CLASS IL  | -NEUROSES.                                   |  |
| ORDER I.                                   | 46. Chlorosis.                                      | 53. Asthma                                   | 62. Hydrophobia.   |
| COMATA.                                    | ORDER III.  | 54 Dyspnæa                                   | ORDER IV.  |
| 41. Appoptexia                             | SPASMI.   | 55. Pertussis                                | VESANIÆ.   |
| 42. Paralysis.                             | 47. Tetanus<br>48. Convulsio                        | 56. Pyrosis<br>57. Colica                    | 63. Amentia<br>64. Melancholia                           |
| ORDER II.<br>ADYNAMIÆ.                     | 49. Chorea  | 58. Cholera                                  | 65. Mania  |
| 43. Syncope                                | 50. Raphania  | 59. Diarrhœa                                 | 66. Oneirodynia.   |
| 44. Dyspepsia                              | 51. Epilepsia                                       | 60. Diabetes                                 |  |
| 45. Hypochondriasis                        | 51. Epilepsia<br>52. Palpitatio                     | 59. Diarrhœa<br>60. Diabetes<br>61. Hysteria |  |
|  |   | -CACHEXLÆ.                                   |  |
| ORDER I.                                   | §2. Flatuosæ.                                       | 77. Ascites                                  | 83. Syphilis   |
| MARCORES.                                  | 70. Pneumatosis                                     | 77. Ascites<br>78. Hydrometra                | 84. Scorbutus<br>85. Elephantiasis                       |
| 67. Tabes                                  | 71. Tympanites                                      | 79. Hydrocele.                               | 85. Elephantiasis  |
| 68. Atrophia.                              | 72. Physometra.                                     | § 4. Solidæ.                                 | 8b. Lepra  |
| ORDER II.                                  | \$3. Aquosa.  | 80. Physconia                                | 87. Frambæsia  |
| INTUMESCENTIÆ.                             | 73. Anasarca  | 81. Rachitis.                                | 88. Trichoma<br>89. Icterus.                             |
| § 1. Adiposæ.                              | 74. Hydrocephalus<br>75. Hydrocachitis              | ORDER III.<br>IMPETIGINES.                   | es. Itterus.   |
| 69. Polysarcia                             | 76. Ilydrothorax                                    | 82. Scrofula                                 |  |
|  |   |  |  |
| O ¥  | CLASS IN  | V.—LOCALES.                                  | 296 Constian   |
| ORDER I.<br>DYSÆSTHESIÆ.                   | § 2. Appetitus deficientes<br>105. Anorexia         | 6. 120. Gonorrhea.                           | 136. Ganglion<br>137. Hydatis                            |
| 90. Caligo                                 | 106 Admia   | EPISCHESES.                                  | 138. Hydarthrus  |
| 91. Amaurosis                              | 105. Anorexia<br>106. Adipsia<br>107. Anaphrodisia. | 121. Obstipatio                              | 139. Exostosis.  |
| 92. Dysopia                                | ORDER III.  | 122. Ischuria                                | ORDER VII.   |
| 93. Pseudoblepsis                          | DYSCINESIÆ  | 123. Dysuria                                 | ECTOPIÆ  |
| 94. Dysecoea<br>95. Paracusis              | 108. Aphonia<br>109. Muthas                         | 124. Dyspermatismus                          | 140. Hernia<br>141. Prolapsus<br>142. Luxatio.           |
| 96. Anosmia                                | 110. Paraphonia                                     | 125. Amenorrhea.                             | 149 Luvatio  |
| 97. Agheustia                              | 111. Psellismus                                     | ORDER VI.<br>TUMORES.                        | ORDER VIII.  |
| 98. Anæsthesia.<br>Order II.<br>DYSOREXIÆ. | 112. Strabismus                                     | 196. Aneurisma                               | DYALYSES.  |
| ORDER II.                                  | 112. Strabismus<br>113. Dysphagia                   | 126. Aneurisma<br>127. Varix                 | 143. Vulnus  |
| DYSOREXIÆ.                                 | 114. Contractura.                                   | 128. Ecchymoma                               | 144. Ulcus   |
| § 1. Appetitus erronei.                    | URDER IV.   | 129. Scirrhus                                | 145. Herpes<br>146. Tinea<br>147. Psora<br>148. Fractura |
| 99. Bulunia                                | APOCENOSES. 115. Profusio                           | 130. Cancer<br>131. Bubo                     | 147 Paora  |
| 100. Polydipsia<br>101. Pica               | 116 Ephidrosis                                      | 132. Sarcoma                                 | 142 Fractura   |
| 102. Satyriasis                            | 117. Epiphora                                       | 133. Verruca                                 | 149. Caries.   |
| 103. Nymphomania<br>104. Nostalgia,        | 118. Ptyalismus                                     | 133. Verruca<br>134. Clavus                  |  |
| 104. Nostalgia.                            | 119. Enuresis                                       | 135. Lupia                                   |  |
|  | 0   |  |  |
|  | Synoptical View of                                  | the System of Sauvages.                      |  |
|  | CLASS   | IVITIA.                                      |  |
| ORDER I.                                   | 18. Furunculus                                      | 37. Lupia                                    | 58. Hysteroloxia   |
| MACULÆ.                                    | 19. Anthrax<br>20. Cancer                           | 38. Hydarthrus                               | 59. Parochidium  |
| Genus I. Leucoma                           | 20. Cancer<br>21. Paronychia                        | 39. Apostema<br>40. Exomphalus               | 60. Exarthrema   |
| 2. Vitiligo 3. Ephelis                     | 22. Phimosis.                                       | 41. Oscheocele.                              | 61. Diastasis<br>62. Laxarthrus.                         |
| 4. Guna rosea                              | OKDER IV.   | ORDER VI.                                    | ORDER VII.   |
| 5. Nævus                                   | EXCRESCENTIÆ.                                       | ECTOPIÆ.                                     | PLAGÆ.   |
| 6. Ecchymoma.                              | 23. Sarcoma   | 42. Exophthalmia                             | 63. Vulnus   |
| ORDER II.                                  | 24. Condyloma                                       | 43. Blepharoptosis                           | 63. Vulnus<br>64. Punctura                               |
| EFFLORESCENTLE                             | 25. Verruca<br>26. Pterygium                        | 44. Hypostaphyle<br>45. Paraglossa           | 65. Excoriatio   |
| 7. Herpes<br>8. Epinyetis                  | 27. Hordeolum                                       | 46. Proptoma                                 | 66. Contusio   |
| 9. Psydracia                               | 28. Bronchocele                                     | 47. Exania                                   | 67. Fractura<br>68. Fissura                              |
| 10. Hydroa.                                | 29. Exostosis                                       | 48. Exocyste<br>49. Hysteroptosis            | 69. Ruptura  |
| ORDER III.<br>HYMATA.                      | 30. Gibbositas                                      | 49. Hysteroptosis                            | 70 Amoutatura  |
| HYMATA.                                    | 31. Lordosis.                                       | 50. Enterocele                               | 71. Ulcus<br>72. Exulceratio<br>73. Sinus                |
| 11. Erythema                               | ORDER V.<br>CYSTIDES.                               | 51. Epiplocele<br>52. Gasterocele            | 72. Exulceratio  |
| 12. Œdema                                  | 32. Aneurisma                                       | 53. Hepatocele                               | 73. Sinus  |
| 13. Emphysema<br>14. Scirrhus              | 33. Varix   | 34. Spienocele                               | 74. Fistula<br>75. Rhagas                                |
| 15. Phlegmone                              | 34. Hydatis   | 55. Hysterocele                              | 76. Eschara  |
| 16. Bubo                                   | 35. Marisca   | 56. Cystocele<br>57. Encephalocele           | 77. Caries   |
| 17. Parotis                                | 36. Staphyloma                                      | 57. Encephalocele                            | 78. Arthrocace.  |

|  | NOSC                               | LUGY.   |   |
|--|------------------------------------|---|---|
|  | CLASS                              | II.—FEBRES.                                       |   |
| ORDER I.   | 82. Typhus                         | 85. Tritmonhya                                    | 88. Tertiana  |
| CONTINUÆ.  | 83. Hectica.                       | 85. Tritæophya<br>86. Tetartophya.                | 89. Quartana  |
| 79. Ephemera   | ORDER II.                          | ORDER III.<br>INTERMITTENTES.                     | 90. Erratica.                                       |
| 80. Synocha  | REMITTENTES.                       | INTERMITTENTES.                                   |   |
| 81. Synochus   | 84. Amphimerina                    | 87. Quotidiana                                    |   |
|  | CLASS III.—                        | PHLEGMASIÆ.                                       |   |
| ORDER I.<br>EXANTHEMATICÆ.                             | 97. Ervsipelas                     | 103. Pleuritis                                    | 109. Cephalitis                                     |
| EXANTHEMATICÆ.   | 98. Scarlatina<br>99. Essera       | 104. Gastritis                                    | 110. Cynanche<br>111. Carditis                      |
| 91. Pestis<br>92. Variola                              | 99. Essera                         | 105. Enteritis<br>106. Epiploitis                 | 111. Carditis                                       |
| 93. Pemphigus  | 100. Aphtha. ORDER II.             | 107. Metritis.                                    | 112. Peripneumonia<br>113. Hepatitis                |
| 94. Rubeola  | MEMBRANACEÆ.                       | ORDER III.  | 114. Splenitis                                      |
| 94. Rubeola<br>95. Miliaris<br>96. Purpura             | 101. Phrenitis                     | ORDER III.<br>PARENCHYMATOSÆ                      | . 115. Nephritis.                                   |
| 96. Purpura  | 102. Paraphrenesis                 | 108. Cystitis                                     |   |
|  | CLASSI                             | V.—SPASMI.  |   |
| ORDER I.   | ORDER II.                          | 196 Pandiculatio                                  | ORDER IV.   |
| TONICI PARTIALES.                                      | TONICI GENERALES.                  | 127. Apomyttosis                                  | CLONICI GENERALES                                   |
| 116. Strabismus<br>117. Trismus                        | 122. Tetanus                       | 127. Apomyttosis<br>128. Convulsio<br>129. Tremor | 132. Rigor<br>133. Eclampsia                        |
|  | 123. Catochus.                     | 129, Tremor                                       | 133. Eclampsia                                      |
| 118. Obstipitas<br>119. Contractura                    | ORDER III.<br>CLONICI PARTIALES    | 130. Palpitatio                                   | 134. Epilepsia<br>135. Hysteria<br>136. Scelotyrbe  |
| 120. Crampus   | 124. Nystagmus                     | . 131. Claudicatio.                               | 136. Scelotyrbe                                     |
| 121. Priapismus.                                       | 125. Carphologia                   |   | 137. Beriberia.                                     |
| 100  |                                    | NUEL ATIONES                                      |   |
| ORDER I.   | 141. Singultus                     | NHELATIONES.<br>144. Dyspnæa                      | 149. Rheuma   |
| SPASMODICÆ.  | 142. Tussis.                       | 145. Asthma                                       | 150. Hydrothorax                                    |
| 138. Ephialtes<br>139. Sternutatio                     | ORDER II.<br>OPPRESSIVÆ.           | 146. Orthopnæa                                    | 151. Empyema.                                       |
| 139. Sternutatio                                       | OPPRESSIVÆ.                        | 147. Angina                                       |   |
| 140. Oscedo  | 143. Stertor                       | 148. Pleurodyne                                   |   |
|  | CLASS VI.—                         | DEBILITATES.                                      |   |
| ORDER I.   | 161. Anæsthesia.                   | 168. Paraphonia                                   | ORDER V.  |
| DYSÆSTHESLÆ.   | ORDER II.                          | 169. Paralysis                                    | COMATA.   |
| 152. Cataracta<br>153. Caligo                          | ANEPITHYMIÆ.                       | 170. Hemiplegia                                   | 176. Catalepsis                                     |
| 154 Amblyopia  | 162. Anorexia<br>163. Adipsia      | 171. Paraplexia. ORDER IV.                        | 177. Ecstasis                                       |
| 155. Amaurosis   | 164. Anaphrodisia.                 | LEIPOPSVCHLÆ.                                     | 179. Lethargus                                      |
| 156 Anosmia  | ORDER III.<br>DYSCINESIÆ.          | 172. Asthenia                                     | 178. Typhomania<br>179. Lethargus<br>180. Cataphora |
| 157. Agheustia<br>158. Dysecœa                         | DYSCINESIÆ.                        | 172. Asthenia<br>173. Leipothymia                 | 181. Carus  |
| 158. Dysecœa   | 165. Mutitas                       | 174. Syncope                                      | 182. Apoplexia.                                     |
| 150. Paracusis<br>160. Cophosis                        | 166. Aphonia<br>167. Psellismus    | 175. Asphyxia.                                    |   |
| too. Copnosis  |                                    |   |   |
|  | CLASS VII                          | DOLORES.  |   |
| ORDER I.   | ORDER II.                          | 201. Cardiogmus.                                  | ORDER V.<br>EXTERNIET ARTUUM                        |
| VAGI.  | CAPITIS<br>193. Cephalalgia        | ORDER IV.   | 910 Mastodynia                                      |
| 183. Arthritis<br>184. Ostocopus                       | 194. Cephalæa                      | ABDOMINALES IN-<br>TERNI.                         | 210. Mastodynia<br>211. Rachialgia                  |
| 185. Rheumatismus                                      | 195. Hemicrania                    | 202. Cardialgia                                   | 212. Lumbago  |
| 186. Catarrhus   | 196. Ophthalmia                    | 203. Gastrodynia<br>204. Colica                   | 213. Ischias  |
| 187. Anxietas  | 197. Otalgia                       | 204. Colica                                       | 214. Proctalgia                                     |
| 188. Lassitudo<br>189. Stupor                          | 198. Odontalgia.<br>Order III.     | 205. Hepatalgia<br>206. Splenalgia                | 215. Pudendagra.                                    |
| 190. Pruritus  | PECTORIS                           | 207. Nephralgia                                   |   |
| 191. Algor<br>192. Ardor.                              | 199. Dysphagia                     | 208. Dystocia                                     |   |
| 192. Ardor.  | 200 Pyrosis                        | 209. Hysteralgia.                                 |   |
|  | CLASS VII                          | .—VESANIÆ.  |   |
| ORDER I.   | ORDER II.                          | 229. Nymphomania                                  | 236. Dæmonomania.                                   |
| ORDER I.<br>HALLUCINATIONES.                           | ORDER II.<br>MOROSITATES.          | 229. Nymphomania<br>230. Tarantismus              | ORDER IV.   |
| 216. Vertigo   | 222. Pica                          | 231. Hydrophobia.                                 | VESANIÆ ANOMALÆ                                     |
| 217. Suffusio  | 223. Bulimia                       | ORDER III.  | 237. Anmesia<br>238. Agrypnia.                      |
| 218. Diplopia<br>219. Syrigmos                         | 224. Polydipsia<br>225. Antipathia | DELIRIA.  | 23c. Agrypma.                                       |
| 220. Hypochondriasis                                   | 226. Nostalgia                     | 232. Paraphrosyne<br>233. Amentia                 |   |
| 221. Somnambulismus.                                   | 227. Panophobia                    | 234. Melancholia                                  |   |
|  | 228. Satyriasis                    | 234. Melancholia<br>235. Mania                    |   |
|  |                                    | FLUXUS.   |   |
| ORDER T.   | 247. Hæmorrhois                    | ORDER III.  | 267. Leucorrhæa                                     |
| ORDER I.<br>SANGUIFLUXUS.                              | 247. Hæmorrhois<br>248. Dysenteria | SERIFLUXUS.                                       | 267. Leucorrhæa<br>268. Gonorrhæa                   |
| 239. Hæmorrhagia                                       | 249, Mehena                        | 258. Ephidrosis                                   | 269. Dyspermatismus                                 |
| 240. Hæmoptysis  | 250. Nausea                        | 259. Epiphora                                     | 270. Galactirrhæa<br>271. Otorrhæa.                 |
|  | 251. Vomitus<br>252. Ileus         | 260. Coryza<br>261. Ptyalismus                    | ORDER IV.   |
| 243. Hamaturia   | 253. Cholera                       | 969 Anacatharsis                                  | AFRIFITIVIS   |
| 242. Hamatemesis<br>243. Hamaturia<br>244. Menorrhagia | 254. Diarrhea                      | 262. Anacatharsis<br>263. Diabetes                | 272. Flatulentia                                    |
| 245. Abortus.  | 255. Cœliaca                       | 264. Emiresis                                     | 273. Ædopsophia                                     |
| ORDER II.<br>ALVIFLUXUS.                               | 256. Lienteria                     | 265. Dysuria                                      | 274. Dysodia.                                       |
| ALVIFLUXUS.  | 257. Tenesmus                      | 266. Pyuria                                       |   |
| 246. Hepatirrhœa                                       |                                    |   |   |
| CLASS X.—CACHEXIÆ.                                     |                                    |   |   |
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| HALLUCINATIONES<br>328. Vertigo  | 334. Pica  | 341. Nymphomania<br>342. Tarantismus  | 348. Demonomania  |
| 329 Suffusio   | 335. Bulimia   | 343. Hydrophobia  | 349. Mania.   |
| 329. Suffusio<br>330. Diplopia   | 330. Polydinsia  | 344. Rabies.  | ORDER IV.   |
| 331. Syrigmos<br>332. Hypochondriasis  | 337. Antipathia<br>338. Nostalgia  | ORDER III.  | ANOMALÆ.  |
| 332. Hypochondriasis   | 338. Nostalgia   | DELIRIA.  | 350. Amnesia<br>351. Agrypnia.  |
| 333. Somnambulismus.   | 339. Panophobia  | 345. Paraphrosyne   | 351. Agrypnia.  |
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| ORDER I.   | 12. Rheumatism   | 29. Eclampsia   | 40. Melancholia,  |
| FEVERS.  | 13. Ostocopus  | 30. Hieranosos.   | ORDER IX.   |
| 1. Continued   | 14. Headache<br>15. Toothache  | ORDER VI.<br>WEAKNESSES AND   | CACHEXIES, or Humoral   |
| 2. Intermittent 3. Remittent   | 16. Earache  | PRIVATIONS.   | Diseases. 41. Corpulency  |
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| 5. Hectic.   | 17. Pleurodyne<br>18. Pain in the stomach  | 32. Palsy   | 43. Jaundice  |
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| INFLAMMATIONS.   | 20. Lithiasis  | ORDER VII.  | 45. Tympany   |
| 6. External  | 21. Ischuria   | ASTHMATIC DISOR-  | 47. Atrophia  |
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| ORDER III.<br>FLUXES.  | ORDER V.<br>SPASMODIC DISEASES   | 34. Dysphæa<br>35. Orthonnæa  | 49. Sarcostosis   |
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| 9. Hæmorrhage  | 24. Catochus   | 36. Asthma<br>37. Hydrothorax   | 51 Scurry   |
| 10. Humoral discharge.   | 25. Locked jaw   | 38. Empyema. ORDER VIII.  | 52. Scrofula  |
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| 56. Hypochondriasis  | 75. Coryza   | heart   | 122. Herpes   |
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| ORDER II.  | 77. Anacatharsis   | 100. Trismus  | 124. Alopecia<br>125. Trichoma  |
| 57. Loss of judgment. ORDER II. OF THE EXTERNAL  | 78. Otorrhæa   | 100. Trismus<br>101. Nystagmus<br>102. Cramp  | 125. Trichoma   |
| SENSES.  | 79. Diarrhæa   | 102. Cramp  | 126. Scald head   |
| 58. Blindness  | 80. Incontinence of urine.<br>81. Pyuria   | 104 Contraction   | 127. Phthiriasis. ORDER VII.  |
| 59. Depraved sight<br>60. Deafness   | 82. Dysuria  | 104. Contraction<br>105. Paralysis  | DISLOCATIONS.   |
| 61. Depraved hearing   | 83. Constipation   | 106. Anchylosis   | 128. Hernia   |
| 62. Loss of smell  | 84. Tenesmus   | 107. Gibbositas   | 129. Prolapsus  |
| 63. Depraved smell   | 85. Dysodia  | 108. Lordosis   | 130. Luxation.  |
| 64. Loss of taste  | SG Flatulanca  | 109. Hydarthrus.  | ORDER VIII.   |
|  | 86. Flatulence   |   |   |
| 65. Depraved taste   | 87. Ædopsophia.  | OF THE EVTERNAL   | SOLUTIONS OF COM  |
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| 65. Depraved taste 66. Loss of feeling, ORDER III. OF THE APPETITES. 67. Anorexia 68. Cynorexia 69. Pica 70. Polydipsia 71. Satyriasis 72. Nymphomania | 87. Ædopsophia. Order V. IMPEDING DIFFER-<br>ENT ACTIONS. 88. Aphonia 89. Mutitas 90. Paraphonia 91. Dysphagia 92. Wry neck 93. Angone | ORDER VI. OF THE EXTERNAL HABIT. 110. Tumour 111. Excrescence 112. Aneurism 113. Varix 114. Papulæ 115. Phiyetenæ 116. Pustulæ 117. Scabies, or Psora | 131. Wound 132. Ulcer 133. Fissure 134. Fistula 135. Burn, or scald 136. Excoriation 137. Fracture 138. Caries. |

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| 151. Cirsocele. 155. Menorrhagia 1<br>ORDER III. GENERAL, 156. Hysteralgia   | 61. Mastodynia. 165. Physometra ORDER IV. 166. Prolapsus uterl OCAL, propur to Women. 167. — vaginæ  |  |
| proper to Women. 157. Graviditae   | OCAL, proper to Women. Int vagine  |  |
| 153. Chlorosis 159. Dystochia  | 62. Hydrops ovarii 168. Polypus uten.<br>63. Scirrhus ovarii   |  |
| 154. Leucorrhœa 160. Febris puerperalis  | 64. Hydrometra   |  |
| CI ACC IN INDA   | VTILE DISEASES.  |  |
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| 169. Colica meconialis 173. Eclampsia 170. Colica lactentium 174. Atrophia 171. Distribusi infantum  | 76. Imperforation 180. Crusta lactea.<br>77. Anchyloglossum  |  |
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| CLASS I. CŒLIACA. Diseases of the Digestive  |  |  |
| Function.  |  |  |
| ORDER 1. ENTERICA. Affecting the alimentary canal. Genus 1. ODONTIA. Misdentition.   | 2. chololithicus. Gallstone jaundice.  |  |
| Species 1. O. dentitionis. Teething.   | 2. chololithicus. Gallstone jaundice. 3. I. spasmodicus. Spasmodic jaundice. 4. I. hepaticus. Hepatic jaundice. 5. I. infantum. Jaundice of Infants.   |  |
| Species 1. O. dentitionis. Teething. 2. O. dolorosa. Toothache. 3. O. stuporis. Tooth-edge.  | 5. I. infantum. Jaundice of Infants.   |  |
| 3. O. stupons. Tooth-edge. 4. O. deformis. Deformity of the teeth.   | Genus 2. Melena. Melena. Species 1. M. cholœa. Black or green jaundice. 2. M. cruenta. Black vomit.  |  |
| 4. O. deformis. Deformity of the teeth. 5. O. dedentula. Toothlessness. 6. O. incrustans. Tartar of the teeth. 7. O. excrescens. Excrescent gums. Gents 2. Pryactisates. Physikism.  | 2. M. cruenta. Black vomit.  |  |
| 6. O. incrustans. Tartar of the teeth.   | Gems 3. Childelth 18. Gall-stone.  Species 1. C. quiescens. Quiescent gall-stone.  2. C. means. Passing of gall-stones.  Gens 4. Parabisma. Visceral turgescence.  Species 1. P. hepaticum. Turgescence of the liver.  2. P. splenieum. Turgescence of the spleen.  3. P. pancreaticum. Turgescence of the pan   |  |
| Genus 2. PTYALISMUS. Pivalism.   | 2. C. means. Passing of gall-stones.   |  |
| Species 1. P. acutus. Salivation. 2. P. chronicus. Chronic ptyalism. 3. P. iners. Drivelling.  | Genus 4. PARABISMA. Visceral turgescence.  |  |
| 2. P. chronicus. Chronic ptyansm.  | 2 P. splenicum. Turgescence of the spleen.   |  |
| Genus 3. Dysphagia. Dysphagy.  | 3. P. pancreaticum. Turgescence of the pan   |  |
| Species 1. D. constricta. Constrictive dysphagy.   | creas. 4. P. mesentericum. Turgescence of the me-  |  |
| 3. D. globosa. Nervous quinsy.   | sentery  |  |
| Genus 3. Dysphagy. Species I. D. constricta. Constrictive dysphagy. 2. D. atonica. Atonic dysphagy. 3. D. globosa. Nervous quinsy. 4. D. uvuloså. Uvula dysphagy. 5. D. linguosa. Lingual dysphagy.  | 5. P. intestinale. Turgescence of the intestines.  |  |
| Genus 4. Divsosts. Morbid thirst.  | <ul> <li>5. P. intestmale. Turgescence of the intestines.</li> <li>6. P. omentale. Turgescence of the omentum.</li> <li>7. P. complicatum. Turgescence compounded</li> </ul>   |  |
| Species 1. D. avens. Immoderate thirst.  | of various organs.   |  |
| Conve 5 Linestes Morbid appetite   | CLASS H PNEUMATICA. Diseases of the Respi-   |  |
| Species 1. L. avens. Voracity.   | ratory, Function. ORDER 1. PHONICA. Affecting the vocal avenues. Genus 1. Coryza. Running at the nose.   |  |
| 5. D. linguosa. Lingual dyspliagy.  Genus 4. Diesosts. Morbid thirst.  2. D. expers. Immoderate thirst.  2. D. expers. Thirstlessness.  Genus 5. Linguist. Morbid appetite.  Species 1. L. avens. Voracity.  2. L. expers. Long fasting.  3. L. pica. Depraved appetite.  4. L. cardialgica. Heartburn. Waterbrash.  5. L. flatus. Flatulency. | Species I. Coryza. Running at the nose.  |  |
| 4. L. cardialgica. Heartburn. Waterbrash.  | 2. C. atonica. Atonic coryza.  |  |
| & I amagia Gialmage Vamiting   | Genus 1. Corva. Running at the nose. Species 1. C. entonica. Entonic coryza. 2. C. atonica. Atonic coryza. Species 1. P. elasticus. Compressible polypus. 2. P. coraccus. Cartilaginous polypus. Genus 3. Runnenus. Ratting in the throat. Species 1. R. stertor. Snoring. 2. R. cerchnus. Wheezing. Genus 4. Aprionia. Dumbness. Species 1. A. clinguigum. Elingual dumbness. |  |
| Genus 6. Collea. Colic. Species 1. C. theus. Hac passion. 2. C. thuchitatica. Painter's colic.   | 2. P. coriaceus. Cartilaginous polypus.  |  |
| Genus 6. Colica. Colic.  | Genus 3. RHONCHUS. Rattling in the throat.   |  |
| Species I. C. Ileus. Hiac passion.  2. C. rhachialgica. Painter's colic.  3. C. cibaria. Surfeit.  | 2. R. cerchnus. Wheezing.  |  |
| 2. C. Friaemangea. Painter's cone. 3. C. cibaria. Surfeit. 4. C. fatulenta. Wind-colic. 5. C. constipata. Constipated colic. 6. C. constricta. Constrictive colic.   | Genus 4. APHONIA. Dumbness.  |  |
| 5. C. constinata. Constinated colic.   | Species 1. A. elinguium. Elingual dumbness. 2. A. atonica. Atonic dumbness.  |  |
| 6. C. constricta. Constrictive colic.  | 3. A. surdorum. Deaf dumbness.  Genus 5. Dysphonia. Dissonant voice.   |  |
| Species 1 C. constinata Constination.  | Species 1. D. Susurrans. Whispering voice.   |  |
| Genus 7. Copostratris. Costiveness.  Species 1. C. constipata. Constipation.  2. C. obstipata. Obstipation.  Genus 8. Divernica. Looseness.  Species 1. D. fusa. Feculent looseness.  Blicus loconyers.  Elizar loconyers.   | Species 1. D. susurrans. Whispering voice. 2. D. puberum. Voice of puberty.  |  |
| Genus 8. Diarrhea. Looseness.  | 3. D. immodulata. Immelodious voice.  Genus 6. Perlismus. Dissonant speech.  Species 1. P. bambalia. Stammering.  2. P. blæsitas. Misenunciation.  |  |
| 2. D. biliosa. Bilious looseness.  | Species I. P. bambalia. Stammering.  |  |
| 3. D. mucosa. Mucous looseness.  | 2. P. blæsitas. Misenunciation.  |  |
| 2. D. biliosa. Bilious looseness. 3. D. mucosa. Mucous looseness. 4. D. chylosa. Chylous looseness. 5. D. lienteria. Lientery. 6. D. serosa. Serous looseness.   | ORDER 2. PNEUMONICA. Affecting the lungs, their membranes, or motive power.  |  |
| 6. D. serosa. Serous looseness.  | Genus I. Bex. Cough.   |  |
| 6. D. settless. Sections consequences. 7. D. tabulosa. Tabular looseness. 8. D. gypsata. Gypseous looseness. Genus 9. Chollega. Cholera. Species 1. C. billosa. Billous cholera. C. Gattlengta. Eliquipat cholera.   | Species 1. B. humida. Common or humid cough. 2. B. sicca. Dry cough.   |  |
| Genus 9. CHOLERA. Cholera.   | 3. B. convulsiva. Hooping-cough.   |  |
| 2. C. flatulenta. Flatulent cholera.   | 3. B. convulsiva. Hooping-cough.  Genus 2. Laryngismus. Laryngic suffocation.  Species 1. L. stridulus. Stridulus construction of the  |  |
| 2. C. flatulenta. Flatulent cholera. 3. C. spasmodica. Spasmodic cholera.  | Jarynx.  |  |
| Genus 10. Enterolithus. Intestinal concretions.  | Genus 3. Dyspnga. Anhelation.<br>Species 1. D. chronica. Short-breath.   |  |
| Species I. E. bezoardus. Bezoar.  2. E. calculus. Intestinal calculus.  3. E. carbalam. Scybalum.  | 9 D avacarbana Evacarbating anhalation   |  |
| J. E. Scybatum. Scybardin.   | Genus 4. ASTHMA. Asthma.   |  |
| Genus 11. HELMINTHIA. Worms.<br>Species 1. H. alvi. Alvine worms.  | Genus 4. ASTHMA. Asthma. Species I. A. Siccum. Dry or nervous asthma. Genus 5. Ephlattes. Incubus. Species I. E. vicilantium. Playmage.  |  |
| Species 1. H. alvi. Alvine worms. 2. H. podicis. Anal worms. 3. erratica. Erratic worms.   | Genus 5. EPHIALTES. Incubus.   |  |
| Genus 12. PROCTICA. Proctica.  | Species I. E. vigilantium. Day-mare.  2. E. nocturnus. Night-mare.  Genus 6. STERNALGIA. Suffocative breast-pang.  |  |
| Genus 12. Proctica. Proctica.  Species 1. P. simplex. Simple proctica.   | Genus 6. STERNALGIA. Suffocative breast-pang.  |  |
| Z. P. spasinouica. Spasinouic surceite of the  | Species I. S. ambulantium. Acute breast-pang.  |  |
| 2 P calloga Callons stricture of the rectum.   | Species 1. S. ambulantium. Acute breast-pang. 2. S. chronica. Chronic breast-pang. Genus 7. PLEURALGIA. Pain in the side.  |  |
| 4. P. tenesmus. Tenesmus.  | Species I. P. acuta. Stitch.   |  |
| 4. P. tenesmus. Tenesmus. 5. P. marica. Piles. 6. P. exania. Prolapse of the fundament.  | Species 1. P. acuta. Stitch.  2. P. chronica. Chronic pain in the side.  CLASS III. HEMATICA. Diseases of the San-   |  |
| ORDER 2. SPLANCHNICA. Affecting the containious  |  |  |
| viscera.   | ORDER 1. PYRETICA. Fevers  |  |

| NOSOL  | OGY.   |
|--|--|
| Genus 1. EPHEMERA. Diary fever.  | Genus 11. BUCNEMIA. Tumid leg. Species 1. B. sparganosis. Puerperal tumid leg.   |
| Genus 1. EPHEMERA. Diary fever.  Species 1. E. mitis. Mild diary fever.  2. E. acuta. Acute diary fever.   | Species 1. B. sparganosis. Puerperal tumid leg. 2. B. tropica. Tumid leg of hot climates.  |
|  | Genus 12. ARTHROSIA. Articular inflammation.   |
| C A Assessmenting fover Ague.  | Species 1. A. acuta. Acute rheumatism.   |
| Genus 2. Arktus. Intermiting level. Figure.  Species 1. A. quotidianus. Quotidian ague.  2. A. tertianus. Terrian ague.  3. A. quartanus. Quartan ague.  4. A. erraticus. Irregular ague.  5. A. complicated ague.   | 2. A. chronica. Chronic inflammation. 3. A. podagra. Gout. 4. A. hydarthrus. White-swelling.   |
| 2. A. tertianus. Tertian ague.   | 4. A. hydarthrus. White-swelling.  |
| 4. A. erraticus. Irregular ague.   | ORDER 3. EXANTHEMATICA. Eruptive levers.   |
| 5. A. complicatus. Complicated ague.   | anthems.  Genus 1. Exanthesis. Rash exanthem.  Species 1. E. rosalia. Scarlet fever  |
| Genus 3. Epanerus. Remittent lever.  | Species 1. E. rosalia. Scarlet fever 2. rubeola. Measles.  |
| Genus 3. Erangrus. Remittent fever. Species 1. E. milis. Mild remittent. 2. E. malignus. Malignant remittent. 3. E. hectica. Hectic fever.   | 2. I u Decia. Medica.  |
| 3. E. hectica. Hectic fever.   | 3. E. urticaria. Nettle-rash.  Genus 2. Emphlysis. Achorous exanthem.  |
| Genus 4. Enecia. Continued fever.  | Species 1. E. miliaria. Miliary fever.   |
| 2. E. typhus. Typhous fever.   | 2. E. aphtha. Thrush. 3. E. vaccina. Cow-pox.  |
| Genus 4. Enecta. Commune lever.  Species 1. E. cauma. Inflammatory fever. 2. E. typhus. Typhous fever. 3. E. synochus. Synochal fever.  Order 2. Philogistica. Inflammations.  | 4. E. varicella. Water-pox. 5. E. pemphigus Vesicular fever.   |
| ORDER 2. Pulogistica. Inflammations.  Genus 1. Apostema. Aposteme.  Species 1. A. commune. Common aposteme.  2. Aposaticum. Psoas abscess.  2. Aposaticum. Psoas abscess.  | 4. E. varicella. Water-pox. 5. E. pemphigus Vesicular fever. 6. E. erysipelas. St. Anthony's fire. Genus 3. Enyrests. Pustulous exanthem. Species 1. E. variola. Smallpox. Genus 4. Avrenacta. Carbuncular exanthem. |
| Species 1. A. commune. Common aposteme.  | Genus 3 Empyrais. Pustulous exanthem.  |
| 2. Apsoaticum. Psoas abscess. 3. A. hepaticum. Abscess of the liver.   | Species 1. E. variola. Smallpox.   |
| 3. A. hepaticum. Abscess of the liver. 4. A. empyema. Lodgment of matter in the  | Genus 4. Anthracia. Carbuncular exanthem.  |
| chest.   | Species 1. A. pestis. Plague.  2. A. rubula. Yaws.   |
| 5. A vomica. Vomica.   | ORDER 4. DYSTHETICA. Cachexies.  Genus 1. PLETHORA. Plethora.  Species 1. P. entenica. Sanguineous plethora.  2. P. atonica. Serous plethora.  |
| Genus 2. Prikemone. Phlegmon Species 1. P. communis. Common phlegmon. 2. P. parulis. Gum-boil 3. P. auris. Imposthume of the ear. 4. P. parulise. Parauli phlegmon.  | Genus 1. PLETHORA. Plethora.   |
| 2. P. parulis. Gum-boil.   | 2. P. atonica. Serous plethora.  |
| 4 P. paretidea. Parotid phlegmon.  | Genus 2. Hæmorrhagia. Hemorrhage.<br>Species 1. II. entonica. Entonic hemorrhage.  |
| 4. P. parotidea. Parotid phlegmon. 5. P. mammæ. Abscess of the breast.   | Species 1. II. entonica. Entrene nemorrhage.   |
| 6. P. bubo. Bubo.  | Genus 3. Marasmus. Emaciation.   |
| 6. P. bubo. Bubo. 7. P. phimotica. Phimotic phlegmon. 1 Genus 3. Phyma. Tubercle.  | Genus 3. Marasmus. Emaciation.  Species 1. M. atrophia. Atrophy. 2. M. climactericus. Decay of nature.   |
| Species 1. P. hordeolum. Sty. 2. P. furunculus. Boil.  | 2. M. climactericus. Decay of nature. 3. M. Tabes. Decline.  |
| 2. P. lurunculus. Boll. 3. P. svcosis. Ficous phyma.   | 4 M phthisis, Consumblion  |
| 3. P. sycosis. Ficous phyma. 4. P. anthrax. Carbuncle. Genus 4. Ionthus. Whelk.  | Genus 4. STRUMA. Scrofula.   |
| Genus 4. Ionthus. Whelk.   | Genus 5. Carcinus Cancer.  |
| Genus 4. IONTHUS. Whelk. Species 1. I. varus. Stone pock. 2. I. corymbyfer. Carbunculated face. Rosy   | Genus 4. Struma. Schland. Species I. S. vulgaris. King's evil. Genus 5. Carcinus Cancer. Species I. C. vulgaris. Common cancer. Genus 6. Lues. Venereal disease.   |
|  | Genus 6. Lues. Venereal disease.  Species 1. L. syphilos. Pox.  2. L. syphilodes. Bastard pox.  Genus 7. Elephantiasis. Elephantissis.  Consist 1. Engage Arabian elephantissis.                                     |
| Genus 5. Phlysis. Phlysis. Species 1. P. paronychia. Whitlow. Genus 6. ERYTHEMA. Inflammatory blush. Genus 6. ERYTHEMA. Edematous inflamma-  | 2. L. syphilodes. Bastard pox.   |
| Genus 6. ERYTHEMA. Inflammatory blush.   | Species 1. E. arabica. Arabian elephantiasis. Black  |
| Species 1. E. Guerratosum.   | leprosy.   |
| 2. E. erysipelatosum. Esysipelatous inflam-  | 2. E. italica. Italian elephantiasis.  |
| mation. 3. E. gangrenosum. Gangrenous inflamma-  |  |
| tion.  | Species 1. C. ebriosa. Enebriate catacausis.   |
| 4. E. vesiculare. Vesicular inflammation. 5. E. pernio. Chilblain.   | Genus 9. Porphyra. Scurvy. Species 1. P. simplex. Petechial scurvy.  |
| 5. E. pernio. Chiblain.  | 2. P. hæmorrhagica. Land-scurvy. 3. P. nautica. Sea-scurvy. Genus 10. Exangia. Exangia.  |
| 6. E. pernio. Chibban. 6. E. entertrigo. Fret. Genus 7. Empresma. Visceral inflammation of the brain. Species 1. E. cephalites. Inflammation of the ear.   | 3. P. nautica. Sea-scurvy.   |
| Species 1. E. cephalites. Inflammation of the brain.   | Species 1. E. aneurisma. Aneurism.   |
| 2 F parotitis Mumps.   | Species 1. E. aneurisma. Aneurism. 2. E. varix. Varix.   |
| 4 E. parithmitis. Quincy.  | 3. E. cyania. Blue-skin.   |
| 4 E. parithmitis. Quincy. 5. E. laryngitis. Inflammation of the larynx 6. E. bronchitis. Croup.  | Genus 11. GANGRENA. Gangrene. Species 1. G. sphacelus. Mortification.  |
|  | 2. G. ustilaginea. Mildew-mortineauon.   |
| 8. E. pleuritis. Pleurity 9. E. carditis. Inflammation of the heart.   | 2. G. ustilaginea. Mildew-mortification. 3. G. necrosis. Dry-gangrene. 4. G. caries. Caries.   |
| 10. E. peritonitis. Inflammation of the perito   |  |
| neum.  | Species I. U. incarnans. Simple hearing diece.   |
| 11. E. gastritis. Inflammation of the stomach 12. E. enteritis. Inflammation of the bowels. 13. E. hepatitis. Inflammation of the liver. 14. E. splenitis. Inflammation of the spleen. 15. E. nephritis. Inflammation of the kidney. 16. E. cystitis. Inflammation of the bladder. | Species 1. U. incarnans. Simple healing ulcer. 2. U. vitiorum. Depraved ulcer. 3. U. sinuosum. Sinuous ulcer. Western Western Western Excrescen  |
| 13. E. hepatitis. Inflammation of the liver.   | 4. U. tuberculosum. Warty. Excrescen   |
| 14. E. splenitis. Inflammation of the spleen.  | ulcer. 5. U. cariosum. Carious ulcer.  |
| 16 E cystitis. Inflammation of the bladder.  | 5. U. cariosum. Carious ulcer. CLASS IV. NEUROTICA. Diseases of the  |
| 11. Es. Hysteritis.  | Nervous Function.  Ones 1 Parente Affecting the intellect.   |
|  | Craziness.   |
| Genus 8. OPHTHALMIA. Ophthalmy. Species 1. O. taraxis. Lachrymose ophthalmy. 2. O. iridis. Inflammation of the iris.   | Species I. L. Modules  |
| 2. O. iridis. Inflammation of the iris.  | 2. E. mania. Madness.  Genus 2. EMPATHEMA. Ungovernable passion.  Species 1. E. entonicum. Empassioned excitement. 2. E. atonicum. Empassioned depression.   |
| 3. O. purulenta. Purulent opninamy.  | Species 1. E. entonicum. Empassioned excitement.   |
| 5. O. chronica. Lippitude. Blear-eye.  |  |
| 2. O. iridis. Inflammation of the iris. 3. O. purulenta. Purulent ophthalmy. 4. O. glutinowa. Glutinous ophthalmy. 5. O. chronica. Lippitude. Blear-eye. 1 Genue 9. CATARRHUS. Catarrh. Buecies 1. C. communis. Cold in the head or chest.   | Conuc 3 ALUSIA. Illusion.  |
| Species 1. C. communis. Cold in the near of chest.   | Species I. A. ciatio. Sentimentarism.  |
| Genus 10. DYSENTERIA. dysentery.   | travagance. 2. A. hypochondriasis. Hypochondrism. Low  |
| Genus 9. CATARRHUS. Catarm.  Species 1. C. communis. Cold in the head or chest.  2. C. epidemicus. Influenza.  Genus 10. Dysenteria. dysentery.  Species 1. D. simple. Simple Dysentery.  2. D. pyretica. Dysenteric fever.  | spiritedness.  |
| Z. D. pyrencz. Dyschiero tovo.   | 121  |
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| NOSOLOGY.  |  |  |
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| Genus 4. APHLIXIA. Revery.   | Species I. C. gravans. Stupid headache. 2. C. intensa. Chronic headache. 3. C. hemorania. Megrum. 4. C. pulsatths. Throbbing headache. 5. C. nauscosa. Sick headache.  |  |
| Species 1. A. socore. Absence of mind. 2. A. intenda. Abstraction of mind.   | 2. C. intensa. Chronic headache.   |  |
| 3. A. otiosa. Brown study.   | 4. C. pulsatilis. Throbbing headache.  |  |
| Genus 5. PARONIRIA. Sleep-disturbance.   |  |  |
| 2. P. loquens. Sleep-talking.  | Species 1. D. vertigo. Vertigo.  |  |
| Species 1. P. ambulans. Sleep-usuroance. Species 1. P. anbulans. Sleep-walking. 2. P. loquens. Sleep-talking. 3. P. salax. Night pollution. Genus 6. Monta. Fatuity. Species 1. M. imbecilits. Imbecility. 2. M. demens. Irrationality.  | Genus 3. D. vertigo. Vertigo. Species 1. D. vertigo. Species 2. S. simplex. Swooning. Species 2. S. recurrens. Fainting fit.   |  |
| Species 1. M. imbecillis. Imbecility.  | 2. S. recurrens. Fainting fit.   |  |
| 2. M. demens Irrationality.  | Genus 7. Syspasia. Comatose spasm.<br>Species 1. S. convulsio. Convulsion.   |  |
| Order 2. Æsthetica. Affecting the sensation.  Genus 1. Paropsis. Morbid-sight.  Species 1. P. lucifuga. Night-sight.   | 2. S. hysteria. Hysterics.<br>3. S. epilepsia. Epilepsy.   |  |
| Species 1. P. lucifuga. Night-sight.   | 3. S. epilepsia. Epilepsy.  Genus 8. Carus. Torpor.  |  |
| 2. P. noctifuga. Day-sight. 3. P. longinqua. Long-sight.   | Species 1. C. asphyxia. Asphyxy. Suspended ani-  |  |
| 4. P. propinqua. Short-sight. 5. P. lateralis. Skew-sight. 6. P. illusoria. False-sight. 7. P. caligo. Opaque cornea. 8. P. glaucosis. Humeral opacity. 9. P. cataracta. Cataract. 10. P. symizesis. Closed pupil. 11. P. amaurosis. Drop screne. 19. P. stamburan Propingration | mation. 2. C. ecstasis. Ecstacy.   |  |
| 6. P. illusoria. False-sight.  | 2. C. ecstasis. Catalepsy. 3. C. catalepsia. Catalepsy. 4. C. lethargus. Lethargy. 5. C. apoplexia. Apoplexy. 6. C. paralysis. Palsy. CLASS V. GENETICA.—Diseases of the Sexual  |  |
| 7. P. caligo. Opaque cornea.   | 4. C. lethargus. Lethargy. 5. C. anoplexia. Apoplexy.  |  |
| 9. P. cataracta. Cataract.   | 6. C. paralysis. Palsy.  |  |
| 10. P. synizesis. Closed pupil.  | CLASS V. GENETICA.—Diseases of the Sexual Function,  |  |
|  | ORDER 1. CENOTICA. Affecting the fluids.   |  |
| 13. P. stabismus. Squinting.  Genus 2. Paracusis. Morbid hearing.  | Genus 1. Paramenia. Mismonstruction.  Species 1. P. obstructionis. Obstructed menstruction.  |  |
| Species 1. P. acris. Acute hearing. 2. P. obtusa. Hardness of hearing.   | 2. P. difficilis. Laborious menstruation.  |  |
| 2. P. obtusa. Hardness of hearing.   | 3. P. superflua. Excessive menstruation. 4. P. erroris. Vicarious menstruation.  |  |
| 4. P. duplicata. Double hearing.   | 5. P. cessationis. Irregular cessation of the  |  |
| 3. P. perversa. Perverse hearing. 4. P. duplicata. Double hearing. 5. P. illusoria. Imaginary sounds. 6. P. surditas. Deafness. Genus 3. Parosmis. Morbid smell.   | Genera 2 I way Bu Ta Whitee  |  |
| Genus 3. Parosmis. Morbid smell.   | Germs 2. Lecorrhea. Whites. Species 1. L. communis. Common whites. 2. L. nabothi. Labour show.   |  |
| Species 1. P. acris. Acute smell. 2. P. obtusa. Obtuse smell. 3. P. expers. Want of smell.   | 2. L. nabothi. Labour show. 3. L. senescentium. Whites of advaned life.  |  |
| 3. P. expers. Want of smell.   | Genus 3. Blenorrhee. Gonorrhea.  |  |
| Genus 4. PARAGEUSIS. Morbid taste.   | Species 1. B. simplex. Simple urethral running. 2. B. luodes. Clap.  |  |
| Species 1. P. acute. Acute taste. 2. P. obtusa. Obtuse taste.  | 3. B. chronica. Gleet.   |  |
| 3. P. expers. Want of taste.  Genus 5. Parapsis. Morbid touch.   | Genus 4. Spermorrhea. Seminal flux.<br>Species 1. S. entonica. Entonic seminal flux.   |  |
| Species 1. P. acris. Acute sense of touch or general   | 2. S. atonica. Atonic seminal flux.  |  |
| feeling.  2. P. expers. Insensibility of touch or general  | Genus 5. Galactia. Mislactation.   |  |
| feeling.   | Species 1. G. premature. Prenature mikflow. 2. G. dejectiva. Deficient mikflow. 3. G. depravata. Depraved mikflow. 4. G. erratica. Erratic mikflow. 5. G. virorum. Mikflow in males.   |  |
| 3. P. illusoria. Illusory sense of touch or general feeling.   | 3. G. depravata. Depraved milkflow.  |  |
| Genus 6. Neuralgia. Nerve-ache.<br>Species 1. N. faciei. Nerve-ache of the face.   | 5. G. virorum. Milkflow in males.  |  |
| 9 N nedia Nerve-ache of the foot   | ORDER 2. ORGASTICA. Affecting the orgasm. Genus 1. CHLOROSIS. Green-sickness.  |  |
| 3. N. mamoue. Nerve ache of the breast. ORDER 3. CINETICA. Affecting the muscles. Genus 1. Entasia. Constrictive spasm.  | Species I. C. entonica. Entonic green-sickness   |  |
| Genus 1. Entasia. Constrictive spasm.  | 2. C. atonica. Atonic green-sickness.  Genus 2. Procotia. Genital precocity.   |  |
|  | Species J. Proceeding. Male precocity.  Species J. P. masculina. Male precocity.  2. P. feminina. Female precocity  Genus 3. Laonesis. Lust.  Species J. L. salacitas. Salacity.  2. L. furor. Lascivious madness.  Genus 4. Agransia. Male sterility. |  |
| 2. E. loxia. VV ry neck. 3. E. articularis. Muscular stiff-ioint.  | Genus 3. Lagnesis. Lust.   |  |
| 4. E. systremma. Cramp.  | Species 1. L. salacitas. Salacity.   |  |
| 6. E. tetanus. Tetanus.  | Genus 4. Agenesia. Male sterility.   |  |
| 2. E. loxia. Wry neck. 2. E. loxia. Wry neck. 3. E. articularis. Muscular stiff-joint. 4. E. systremma. Cramp. 5. E. trismus. Hooked-jaw. 6. E. tetanus. Tetanus. 7. E. lyssa. Rabies. Canine madness. 8. E. acrostimus. Suppressed pulse.                                       | Species 1. A impotens. Male impotency.  2. A. dyspermia. Seminal misemission.  3. A. incongrua. Copulative incongruity.  Genus 5. Amphoria. Female sterility. Barrenness.  Species 1. A. impotens. Barrenness of impotency.                            |  |
| Genus 2. Clonicus. Clonic spasm.   | 2. A. dyspermia. Seminal misemission. 3. A. incongrua. Conulative incongruity  |  |
| Species 1. C. singultus. Hiccough. 2. C. sternutatio. Sneezing.  | Genus 5. AMPHORIA. Female sterility. Barrenness.   |  |
| 3. Palpitatio, Palpitation.  | 2. A. paramenica. Barrenness of impotency.   |  |
| 4. C. nectitatio. Wrinkling of the eyelids.  | struation.   |  |
| 4. C. nectitatio. Wrinkling of the eyelids. 5. C. subsultus. Twitching of the tendons. 6. C. pandiculatio. Stretching.   | 3. A. impercita. Barrenness of irrespondence. 4. A. incongrua. Barrenness of incongruity.  |  |
| Genus 3. Synctoxus. Synctomic spasm Species 1. S. tremor. Trembling. 2. S. chorea. St. Vitus's dance. 3. S. ballismus. Shaking palsy.  | 4. A. incongrua. Barrenness of incongruity.  Genus 6. Epoprosis. Genital prolapse.   |  |
| 2. S. chorea. St. Vitus's dance.   | Species I. Æ. uteri. Falling down of the womb.  2. Æ. vaginæ. Prolanse of the vagina   |  |
| 3. S. ballismus. Shaking palsy. 4. S. raphania. Raphania.  | 2. Æ. vaginæ. Prolapse of the vagina. 3. Æ. vesicæ. Prolapse of the bladder  |  |
| 5. S. beriberia. Barbiers.   | 4. Æ. complicata. Complicated genita. pro-   |  |
| ORDER 4. SYSTATICA. Affecting several, or all the  | 5. Æ. Polynosa. Genital excressance  |  |
| Genus 1. AGRYPNIA. Sleeplessness.  Species 1. A. excitata. Irritative wakefulness.   | ORDER 3. CARPOTICA. Affecting the impregnation.  Genus 1. Paracyesis. Morbid pregnancy.  |  |
| Species 1. A. excitata. Irritative wakefulness.  2. A. pertesa. Chronic wakefulness.   | Consultational derangement   |  |
| Genus 2. Dysphoria. Restlessness.  | of pregnancy.  2. P. oterina. Local derangement of preg-   |  |
| Genus 2. Dysphoria. Restlessness.  Species 1. D. simplex. Fidgets.  2. D. anxietas. Anxiety.   |  |  |
| Genus 3. Antipathia. Antipathy   | 3. P. abortus. Abortion. Genus 2. Parodynia. Morbid labour.  |  |
| Species 1. A. sensilis. Sensile antipathy.   | Species I. P. atomica. Atomic labour. 2. P. implastica. Unpliant labour. 3. P. averatti.   |  |
| Genus 3. ANTIPATHIA. Antipathy Species 1. A. sensilis. Sensile antipathy. 2. A. insensilis. Insensile antipathy. Genus 4. CEPHALMA. Headache   | 3. P. sympathetica. Complicated labour.  |  |
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NOSOLOGY. Species 3. M. acari. Tick-bite.
4. M. filatiæ. Guinea-wor
5. M. æstri. Gaddy-bite.
6. M. gordii. Hair-worm.
Cutaneous 8. Ecphyma. Cutaneous Species 4. P. perversa. Preternatura presentation.
5. P. amorphica. Impracticable labour.
6. P. pluralis. Multiplicate labour
7. P. secundaria. Sequential labour. Guinea-worm. Genus 3. Eccyssis. Extra-uterine fustation.

Species 1. E. ovaria. Ovarian exfectation.

2. E. tubalis. Tubal exfectation.

3. E. abdominalis. Abdominal exfectation.

Genus 4. Pseubocysis. Spurious pregnancy. Genus 8. Ecphyma. Cutaneous excrescence.
Species 1. E. caruncula. Caruncle.
2. E. verruca. Wart. Species 1. E. caruncula. Caruncle.
2. E. verruca. Wart.
3. E. clavus. Corn.
4. E. calus. Callus.
Genus 9. Tracnosis. Morbid hair.
Species 1. T. setosa. Bristly hair.
[2. T. plica. Platted hair.
3. T. hirsuties. Extraneous hair.
4. T. distrix. Forky hair.
5. T. poliosis. Gray hairs.
6. T. arthrix. Baldness.
7. T. arca. Arcated hair.
8. T. decolor. Missoloured hair.
Genus 10. Errenrosis. Macular skin.
Species 1. E. leucasmus. Veal-skin. Genus 4. Pseupocysis. Spurious pregnancy.
Species I. P. molaris. Mole.
2. P. inanis. False conception.
CLASS VI. ECCRITICA.—Diseases of the Excer-ORDER 1. MESOTICA. — Diseases of the Exnent Functions.

Genus 1. POLYSARCHIA. Corpulency
Species 1. P. adiposa. Obesity.

Genus 2. EMPHYMA. Tumour.

Species 1. E spream. Species 1. P. adiposa. Obesity.

Genus 2. Empityma. Tumour.

2. E. encystis. Encysted tumour.

2. E. encystis. Encysted tumour.

3. E. exostosis. Bony tumour.

Genus 3. Parosta. Mis-ossification.

Species 1. P. fragilis. Fragility of the bones.

2. P. flexilis. Flexility of the bones.

Genus 4. Cyrtosis. Contortion of the bones.

Species 1. C. rhachia. Rickets.

2. C. cretinismus. Cretinismus.

Genus 5. Osthexia. Osthexy.

Species 1. O. infarciens. Parenchymatous orthexy.

2. O. implexa. Vascular osthexy.

Order 2. Catotica. Affecting internal surfaces.

Genus 1. Hydrofs. Dropsy.

2. H. capitis. Dropsy of the head.

3. H. spins. Dropsy of the spine.

4. H. thoracis. Dropsy of the chest.

5. H. abdominis. Dropsy of the belly.

6. H. ovarii. Dropsy of the belly.

6. H. ovarii. Dropsy of the scrotum.

Genus 2. Emphysema. Inflation, wind dropsy.

Species 1. E. cellulare. Cellular inflation.

2. E. abdominis. Typany.

Genus 3. Parria. Mismicturition.

Species 1. P. inors. Destitution of urine. Genus 10. Epteurosis. Macular skin.

Species I. E. leucasmus. Veal-skin.

2. E. spilus. Mole.

3. E. lenticula. Freckles.

4. E. ephelis. Sun-burn.

5. E. aniugo. Orange-skin.

6. E. pacilia. Pyeballed-skin.

7. E. alphosis. Albino-skin.

NOSTAT-IGIA. (From νοτεω, to return, and αλγος, pain.) A vehement desire for revisiting one's country. A genus of disease in the class Locales, and order Dysorexia, of Cullen, known by impatience when absent from one's native home, and a vehement desire to return, attended with gloom and melancholy, loss of appetite, and want of sleep.

NOSTRIM. This word means our own, and is very significantly applied to all quack medicines, the composition of which is kept a secret from the public, and known only to the inventor.

Notched leaf. See Erosus.

NO THUS. (Notos, spurious.) Spurious. 1. Those ribs which are not attached to the sternum are called costa notha, the spurious ribs.

2. Diseases are so called which only resemble others which they really aux not. as peripneumonia natha, &c. which they really are not: as peripreumonia notha, &c. Notie'us. (From νωτον, the back.) An epithet of 2. E. abdominist Tympany.

Genus 3. PARURIA. Mismicturition.

Species 1. P. inops. Destitution of urine.

2. P. retentionis. Stoppage of urine.

3. P. stillatitia. Strangury.

4. P. mellita. Saccharine urine. Diabetes.

5. P. incontinens. Incontinence of urine.

6. P. incota. Unassimulated urine.

7. P. erratica. Erratic urine. the spinal marrow. Notio'des. (From voris, moisture.) Applied to a fever, attended with a vitiation of the fluids, or a colfever, attended with a vitation of the nuits, or a conliquative wasting.

NOVACULITE. See Whetslate.

NUBECTLA. (Dim. of nubes, a cloud.) A little
cloud. 1. A cloud in the urine.

2. A white speck in the eye.

NUCAMENTUM. See Amentum.

NUCES QALLE. Common gails.

NUCES PU GANTES. See Revinus.

NUCESTA. See Myristica moschata.

NUCHA. Nucha capitis. The hind part or nape
of the neck. The part is so called where the spinal
marrow heeins. Genus 4. LITHIA. Urinary calculus. Species 1. L. renalis. Renal alculus. 1. L. renalis. Renal alculus.
2. L. vesicalis. Stone in the bladder.
3. Acrottca. Affecting the external surface.
1. Ephidrosis. Morbid sweat.
1. E. profusa. Profuse sweat.
2. E. cruenta. Bloody sweat.
3. E. partfalis. Partial sweat.
4. E. discolor. Coloured sweat.
5. E. olens. Scented sweat.
6. E. programs Sandy sweat ORDER 3. Species 1. of the neck.
marrow begins.
The nutmeg. marrow begins.

NCC'STA. The nutmeg.

NCC'K, Anthony, a distinguished Dutch physician and anatomist, flourished at the Hague, and subsequently at Leyden, in the latter part of the 17th century. He filled the office of professor of anatomy and surgery in the latter university, and was also president of the college of surgeons. He pursued his dissections with great ardour, cultivating both human and comparative anatomy at every opportunity. He contributed some improvements also to the practice of surgery. He died about the year 1692.

NU'CLEUS. (E nuce, from the nut.) 1. A kernel or fruit enclosed in a hard shell.

2. When the centre of a tumour or morbid concretion, 6. E. arenosa.

Genus 2. Exantresis. Cutaneo

Freecola, Rose rash. 6. E. arenosa. Sandy sweat Genus 2. EXANTITION Species 1. E. rescola. Rose-rash.
Papulous skin.
Papulous skin. Cutaneous-blush. Species 1. E. strophulus. Gum-rash. 2. E. lichen. Lichenous-rash. 3. E. prurigo. Pruriginous-rash. Millet-rash. Scale-skin. 4. E. milium. Genus 4. Lepinosis. Scale-skin.
Species 1. L. pityriasis. Dandrift.
2. L. lepriasis. Dry-scall.
4. L. ichylasis. Fish-skin
Genus 5. Ecphlysts. Blains.
Species 1. E. pompholyx Water-t
2. E. herpes. Sordid beir LEPIDOSIS. Genus Fish-skin. Water-blebs.

3. E. rhypea. Sordid blain.
4. E. eczema. Heat eruptio
Genus 6. Ecpyrsis. Humid scall.

Species 1. E. impetigo. Running scall.
2. E. porrigo. Scabby scall.
3. E. ecthyma. Papulous scall.

3. E. ecthyma. Papulous scall.
4. E. scabies. Itch.
Genus 7. Malls. Cutaneous vermination
Species 1. M. pediculi. Lousiness.
2. M. nulicis. Flea-bites.

Heat eruption.

or fruit enclosed in a hard shell.

2. When the centre of a tumour or morbid concretion, as a stone of the bladder, has an obvious difference from the surrounding parts, that is called the nucleus: thus a cherry-stone and other things have been found in calculi of the bladder, forming the nucleus of that concretion.

NUCLLE SARONA RILE. See Sapindus saponaria.

NUDUS. Naked. Applied to flowers, leaves, stems, receptacles, seeds, &c. of plants. A flower is said to be naked when the calyx is wanting, as in the tulip, and white hiy; and a leaf when it is destitute of all sinds of clothing or hairiness, as in the semps archive. kinds of clothing or hairiness, as in the genus orchis: the stem is naked that bears no leaves, scales, or any other vesture, as Cuscuta europea: the receptacle of the Leontodon taraxacum and Lactuca, the seeds of the gymnospermal plants, &c. 123

NUX

NUMMULA'RIA. (From nummus, money: so called because its leaves are round, and of the size of the old silver twopence.) See Lysimachia nummularia.

See Nux.
See Jatropha curcas. Nut, Barbadoes.

Nut, Barbadocs. See Jatropha curca Nut, cocoa. See Cocos nucifora. Nut, Pistachia. See Pistacia vera. Nut, purging. See Jatropha curcas. NUTMEG. See Myristica moschata.

NUTRITION. Nutritio. Nutrition may be considered the completion of the assimilating functions. The food changed by a series of decompositions animalized and rendered similar to the being which it is designed to nourish, applies itself to those organs, the loss of which it is to supply; and this identification of nutritive matter to our organs constitutes nutrition.

The living body is continually losing its constituent

"From the state of the embryo to the most advanced old age, the weight and volume of the body are almost continually changing; the different organs and tissues present infinite variations in their consistence, colour, elasticity, and sometimes their chemical composition The volume of the organs augments when they are often in action; on the contrary, their size diminishes when they remain long at rest. By the influence of one or other of these causes, their chemical and phy-sical properties present remarkable variations. Many diseases often produce in a very short time, remarkable changes in the exterior conformation, and in the structure of a great number of organs.

If madder is mixed with the food of an animal, in fifteen or twenty days the bones present a red tint, which disappears when the use of it is left off.

There exists, then, in the organs, an insensible motion of the particles which produce all these modifications. It is this that is called nutrition, or nutritive

This phenomenon, which the observing spirit of the ancients had not permitted to escape, was to them the object of many ingenious suppositions that are still admitted. For example, it is said that, by means of the nutritive action, the whole body is renewed, so that, at a certain period, it does not possess a single particle of the matter that composed it formerly. Limits have even been assigned to this total renewal; some have plete till seven: but there is nothing to give probability to these conjectures; on the contrary, certain well-

proved facts seem to render them of no avail.

It is well known that soldiers, sailors, and several savage people colour their skins with substances which they introduce into the tissue of this membrane itself the figures thus traced preserve their form and colour during their lives, should no particular circumstances How can this phenomenon agree with the renewal of the skin according to these authors? The recent use of nitrate of silver internally, in the cure of epilepsy, furnishes a new proof of this kind. After some months' use of this substance, some sick persons have had their skin coloured of a grayish blue, probably by a deposition of the salt in the tissue of this membrane, where it is immediately in contact with the air. Several individuals have been in this state for some years without the tint becoming weaker; while in others it has diminished by degrees, and disappeared in two or

In resting on the suppositions which we have spoken it is admitted, in the metaphorical language now need in physiology, that the atoms of the organs can only serve for a certain period in their composition; that in time they wear, and become at last improper to enter into their composition; and that they are then absorbed and replaced by new atoms proceeding from the food.

It is added, that the animal matters of which our ex-cretions are composed are the detritus of the organs, and that they are principally composed of atoms that can no longer serve in their composition, &c. &c.

Instead of discussing these hypotheses, we shall mention a few facts from which we have some idea of the

nutritive movement.

A. In respect to the rapidity with which the organs change their physical and chemical properties by sickness or age, it appears that nutrition is more or less rapid according to the tissues. The glands, the mus-cles, the skin, &c., change their volume, colour, consistence, with great quickuess the tendons, the fibrous membranes, the bones, the cartilages, appear to have a membranes, the bones, the carriages, appear to mave a much slower nutrition, for their physical properties change but slowly by the effect of age and disease.

B. It we consider the quantity of food consumed proportionably to the weight of the body, the nutritive movement seems more rapid in infancy and youth, than movement seems note rapid it intancy and youth, than in the adult and in old age; it is accelerated by the repeated action of the organs, and retarded by repose. Indeed, children and young people consume more food than adults and old people; these last can preserve all their faculties by the use of a very small quantity of All the exercises of the body, hard labour, require necessarily a greater quantity, or more nutritive food; on the contrary, perfect repose permits of longer abstinence

C. The blood appears to contain most of the princi C. The blood appears to contain most of the principles necessary to the nutrition of the organs; the fibrine, the albumen, the fat, the salts, &c., that enter into the composition of the tissues, are found in the blood. They appear to be deposited in their parenchyma at the instant when the blood traverses them; the manner in which this deposite takes place is entirely unknown. There is an evident relation between the activity of the nutrition of an organ and the quantity There is an evident relation between the of blood it receives. The tissues that have a rapid nutrition have larger arteries; when the action of an organ has determined an acceleration of its nutrition, the arteries increase in size.

Many proximate principles that enter into the composition of the organs are not found in the blood; as osmazome, the cerebral matter, gelatine, &c. They are, therefore, formed from other principles in the parenchyma of the organs, in some chemical but un-

known manner

D. Since chemical analysis has made known the na ture of the different tissues of the animal economy, they have been all found to contain a considerable portion of azote. Our food being also partly composed of this simple body, the azote of our organs likewise probably comes from them; but several eminent authors think that it is derived from respiration; others believe that it is formed by the influence of life solely. parties insist particularly upon the example of the herparties miss partiethary upon the example of the her-bivorous animals, which are supported exclusively upon non-azotized matter; upon the history of certain people that live entirely upon rice and maize; upon that of negroes who can live a long time without eating any thing but sugar; lastly, upon what is related of caravans, which, in traversing the deserts, have for a long time had only gum in place of every sort of food. Were it indeed proved by these facts, that men can live a long time without azotized food, it would be necessary to acknowledge that azote has an origin different from the food; but the facts cited by no means prove In fact, almost all the vegetables upon which man and the animals feed contain more or less azote; for example, the impure sugar that the negroes eat presents a considerable portion of it; and with regard to the people, as they say, who feed upon rice or maize, it is well known that they cat milk or cheese: now casein is the most azotized of all the nutritive proximate prin-

E. A considerable number of tissues in the economy appear to have no nutrition, properly so called: as the epipermis, the nails, the hair, the teeth, the colouring matter of the skin, and, perhaps, the carti-

These different parts are really secreted, by particular organs, as the teeth and the hair; or by parts which have other functions at the same time, as the nails and epidermis. The most of the parts formed in this mode wear by the friction of exterior bodies, and are constantly renewed if they are entirely carried away, they are capable of reproduction. A very singular fact is, that they continue to grow several days after death.—Magendie's Physiology.
NUTRI'TUM UNGUENTUM. A composition of litharge,

vinegar, and oil.

(Nux, cis. f.) A nut, or fruit, which has a NITY hard shell.

Botanists consider this as distinct from the drupa, and define it a pericarp, the seed being contained in a hard bony shell.

From the number of seeds it contains, it is called, 1. Monosperm, having one; as in Corylus avellana.
2. Disperm, with two; as in Hulesia.

From its loculaments:

NUX AROMATICA. The numeg.

NUX BARBADENSIS. See Jatropha curcas. NUX BASILICA. The walnut.

NUX BASILICA. The walnut.

NUX BEN. See Guilandina moringa.

NUX CATHARTICA. The garden spurge.

NUX CATHARTICA AMERICANA. See

Jatropha curcas.

Nux juglans. See Juglans. Nux medica. The maldivian nut.

NUX METELLA. The mux vomica.

NUX MOSCHATA. See Myrystica moschata. NUX MYRISTICA. See Myristica moschata. NUX MOSCHATA. See Myristica mosch NUX MYRISTICA. See Myristica mosch NUX PERSICA. The wahut. NUX PISTACIA. See Pistacia vera. NUX PURCANS. See Jatropha curcas. NUX SERAPIONIS. St. Ignatius's bean. NUX VOMICA. See Strychnos.

NYCTALO'PIA. (From rot, the night, and oth, an eye.) Imbecillitas oculorum, of Celsus. A defect in vision, by which the patient sees little or nothing in the day, but in the weening and night sees tolerably well. The proximate cause is various:

From a periodical amaurosis, or gutta serena. when the blind paroxysm begins in the morning and

when the bind paroxysin cents in the inclining the terminates in the evening.

2. From too great a sensibility of the retina, which cannot bear the meridian light. See Photophobia.

3. From an opaque spot in the middle of the crystalline lens. When the light of the sun in the meridian contracts the pupil, there is blindness; about evening, or in more obscure places, the pupil dilates, hence the rays of light pass through the limbus of the crystal-

4. From a disuse of light; thus persons who are educated in obscure prisons see nothing immediately in open meridian light; but by degrees their eyes are accustomed to distinguish objects in daylight.

5. From an immovemble mydrians; for in this instance the pupil admits too great a quantity of light, which the inspection of the pupil admits too great a quantity of light.

which the immobile pupil cannot moderate; hence the

patient, in a strong light, sees little or nothing.
6. From too great a contraction of the pupil. This admits not a sufficiency of lucid rays, in bright light, but towards night the pupil dilates more, and the pa-

tient sees better.

7. Nyctalopia endemica. A whole people have been nyctalopes, as the Æthiopians, Africans, Americans, and Asiatics. A great flow of tears are excreted all the day from their eyes; at night they see objects.

the day from their eyes; at night they see objects.

8. From a commotion of the eye; from which a man in the night saw all objects distinctly.

Nycro'sasts. (From vvi, the night, and  $\beta avv$ , to go.) Walking in the sleep.

NY/MPHA. (From  $vv\psi\phi a$ , a water-nymph: so called because it stands in the water-course.) Alw interne minores citioridis; Colliculum; Collicula; Myrtockeilides; Labia minora. The membranous Coll viewed within the labia majora on each side of fold, situated within the labia majora, on each side of the entrance of the vagina uteri.

the entrance of the vogina uteri.

NYMPHAE'A. (From vupta, a water-nymph; because it grows in watery places.) The name of a genus of plants in the Linnman system. Class, Polyandria; Order, Monogynia. The water-lily.

NYMPHEA ADA. Leuconymphaa. Nenuphar. Micro-leuconymphaa. The systematic name of the white water-lily. This beautiful plant was formerly

1. Unilocular, bilocular, trilocular, with one, two, or three; as in Corplus, Lygcum, and Elais.

From its figure:

1. Alate, winged; as in Pinus thuja.
2. Angulate; as in Corplus and Carpinus.
3. Onate; as in Corplus and Carpinus.
4. Quadrangular; as in Halesia.
5. Tetragone; as in Peladium and Mesua.
6. Reniform; as in Anacardium.
7. Spinous; as in Trapa natuus.
Nux Aquatica. Bee Trapa natuus.
Nux Aquatica. The nutneg. for several days.

for several days.

Numpha Lutea. Nympha major lutea, of Caspar Bauhin. The systematic name of the yellow water-lily. This beautiful plant was employed formerly with the same intention as the white water-lily, and, like it, is now fallen into disuse. Lindestolpe informs us, that, in some parts of Sweden, the roots, which are the strongest part, were, in times of scarcity, used as food, and did not prove unwholesome.

used as 100d, and did not prove unwholesome. NYMPHEA NELUMBO. Faba agyptiaca; Cyamus agyptiacus; Nymphaa indica; Nymphaa glandifera. The pontic, or Egyptian bean. This plant grows om marshy grounds in Egypt, and some of the neighbouring countries. The fruit is eaten either raw or boiled,

and is a tonic and astringent.

NYMPHOI'DES. (From νυμφαια, the water-lily, and ειδος, likeness.) Resembling the water-lily; as Meny-

NYMPHOMA'NIA. (From νυμφα, nympha, and ανια, madness.) Furor uterinus. Called by the para, madness.) Furor uterius. Called by the Arabians, Acrai; Brachuna; Arascon; Arastun; Estromania. A genus of disease in the class Locales, and order Dysorexie, of Cullen, characterized by excessive and violent desire for coition in women. The effects, as described by Juvenal, in his sixth satire, are most huminiting to human nature. It acknowledges the same causes as satyriasis; but as females, more especially in warm climates, have a more irritable fibre, they are apt to suffer more severely than the

It is a species of madness, or a high degree of hyserics. Its immediate cause is a preternatural irritabiterics. Its immediate cause is a preternatural irritabi-lity of the uterus and pudenda of women, or an un-usual acrimony of the fluids in these parts. Its pre-sence is known by the wanton behaviour of the patient; she speaks and acts with unestrained obscenity, and, as the disorder increases, she scolds, cries, and laughs, by turns. While reason is retained, she is silent, and seems metanetholy, but her eyes discover an unusual wantonness. The symptoms are better or worse, until the greatest degree of the disorder approaches, and then, by every word and action, her con-

dition is too manifest. NYMPHOTOMIA. (From  $\nu\nu\mu\mu\phi a$ , the nympha, and  $\tau\epsilon\mu\nu\omega$ , to cut.) The operation of removing the nympha when too large.

NYSTA'GMUS. (From νυςαω, to sleep.) A twink-NYSTA GMUS. (From  $vv_{\mathcal{G}\omega_{\mathcal{H}}}$  to sleep.) A twink-ling of the eyes, such as happens when a person is very sleepy. Authors also define nystagmus to be an involuntary agitation of the oculary bulb. It is known by the instability or involuntary and constant motions of the globe of the eye, from one canthus to another, or in some other directions. Sometimes it is accompanied with a hippus, or an alternate and repeated dilatation and constriction of the pupil. The species are, I. Nystagmus, from fear. This agitation is obserted wife the carterion for the category and it for served under the operation for the cataract; and it is checked by persuasion, and waiting a short space of time. 2. Nystagmus, from sand or small gravel fall ing in the eye. 3. Nystagmus, from a catarrh, which is accompanied with much inflammation. 4. Nystagmus, from saburra in the primæ viæ, as is observed in infants afflicted with worms, and is known by the signs of saburra. 5. Nystagmus symptomaticus, which happens in hysteric, epileptic, and sometimes in pregnant persons, and is a common symptom accompanying St. Vitus's dance. checked by persuasion, and waiting a short space of

OAK. See Quercus.
Oak, Jerusalem. See Chenopodium botrys.
Oak, sea. See Fucus vesteulosus.
Oak, villow-leaved. See Quercus phellos.

Oak, nowow-teavea. See Quercus phellos.
[Oaks, hmerican. See Quercus. A.]
OAT. See Avena.
OBELA A. From obelos, a dart, or a spit.) Obelma
sagritalis, an epithet for the sagittal suture of the

OBELISCOTHE CA. (From obediokog, an obelisk, and OBELISCOTHE CA. (From obcharce, an obelisk, and obelisk, and ober so called from the shape of its seed-bags.)
The dwarf sunflower. (ystas helianthemum.
OBESITY. See Polysarcia.
OBLESION. (From ob, against, and lado, to hurt.)

An injury done to any part. OBLI QUUS. Oblique-

1. In anatomy. A term applied to parts from their direction.

2. In botany, it means the same as radix obliques, but sometimes it means twisted. Folium obliquem. for example, is a leaf, one part of which is vertical, the Other horizontal, as in Fritillaria obliqua.
OBLIQUUS ASCENDENS ABDOMINIS. See Obliquus

internus abdominis

OBLIQUUS ASCENDENS INTERNUS. See obliquus internus abdominis.

OBLIQUUS AURIS. See Laxator tympani.
OBLIQUUS CAPITIS INFERIOR. See Obliquus infe-

rior capitis.

See Obliques supe-ORLIQUES CAPITIS SUPERIOR rior capitis. OBLIQUUS DESCENDENS ABDOMINIS. See Obliquus

externus abdominis OBLIQUUS DESCENDENS EXTERNUS. See Obliquus

externis abdominis OBLIQUUS EXTERNUS. See Obliquus externus ab-

OBLIQUUS EXTERNUS ABDOMINIS. A muscle of the abdomen: so named by Morgagni, Albinus, and Wins A muscle of the It is the Obliques descendens of Vesalius and Douglas, and the Obtiquus major of Haller, and some By Dumas it is named Heo-pubicosto abdomi It is a broad, thin muscle, fleshy posteriorly, and tendinous in the middle and lower part, and is situated immediately under the integuments, covering all the other muscles of the lower belly. It arises from the lower edges of the eight, and sometimes, though rarely, of the nine inferior ribs, not far from their cartilages, by as many dis tinct fleshy portions, which indigitate with corresponding parts of the serratus major anticus, and the latissi-From these several origins, the fibres of the muscle descend obliquely forwards, and soon degenerate into a broad and thin aponeurosis, which terminates in the linea alba. About an inch and a half above the pubes, the fibres of this aponeurosis separate from each other, so as to form an aperture, which extends obliquely inwards and forwards, more than an inch in length and is wider above than below, being nearly of an oval called the ring of the abdominal muscles, annulus ab dominis, for it belongs only to the external oblique, there being no such opening either in the obliquus in there being no such opening enter in the obligation ternus, or in the transversalis, as some writers, and particularly Douglas and Cheseiden, would give us to understand. This opening, or ring, serves for the passage of the spermatic vessels in men, and of the round ligament of the uterus in women, and is of a larger size in the former than in the latter. The two tendinous portions, which, by their separation, form this aperture, are called the columns of the ring. The anterior, superior, and inner column, which is the broadest and thickest of the two, passes over the symphysis pubis and is fixed to the opposite os pubis; so that the anteand is fixed to the opposite os publis; so that the anterior column of the right obliquite externus intersects that of the left, and is, as it were, interwoven with it, by which means their insertion is strengthened, and their attachment made firmer. The posterlor, inferior, and exterior column, approaches the anterior one as it descends, and is fixed behind and below it to the os publis of the same side. The fibres of that part of the

obliquus externus, which arises from the two inferior ribs, descend almost perpendicularly, and are inserted, tendinous and deshy, into the outer edge of the anterior half of the spine of the illum. From the auterior superior spinous process of that bone, the external oblique is stretched tendmons to the os publs, forming what is called Poupart's and sometimes Fallopius's ligament, Fallopius having first described it. Winslow, and many others, name it the inguinal ligament. But, after all, it has no claim to this name, it being nothing more than the tendon of the musele, which is turned or folded inwards at its interior edge. It passes over the blood-vessels of the lower extremity, and is thickest near the pelvis; and in women, from the greater size of the pelvis, it is longer and looser than in men. Hence we find that women are most hable to crural hernin; whereas men, from the greater size of the ring of the external oblique, are most subject to the inguinal. From this ligament, and from that part of the tendon which forms the ring, we observe a detachment of ten-dinous fibres, which are lost in the fascia lata of the thigh. This may, in some measure, account for the pain which, in cases of strangulated hernia, is felt when the patient stands upright, and which is constantly re-lieved upon bending the thigh upwards. This muscle serves to draw down the ribs in expiration; to bend the trunk forwards when both muscles act, or to bend it coliquely in one side, and, perhaps, to turn it slightly upon its axis, when either acts singly; it also raises the pelvis obliquely when the ribs are fixed; it supports and compresses the abdominal viscera, assists in the evacuation of the urine and faces, and is likewise useful in parturition.

OBLIQUES INFERIOR. See Obliquus inferior capitis,

and Obliques inferior oculi.

OBLIQUES INFERIOR CAPITIS. This muscle of the head, the obliquits inferior size major, of Winslow, and the Spini avoido trachele altoulien, of Dumas, is larger than the obliquits superior capitis. It is very obliquely situated between the two first vetebræ of the It arises tendinous as d fleshy from the middle and outer side of the spinous process of the second vertebra of the neck, and is inserted tendinous and fleshy into the lower and posterior part of the transverse pro-cess of the first vertebra. Its use is to turn the first vertebra upon the second, as upon a pivot, and to draw the face towards the shoulder.

OBLIQUUS INFERIOR OCULI. Obliquus minor oculi, of Winslow, and Macillo, scleroticien, of Dumas. An oblique muscle of the eye, that draws the globe of the eye forwards, inwards, and downwards. It arises by a narrow beginning from the outer edge of the orbitar process of the superior maxillary bone, near its junction with the lachrymal bone, and running obliquely outwards, is inserted into the sclerotic membrane of the eye.

OBLIQUUS INFERIOR SIVE MAJOR. See Obliquus in-

OBLIQUES INTERNUS. See Obliques internus abdo-

OBLIQUUS INTERNUS ABDOMINIS. Musculus acclivis. A muscle of the abdomen. The Obliquus ascendens, of Vesalius, Douglas, and Cowper; the Obliquus minor, of Haller; the Obliquus internus, of Winslow; the Obliquus ascendins internus, of lines; and the liliglumbo costi abdominal, of Dumas. It is situated im-mediately under the external oblique, and is broad and thin like that muscle, but somewhat less considerable in its extent. It arises from the spinous processes of the three inferior lumbar vertebree, and from the posterior and middle part of the os sacrum, by a thin tendinous expansion, which is common to it and to the serratus posticus interior; by short tendinous fibres, from the whole spine of the ilium, between its posterior tubewhole spine of the halm, between us posterior une-rosity and its anterior and superior spinous process; and from two-thirds of the posterior surface of what is catled Fallopius's ligament, at the middle of which we find the round ligament of the uterus in women, and the spermatic vessels in men, passing under the thin when of this muscle, and in the latter it thereins condedge of this muscle; and in the latter, it likewise sends

off some fibres, which descend upon the spermatic chord, as far as the tunica vaginalis of the testis, and constitute what is called the cremaster muscle, which surrounds, suspends, and compresses the testicle. From these origins, the mbres of the internal oblique run in different directions; those of the posterior portion ascend obliquely forwards, the middle ones become less and less oblique, and at length run in a horizontal di-rection, and those of the anterior portion extend obliquely downwards. The first of these are inserted, by very short tendinous fibres, into the cartilages of the fifth, fourth, and third of the false ribs; the fibres of httl, fourth, and third of the laise ribs; the nores of the second, or middle portion, form a broad tendon, which, after being inserted into the lower edge of the cartilage of the second false rib, extends towards the linea alba, and separates into two layers; the anterior layer, which is the thickest of the two, joins the tendon of the obliquus externus, and runs over the two upper thirds of the rectus muscle, to be inserted into the linea alba; the posterior layer runs under the rectus, adheres to the anterior surface of the tendon of the transversalis, and is inserted into the cartilages of the first of the first, and the last of the true ribs, and likewise into the line alba. By this structure we may perceive that the greater part of the reduced, as it were, in a sheath. The fibres of the anterior portion of the internal children and the control of the of the internal oblique, or those which arise from the spine of the ilium and the ligamentum Fallopii, likespine of the thum and the ligamentum Failopii, like-wise form a broad tendon, which, instead of separating into two layers, like that of the other part of the mus-cle, runs over the lower part of the rectus, and adhering to the under surface of the tendon of the external oblique, is inserted into the forepart of the pubes. This muscle serves to assist the obliquis externus; but it seems to be more evidently calculated than that muscle is to draw the ribs downwards and backwards. It likewise serves to separate the false ribs from the true ribs, and from each other.

OBLIQUUS MAJOR ABDOMINIS. See Obliquus externus abdominis.

OBLAQUUS MAJOR CAPITIS. See Obliquus inferior

Capitis.
OBLIQUUS MAJOR OCULI. See Obliquus superior oculi.

OBLIQUUS MINOR ABDOMINIS. See Obliquus internus abdominis OBLIQUUS MINOR CAPITIS. See Obliquus superior

capitis. OBLIQUUS MINOR OCULI. See Obliquus inferior

OBLIQUUS SUPERIOR CAPITIS. Riolanus, who was the first that gave particular names to the oblique muscles of the head, called this muscle obliques minor, to distinguish it from the inferior, which, on account of its being much larger, he named obliques major. Spigelius atterward distinguished the two, from their situation with respect to each other, into superior and inferior; and in this he is followed by Cowper and Douglas. Winslow retains both names. Demas calls it Trachelo-altoido-occipital. That used by Albinus is here adopted. This little muscle, which is nearly of the same shape as Ans the metric optics, is situated laterally between the occi-put and the first vertebra of the neck, and is covered by the complexus and the upper part of the splenius. It arises, by a short thick tendon, from the upper and posterior part of the transverse process of the first vertebra of the neck, and, ascending obliquely inwards and backwards, becomes broader, and is inserted, by a broad flat tendon, and some few fleshy fibres, into the Os occipitis, behind the back part of the mastoid pro-cess, under the insertion of the complexus and splenius, and a little above that of the rectus major. The use of this muscle is to draw the head backwards, and perhaps to assist in its rotatory motion.

OBLIQUUS SUPERIOR OCULI. Trochlearis; Longissimus oculi. Obliquus major, of Winslow; Optico-trochler-scleroticien, of Dumas. An ob muscle of the eye, that rolls the globe of the eye, and turns the pupil downwards and outwards. like the straight muscles of the eye from the edge of the foramen optioum at the bottom of the orbit, between the rectus superior and rectus internus; from thence runs straight along the papyraceous portion of the ethmoid bone to the upper part of the orbit, where a cartilaginous trochlea is fixed to the inside of the internal angular process of the os frontis, through which its tendon passes, and runs a little downwards and out-

wards, enclosed in a loose membranaceous sheath, to be inserted into the sclerotic membrane.

OBLIQUUS SUPERIOR SIVE MINOR. See Obliquus superior capitis.

OBLIQUUS SUPERIOR SIVE TROCHLEARIS. See Ob-

OBLONGUS. In botany applied to leaves, petals, oBLONGUS. In botany applied to leaves, petals, seeds, &c. which are three or four times longer than broad. This term is used with great latitude, and broad. This term is used with great latitude, and serves chiefly in a specific character to contast a leaf, which has a variable, or not very decided form, with others that are precisely round, ovate, linear, &c.

The petals of the genus Citrus and Hedera, and those of the Narcissus moschatus, are oblong, and the seeds of the Boerhaavid aiffusa.

OBOVATUS. Obovate. Used in botany to designate leaves, &c. which are ovate with a broader end uppermost: as those of the primrose and daisy. Linnaus at first used the words obsers i ovatum.

OBSIDIAN. A mineral of which there are two

DBSIDIANN. A mineral, of which there are two kinds, the translucent and transparent.

1. The translucent obsidian. This is of a velvet black colour, and occurs in beds in porphyry and various secondary trap rocks in Iceland and Tokay.

2. The transparent is of a duck-blue colour, imbedded in pearl-stone porphyry in Siberia and Mexico.

OBSIDIANUM. (So called from its resemblance to a kind of stone which one Obsidius discovered in Pathi-

Obstplaxxx. (So called from its resemblance to a kind of stone, which one Obsidus discovered in Ethicopia, of a very black colour, though sometimes pellucid, and of a muddy water.) 1. A species of glass. See Obstduan.

2. Pliny says that obsidianum was a sort of colour with which vessels were glazed. Hence the name is

applied, by Libavius, to glass of antimony.

OBSTETRIC. (Obstetricus: from obstetriz, a nurse.) Belonging to midwifery.

OBSTIPA'TIO. (From obstipo, to stop up.) Costiveness. A genus of disease in the class Locales, and

order Epischeses of Cullen, comprehending three species: 1. Obstipatio debilium, in weak and commonly dys-

peptic persons.

2. Obstipatio rigidorum, in persons of rigid fibres, and a melancholic temperament.

3. Obstrpatio obstructorum. from obstructions. See

Obstrue'noa. (From obstruo, to shut up.) Whatever closes the orifices of the ducts or vessels.
Obstrueracie'ntia. (From obstupefacio, to stu-

pefy.) Narcotics.

OBTUNDE TIL. (From obtundo, to make blunt.)
Substances which sheath or blunt irritation, and are
much the same as demulcents. They consist chiefly OBTUNDE'NTIA. of bland, oily, or mucilaginous matters, which form a covering on inflamed and irritable surfaces, particularly

OBTURA'TOR. A stopper up, or that which covers any thing.

OBTURATOR EXTERNUS. Extra-pelvio-pubi-trochan. OBTURATOR EXPERSUS. Extra-petro-pur-trocane-terien, of Dumas. This is a small flat muscle, situa-ted obliquely at the upper and anterior part of the thigh, between the pectinalis and the forepart of the foramen thyroideum, and covered by the alductor bre-vis femoris. It arises tendinous and fleshy from all the inner half of the circumference of the foramen thyroideum, and likewise from part of the obturator ligament. Its radiated fibres collect and form a strong roundish tendon, which runs outwards, and, after adhering to the capsular ligament of the joint, is inserted into a cavity at the inner and back part of the root of the great trochanter. The chief uses of this muscle the great trochanter. The chief uses of this muscle are to turn the thigh obliquely outwards, to assist in bending the thigh, and in drawing it inwards. It likewise prevents the capsular ligament from being pinched in the motions of the joint.

in the motions of the joint.

Outcraftor intervis. Marsupialis, seu obturator internus, of Douglas. Marsupialis seu bursalis, of Cowper; and Intrapelvio-trochanterien, of Dunias. A considerable muscle, a great part of which is situated within the pelvis. It arises, by very short tendinous fibres, from somewhat more than the upper half nous nores, from somewhat more than the upper hair of the internal circumference of the foramen thyrodeum of the os innominatum. It is composed of several distinct fasciculi, which terminate in a roundish tendon that passes out of the pelvis, through the uncha that is between the spine and the tuberosity of the ischium, and, after running between the two portions of the gemini, which enclose it as in a sheath, is inserted

of the joint. This muscle rolls the os femous obliquely outwards, by pulling it towards the ischaric mehe, upon the cartilaginous surface of which its tendon, which is surrounded by a membraneous sheath, moves as upon a pulley.

OBTURATOR NERVE. A nerve of the thigh, that is lost upon the muscles situated on the inside of the

OBTUSUS. Blunt. Applied to a leaf which terminates in a segment of a circle; as that of the Linum catharticum. This formed leaf has a small point obtusum cum acumine, in the Statyoe limonium. The petals of the Tropwolum majus are obtuse.

OCCIPITAL. Occipitalis. Belonging to the occi-put or back part of the head.

Occipital bone. Os occipitis; Os memoriæ; Os nervosum; Os basilare. This bone, which forms the posterior and inferior part of the skull, is of an irregular figure, convex on the outside and concave inter-nally. Its external surface, which is very irregular, serves for the attachment of several muscles. It affords several inequalities, which sometimes form two semicircular hollows separated by a scabrous ridge. The inferior portion of the hone is stretched forwards in form of a wedge, and hence is called the cunciform process, or basilary process. At the base of this process, situated obliquely on each side of the foramen cess, situated obliquely on each side of the foramen magnum, are two flat, oblong protuberances, named condules. They are covered with cartilage, and serve for the articulation of the head with the first vertebra of the neck. In the inferior portion of this bone, at the basis of the cranium, and immediately behind the cuneiform process, we observe a considerable hole, through which the medulla oblongata passes into the through which the medulla oblongata passes into the spine. The nervi accessorii, the vertebral auteries, and sometimes the vertebral veins likewise, pass through it. Man being designed for an erect posture, this foramen magnum is found nearly in the middle of the basis of the human cranium, and at a pretty equal distance from the posterior part of the occiput, and the anterior part of the lower jaw; whereas in quadrupeds it is nearer the back part of the occiput. Beging the bale there are four other smaller terminal. sides this hole, there are four other smaller foramina, viz. two before, and two behind the condyles. The former serve for the transmission of the ninth pair of nerves, and the two latter for the veins which pass from the external parts of the head to the lateral sinu-On looking over the internal surface of the os occipitis, we perceive the appearance of a cross, formed cipitis, we perceive the appearance of a cross, formed by a very prominent ridge, which rises upwards from near the foramen magnum, and by two transverse sinu-osities, one on each side of the ridge. This cross occasions the formation of four fosse, two above and two below the sinuosities. In the latter are placed the lobes of the cerebellum, and in the former the posterior lobes of the brain. The two sinuosities serve to re-ceive the lateral sinuses. In the upper part of this bone is seen a continuation of the sinuosity of the longitudinal sinus; and at the basis of the cranium we observe the inner surface of the cuneiform process made concave, for the reception of the medulia oblongata.

The occipital bone is thicker and stronger than any of the other bones of the head, except the petrous part of the ossa temporum: but it is of unequal thickness. At its lateral and inferior parts, where it is thinnest, it is covered by a great number of muscles. The reason for so much thickness and strength in this bone, seems to be, that it covers the cerebellum, in which the least wound is of the utmost consequence; and that it is, by its situation, more liable to be fractured by falls than any other bone of the cranium. For if we fall forwards, the hands are naturally put out to prevent the forehead's touching the ground; and if on one side, the shoulders in a great measure protect the sides of the head; but if a person fall backwards, the hind part of the head consequently strikes against the earth, and of the head consequently strikes against the earth, and that too with considerable violence. Nature therefore has wisely constructed this bone so as to be capable of the greatest strength at its upper part, where it is the most exposed to injury. The os occipitis is joined, by means of the cuneiform process, to the sphenoid bone, with which it often ossifies, and makes but one bone in those who are advanced in life. It is connected to the parietal bones by the lambdoidal suture, and to the temporal bones by the additamentum of the temporal

into the cavity at the root of the great trochanter, after adhering to the adjacent part of the gapsular ligrament of the joint. This muscle rolls the os femous solidarely at home are received into the superior oblique processes means of this hone. The two condyles of the occipi-tat home are received into the superior oblique processes of the atlas, or first vertebra of the neck, and it is by means of this arriculation that a certain degree of motion of the head backwards and forwards is performed. But it allows only very little motion to either side; and But it allows only very little motion to either side; and still less of a circular motion, which the head obtains principally by the circumvolution of the atlas on the second vertebra, as is described more particularly in the account of the vertebra. In the feetus, the os oc-cipitis is divided by an unossified cartilaginous sub-stance, into four parts. One of these, which is the longest, constitutes all that portion of the bone which is above the formance measure. Face others which is above the foramen magnum; two others, which are much smaller, compose the inside of the foramen magnum, and include the condyloid processes; and the fourth is the cuneiform process. This last is somefourth is the culciform process. I has last is sometimes not completely united with the rest, so as to form one bone, before the sixth or seventh year.

OCCIPITA'LIS. See Occipito frontalis and Occi-

OCCIPITO. Names compounded of this word be-

long to the occiput.

Occiptions of Albinus. Digastricus cranii; Epi-cranius, of Albinus. Frontalis et occipitalis, of Wins-low and Cowper; and Occipito-frontal, of Dumas. A single, broad, digastric muscle, that covers the cranium, pulls the skin of the head backwards, raises the eye brows upwards, and at the same time, draws up and wrinkles the skin of the forehead. It arises from the posterior part of the occiput, goes over the upper part of the os parietale and os frontis, and is lost in the

O'CCIPUT. The hinder part of the head.

OCCLUSUS. Shut up. Applied to the florets of the fig, which are shut up in the fleshy receptacle that forms

OCCULT. Occultus. Hidden: been much used by writers that had not clear ideas of what they undertook to explain; and which served therefore only for a cover to their ignorance: hence, occult cause, occult quality, occult disease.

(From οχεω, to carry.) A vehicle, or OCHE MA. thin fluid.

OCHETEU'MA. (From oxeros, a duct.) The nostril. O'CHETUS. (From οχίω, to convey.)

act. The urinary or abdominal passages A canal or

O'CHEUS. (From oxew, to carry.) The bag of the scrotum

O'CHRA. (From ωχρος, pale: so named because it is often of a pale colour.)

1. Ochre. An argillaceous earth impregnated with iron of a red or yellow colour. The Armenian bole, and other earths, are often adulterated with ochre.

and other earns, are other adulticated with confec-2. The forepart of the tibia. OCHROITS. See Cerite. O'GRUS. (From wypos, pale: so called from the pale muddy colour in its flowers.) A leguminous plant,

or kind of pulse. OCHTHO'DES.

Ochtho'des. (From  $o\chi\theta os$ , importing the tunid lips of ulcers, callous, tunid.) An epithet for ulcers, whose lips are callous and tunid, and consequently difficult to heal.

OCIMA'STRUM. (Diminutive of ocimum, basil.)

OCHAR STRUM. (Diffinitive of colors, 1981). Wild white campion, or basil.

OCREA. A term used by Rottball, to the membrane that enfolds the flower-stalks in Cyperus, and which Sir J. Smith thinks is a species of bractea.

OCTA'NA. (From octo, eight.) An erratic intermitting fever, which returns every eighth day.

OCTANDRIA. (From oxro, eight, and avno, a husband.) The name of a class of plants in the sexual system of Linnens, consisting of those which have hermaphrodite flowers, furnished with eight stamina.

OCTA'VUS HUMERI. The Teres minor.

OCTAVUS HUMERI PLACENTINI. The Teres minor. Col La RES COMMUNES. called Motores oculorum. A name for the nerves OCULA RIA.

OCCLARIA. From condus, the eye: so called from its user in disorders of the eye.) See Euphrasia. OCCLAS. The eye. See Eye.
OCCLAS BOYINGS. See Hydrophthalmia.
OCCLAS BOYINGS. See Chrysanthamum leucanthemum.

Oculus Bubulus. See Hydrophthalmia. Oculus Christi. Austrian flea-bane: a species of Inula, sometimes used as an adstringent by continental physicians.

OCULUS BLEPHANTINUS. A name given to Hy drophthalmia.

Oculus Genu. The knee-pan.
Oculus Lachrymans. The Epiphora.
Oculus Mundi. A species of Opal, generally of a yellowish colour. By lying in water it becomes of an

yellowish colour. By lying in water it becomes of an amber colour, and also transparent.

Oculi adductor. See Rectus interrus oculi.

Oculi attollers. See Rectus superior oculi.

Oculi depressor. See Rectus inferior oculi.

Oculi depressor. See Rectus inferior oculi.

Oculi devator. See Rectus superior oculi.

oculi.

OCULI OBLIQUUS MAJOR. See Obliquus superior See Obliquus inferior

Uculi obliquus minor.

O'CYMUM. (From wrvs, swift: so called from its mick growth.) Ocymum. The name of a genus of quick growth.) Ocymum. The name of a genus of plants in the Linnean system. Class, Didynamia;

Order, Gymnospermia.

OCYMUM BASILICUM. The systematic name of the common or citron basil. Basilicum. Ocimum—foliis evetis glabris; calycibus ciliatis, of Linnæus. This plant is supposed to possess nervine qualities, but is seldom employed but as a condiment to season high dishes, to which it imparts a grateful odour and taste

OCYMUM CARYOPHYLLATUM. Ocimum minimum of Caspar Bauhin. Small or bush basil. This plant is mildly balsamic. Infusions are dvank as tea, in catarrhous and uterine disorders, and the dried leaves are made into cephalic, and sternutatory powders. are, when fresh, very juicy, of a weak aromatic and very mucilaginous taste, and of a strong and agreeable Opaxi'smos. (From clove, a tooth.) A biting sen-

ODAXI SMOS. (From acost, a toom.) A bring sensation, pain, or tiching in the ginus.

ODONTAGO GOS. (From acost, a tooth, and ayo, to draw.) The name of an instrument to draw teeth, one of which, made of lead, Forrestus relates to have one or which, made of lead, Forrestus relates to have been hung up in the temple of Apollo, denoting, that such an operation ought not to be made, but when the tooth was loose enough to draw with so slight a force as could be applied with that.

ODONTA GRA. (From oboug, a tooth, and aypa, a seigure.)

1. The toothache.

2. The gout in the teeth.

A tooth-drawer.

3. A tooth-drawer.

ODONTA'LGIA. (From odous, a tooth, and alyos, pain.) Odontia; Odaxismus. The toothache. This well-known disease makes its attack by a most violent pain in the teeth, most frequently in the molares, more rarely in the incisorii, reaching sometimes up to the eyes, and sometimes backwards into the cavity of the ear. At the same time, there is a manifest determina-tion to the head, and a remarkable tension and infa-tion of the vessels takes place, not only in the parts next to that where the pain is seated, but over the whole head.

The toothache is sometimes merely a rheumatic affection, arising from cold, but more frequently from a carious tooth. It is also a symptom of pregnancy, and takes place in some nervous disorders. attack persons at any period of life, though it is most frequent in the young and plethoric. From the variety of causes which may produce this affection, it has been named by authors odontalgia cariosa, scorbutica, catarrhalis, arthritica, gravidarum hysterica, stomach-

ica, and rheumatica.
O'DON'FALGIC.

O'DONTALGIC. (Odontalgicus; from οδονταλ-για, the toothache.) Medicines which relieve the toothache.

Many empirical remedies have been proposed for the cure of the toothache, but have not in any degree answered the purpose. When the affection is purely rheumatic, blistering behind the ear will almost always remove it; but when it proceeds from a carious tooth, the pain is much more obstinate. In this case it has been recommended to touch the pained part with a hot iron, or with oil of vitriol, in order to destroy the aching nerve; to hold spirits in the mouth; to put a drop of I

oil of cloves into the hollow of the tooth, or a pill made of camphor, opium, and oleum caryophylli. Others resommend gum mastich, dissolved in oleum terebinthiae, applied to the tooth upon a little cottou. The great Boerhaave is said to have applied camphor, opium, oleum caryophylli, and alkohol, upon cotton. The caustic oil which may be collected from writing agree rolled up tight any become paper, rolled up tight, and set fire to at the end, will paper, forted up ugin, and set are to at the end, with sometimes destroy the exposed nervous substance of a hollow tooth. The application of radix pyrethri, by its power of stimulating the salivary glands, either in substance or in the ture, has also been attended with good effects. But one of the most useful applications of this kind, is strong nitrous acid, diluted with three or four times its weight of spirit of wine, and introor tour times its weight of spirit of wine, and intro-duced into the hollow of the tooth, either by means of a hair pencil or a little cotton. When the constitution has had some share in the disease, the Peruvian bark has been recommended, and perhaps with much jus-tice, on account of its tonic and antiseptic powers. When the pain is not fixed to one tooth, leeches applied to the gum are of great service. But very often all the foregoing remedies will fail, and the only infallible cure is to draw the tooth.

ODONTIA. The name of a genus of diseases in Good's Nosology. Class Caliaca; Order, Enterica. Pain, or derangement of the teeth or their involucres. It has seven species, viz. Odontia dentitionis; dolo-rosa; stupores; deformis; edentula; incrustans; ex-

ODONTIASIS. (From οδοντιαω, to put forth the eth.) Dentition, or cutting teeth. See Dentition teeth.) D and Teeth.

(From odovs, a tooth.) Remedies for ODO'NTICA. pains in the teeth

pains in the teeth.

ODONTIRRHCE'A. (From odous, a touth, and psu, to flow.) Bleeding from the socket of the jaw, after drawing a touth.

ODO'NTIS. (From odous, a touth: so called because its decoction was supposed useful in relieving the touthache.) A species of lyclimis.

ODONTI'TIS. Inflammation of a touth. See

Odontalgia.

ODONTOGLY'PHUM. (From οδους, a tooth, and γλυφω, to scrape.) An instrument for scaling and

Soraping intereem.

ODONTOID. (Odontoides; from οδους, a tooth, and ειδος, form; because it is shaped like a tooth.)

Tooth-like. See Dentatus.

ODONTOLUTHOS. (From οδους, a tooth, and λιθος, a stone.) The tartar, or stony crust upon the teath

ODONTOPHY'IA. (From οδους, a tooth, and φυω, to grow.) Dentition, or cutting teeth.
ΟΦΟΝΤΟΤΚΙ΄ΜΜΑ. (From οδους, a tooth, and τριδω, to wear away.) A dentifrice, or medicine, to clean the teeth.

ODORIFEROUS. (From the smell which the secretion from them has.) Some glands are so called.
ODORIFEROUS GLANDS. Glandulæ odoriferæ. These

glands are situated around the corona glandis of the male, and under the skin of the labia majora and nym-phæ of females. They secrete a sebaceous matter, which emits a peculiar odour.

ODOUR. Smell. This, which is the emanation of an odoriferous body, is generally ascribed to a portion of the body itself, converted into vapour: but from some experiments lately instituted it would seem probable, that in many cases the odour is owing not to the substance itself, but to a gas or vapour resulting from its combination with an appropriate vehicle, capable of diffusion in space.

Œ'Δ. (Οιη: from οιω, to bear; so named from its fruitfulness.) The service tree, Cratægus termi-

ECONOMY. (Economia: from οικος, a house, and νομος, a law.) Εconomia animalis. The conduct of nature in preserving bodies and following her usual order; hence animal economy and vegetable сесоношу, &с.

execution, &c. C.

EDE MA. (From οιδεω, to swell.) A synonyme of ansacrea. See Ansacrea.

EDEMATO DES. (From οιδεω, to swell, and είδος resemblishee.) Like to an edema.

EDEMOSA RCA. (From οιδραμα, a swelling, and αρβ, flesh.) A tumour mentioned by Severinus, of a middle nature, between an adema and sarcoma.

CENA'NTHE. (From ouros, wine, and as flower; so called because its flowers smell like the

The botanical name of a genus of the umbelliferous plants. Class. Pentandria, Order, Digunta.

2. The pharmacopæial name of the hemlock drop.

See Enanthe crocata.

The hemlock dropwort. CENANTHE CROCATA. Enanthe—charophult folus of Linnaus. An active poison that has too often proved fatal, by being eaten in mistake instead of water-parsnip. The juice nevertheless, cautiously exhibited, promises to be an efficacious remedy in inveterate scorbutic cruptions. The root of this plant is not unpleasant to the taste, and esteemed to be most deleterious of all the vegetables which this country produces. Mr Howel, Surgeon at Haverfordwest, relates, that "eleven French prisoners had the liberty of walking in and about the town of Pembroke. Three of them being in the fields a little before noon, dug up a large quantity of this plant, which they took to be wild celery, to eat with their bread and butter for dinner. After washing it, they all three ate, or rather tasted of the roots. As they were entering the town, without any previous nothey were entering the town, without any particle of sickness at the stomach, or disorder in the head, one of them was seized-with convulsions. The other two ran home, and sent a surgeon to him. The surgeon endeavoured first to bleed, and then to vomit him; but those endeavours were fruitless, and he died presently. Ignorant of the cause of their comrade's death, and of their own danger, they gave of these death, and of their own danger, they gave of these roots to the other eight prisoners, who are of them with their dinner. A few minutes afterward the remaining two who gathered the plants were seized in the same manner as the first, of which one died: the other same manner as the hist, of which one dued: the other was bled, and a vomit, with great difficulty, forced down, on account of his jaws being, as it were, locked together. This operated, and he recovered, but was fome time affected with duzziness in his head, though not sick, or the least disordered in the stomach. not sick, or the reast disordered in the stomach. The other eight being bled and vomited innediately, were soon well." At Clanmell, in Ireland, eight boys mis taking this plant for water-parsnip, at e plentfully of its roots. About four or five hours after the eldest boy became suddenly convulsed, and deed, and before the next morning four of the other boys died in a similar manner. Of the other three, one was manuacal se veral hours, another lost his hair and nails, but the third escaped unhuit. Stalpaart Vander Wiel men tions two cases of the fatal effects of this root; these however, were attended with great heat in the throat however, were attended with great near in the thread and stomach, sickness, vertigo, and purging: they both died in the course of two or three hours after cating the root. Aften, in his Synopsis Mediciner, also relates, that four children suffered greatly by eating this poison. In these cases great agony was experienced before the convulsion supervened, vomitings likewise came on, which were encouraged by large draughts of oil and warm water, to which their reco The late Sir William Watson, who very is ascribed. refers to the instances here cited, also says, that a Dutchman was poisoned by the leaves of the plant Dutchman was poisoned by the leaves of the pain boiled in pottage. It appears, from various authorities, that most brute animals are not less affected by this poison than man: and highlitoot informs us, that a spoonful of the juice of this plant given to a dog, rendered him sick and stupid but a goat was observed to eat the plant with impunity. The great virules lence of this plant has not, however, prevented it from being taken medicinally. In a letter from Dr. Poulteney to Sir William Watson, we are told that a severe and inveterate cutaneous disorder was cured by the juice of the root, though not without exciting the most alarming symptoms. Taken in the dose of a spoonful, alarming symptoms. Taken in the dose of a spoonful, in two hours afterward, the head was affected in a very extraordinary manner, followed with violent sickness and vomiting, cold sweats, and rigors; but this did not deter the patient from continuing the medicine, in somewhat less doses, till it effected a cure.

ŒΝΑ' REA. (Οιναρεη: from οιναρα, the cuttings of vines.) The ashes prepared of the twigs, &c. of

vines

ŒNELE'UM. (From otvos, wine, and thatov, oil.) A mixture of oil and wine.

ENO'GALA. (From οινος, wine, and γαλα, milk.) A sort of potion made of wine and milk. According to some, it is wine as warm as new milk

tenno garum, peroni otros, wine, and γαρον, garum.)
A mature of wine and garum.

(ENO MELI (From ανος, wine, and μελε, honey.)
Mead, or wine, made of honey, or sweetened with

honey.

(Exo γει. (From array, wine.) The great jubebtree. The pince of the fruit is like that of the grape.

(EXO STA GMA. (From array, wine, and γαζω, to distri.) Sprit of wine.

(Exo γεικα. (From array, wine: so called because its dried roots smell like wine.) A species of lysima-

CENOTHIONIC ACID. (Enothionicus; otros, wine.) An acid produced during the distillation of sulphuric ather, and found in the residue according to Sertuerner.

CENUS. (From ouros, wine.) Wine.

CENUS ANTHINOS. Flowery wine. Galen says it is

Cenos anthosmeas, or wine impregnated with flowers, in which sense it is an epithet for the Cyccon.

ŒNUS ANTHOSMIAS. (From arthos, a flower, and

ogun, a smell.) Sweet-scented wine.

ENUS APEZESMENTS. A wine heated to a great degree, and prescribed with other things, as garlic, salt, milk, and vinegar,

CENTS APOD STORE Wine in which the dais, or tæda, hath been boiled. ŒNUS DEUTERUS.

Wines of the second pressing. Wine diffused in larger CENUS DIACHEOMENUS. vessels, cooled and strained from the lees, to render it thinner and weaker; wines thus drawn off are called saccus, and saccata, from the bag through which they strained.

Wine with milk, or wine ŒNUS GALACTODES. made as warm as new milk.

(ENUS MALACUS. Enus malthacus. Soft wine. Sometimes it means weak and thin, opposed to strong wine; or mild in opposition to anstere

CENUS MELICIROOS. Wine in which is honey.

CENUS GENODES. Strong wine.

ŒNUS STRAPHIDIOS LEUCOS. White wine made from raisins.

(ENUS TETHALABMENOS. Wine mixed with sea-(ESOPHAGATUS. (From oloopayos, the gullet.)

The muscle forming the sphincter æsophagi. (From οισοφαγος, the gullet.) (Esophagi smus.

Difficult swallowing, from spasin

CESO PHAGUS. (Esophagus, i. in : from ow. to carry, and  $\phi a_1 \omega$ , to cat because it carries the food into the stomach.) The membranous and muscular tube that descends in the neck, from the pharynx to the stomach. It is composed of three tunics, or membranes, viz. a common, muscular, and mucous. Its arteries are branches of the esophageal, which arises from the aorta. The veins empty themselves into the vena azygos. Its nerves are from the eighth pair and great intercostal; and it is every where under the internal or mucous membrane supplied with glands that separate the mucus of the esophagus, in order that the masticated bole may readily pass down into the sto-

ŒSTROMA'NIA. (From o15005, the pudenda of a woman, and µaivoµai, to rage.) A furor uterinus. See

CESTRUM. (From æstrus, a gad-bee: because by its bite, or sting, it agitates cattle.) Estrum venereum The orgasm, or pleasant sensation, experienced during

ŒSTRUM VENEREUM. 1. The clitoris is so called, as being the seat of the sensation.

The sensation is also so called.

2. The sensation is also so called. CE-sype. From act, a sheep, and comos, sordes.) CE-sypos: CE-sypos: CE-sypos. It frequently is met with in the ancient Pharmacy, for a certain oily substance, boiled out of particular parts of the fleeces of wool, as what grows on the flank, neck, and parts most used to sweat.

O'FFA ALBA. (From phath, a fragment, Hebrew.) Van Helmont thus calls the white coagulation which arises from a mixture of a rectified spirit of wine, and of urine; but the spirit of urine must be distilled from well-fermented urine; and that must be well dephleg else it will not answer.

OFFICINAL. (Officinalis; from officina, a shop.)
Any medicine, directed by the colleges of physicians to be kept in the shops, is so termed.

Offusca'tio. The same as Amaurosis.
OIL. (Oleum; from olea, the olive: this name be-

ing at first confined to the oil expressed from the olive. Oil is defined, by modern chemists, to be a proper juice of a fat or unctuous nature, either solid or fluid, indissoluble in water, combustible with flame, and volatile in different degrees. Oils are never formed but by on different degrees. Ohe are never formed but by organic bodies; and all the substances in the mineral kingdom, which present oily characters, have originated from the action of vegetable or animal hird. They are distinguished into fat, and essential oils; under the former head are comprehended oil of olives, almonds, rape, ben, linseed, hemp, cocoa, &c. Essential oils differ from fat oils by the following characters their smell is strong and aromatic; their volatility is such that they rise with the heat of boiling water, and their taste is very acrid; they are likewise much more combustible than fat oils; they are obtained by pressure, distillation, &c. from strong-smelling plants, as that of peppermint, aniseed, caraway, &c. The use of fat oils in the arts, and in medicine, is very considerable; they are medicinally prescribed as relaxing, softening, and laxative remedies; they enter into many medical compounds, such as bilsams, unguents, plas-ters, &c. and they are often used as food on account of the muchage they contain. See Olea. Essential oils are employed as cordial, stimulant, and antispasmodic remedies.

[" Oil, animal. The proximate principles of the anirfal creation consist, like those of vegetables, of a few elementary substances, which, by combination in various proportions, give rise to their numerous varieties. Carbon, hydrogen, oxygen, and nitrogen, are the principal ultimate elements of animal matter; and phosphorus and sulphin are also often contained in it.

The presence of introgen constitutes the most striking peculiarity of animal, compared with vegetable bodies; but as some vegetables contain nitrogen, so there are certain animal principles, into the composition of which

it does not enter.

The presence of nitrogen stamps a peculiarity upon the products obtained by the destructive distillation of animal matter, and which are characterized by the pre sence of ammonta, formed by the union of hydrogen with the nitrogen. It is sometimes so abundantly generated as to be the leading product; thus, when horns, hoofs, or bones, are distilled per so, a quantity of solid carbonate of ammonta, and of the same substance combined with empyreumatic oil, and dissolved in wacombined with empereurate the pharmaceutical prepara-tions called spirit and salt of hartshora, and Dipel's animal oil. Occasionally the acetic, benzoic, and some other acids, are formed by the operation of heat on ani-mal bodies, and these are found united to the animomal bodies, and these are found united to the ammomia; cyanogen and hydrocyanic acid frequently occur."—Webs. Man. Chem.—A.]
Oil, atterial. See Oleum athereum.
Oil, almond. See Jamygdalus.
Oil of allspice. See Oleum pimenta.
Oil of amber. See Oleum succini.

Oil of caraway. See Oleum carui. Oil, castor. See Ricinus communis

Oil, castar. See Ricenus communis.
Oil of chamomile. See Oleum anthemidis.
Oil of jumper. See Oleum jumperi.
Oil of lavender. See Oleum lavendulæ.
Oil of linesed. See Oleum mavendulæ.
Oil of mace. See Oleum macis.
Oil, olive. See Oleu europaæ.
Oil of origanum. See Oleum origani.
Oil, palm. See Cocos butyracea.
Oil of penyroyal. See Oleum pulegii.
Oil of peppermint. See Oleum menthæ piperitæ.
Oil, rock. See Petroleum.

Oil, rock. See Petroleum.

Oil of spearmint. See Oleum mentha viridis. Oil, sulphurated. See Oleum sulphuratum. Oil of turpentine. See Oleum terebinthina rectifi-

Oil of vitriol. See Sulphuric acid.
OINTMENT. See Unguentum.
OISANITE. Pyramidal ore of titanium.

OLDENLANDIA. (In honour of H. B. Oldenland, a Dane, who made a visit to the Cape of Good Hope. about the year 1695, for the purpose of collecting plants, where he soon after died. Linnaus described many plants from his Herbarium.) The name of a genus of plants. Class Pentandria; Order, Digynia.

OLDENLANDIA UMBELLATA. The roots of this plant

which grows wild on the coast of Coromandel, and is also cultivated there, are used by dyers, and calico printers, for the same purpose as madder with us, giving the beautiful red so much admired in the Madras

O'LEA. The name of a genus of plants in the Lin-OLEA. The name of a genus or plants in the Lin-mean system. Class, Monandria; Order, Monogynia. OLEA EUROPE. The systematic name of the plant from which the olive oil is obtained. Oliva; Olea sativa. Olea—joliis lanceolatis integerrimis racemis audiaribus coarctutis, of Linneus. The olive-tree in all ages has been greatly celebrated, and held in peculiar estimation, as the bounteous gift of heaven; was formerly exhibited in the religious ceremonies of the Jews, and is still continued as emblematic of peace and plenty. The varieties of this tree are numerous, distinguished not only by the form of the leaves, but also by the shape, size, and colour of the fruit; as the large Spanish olive, the small oblong Provence olive, &c. &c. These, when pickled, are well known to us by the names of Spanish and French olives, which are extremely grateful to many stomachs, and said to excite appetite and promote digestion; they are prepared from the green unripe fruit, which is repeatedly steeped in water, to which some quicklime or alkaline salt is added, in order to shorten the operation: after this, they are washed and preserved in a pickle of common salt and water, to which an aromatic is somecommon salt and water, to which an aromatic is sometimes added. The principal consumption, however, of
this fruit is in the preparation of the common salad oil,
or oleum olivæ of the pharmacopoias, which is ob
tained by grinding and pressing them when thoroughly
ripe: the finer and purer oil issues first by gentle pressure, and the interior sorts on heating what is left, and
pressing it more strongly. The best olive oil is of a
bright pale amber colour, bland to the taste, and without any smell: it becomes rancid by age, and sooner
if kept in a warm situation. With regard to its utility,
oil, in some shape, forms a considerable part of our
food, both animal and vegetable, and affords much
nourishment. With some, however, oily substances do food, both animal and vegetains, and anoths much nourishment. With some, however, oily substances do not units with the contents of the stomach, and are frequently brought up by eructation; this happens more especially to those whose stomachs abound with acid.—Oil, considered as a medicine, is supposed to correct acrimony, and to lubricate and relax the fibres; and, therefore, has been recommended internally to obviate the effects of various stimuli, which produce irritation, and consequent inflammation: on this ground it has been generally prescribed in coughs, catarrhal affections, and erosions. The oil of olives catarrhal affections, and erosions. The oil of olives is successfully used in Switzerland against the tania osculis superficialibus, and it is in very high estimation in this and other countries against nephritic pains, spasms, colic, constipation of the bowels, &c. Externally it has been found a useful application to bites and sings of various poisonous animals, as the mad dog, several serpents, &c. also to burns, tumours, and other affections, both by itself, or unixed in liminents or poulities. Oil rubbed over the body is said to be of great service in dropsies, particularly ascites. Olive oil enters several officinal compositions, and when united with water, by the intervention of alkali, is usually given in coughs and hoarsenesses

(From oleum, oil.) A thin liniment OLEA'MEN. composed of oils.

OLEA'NDER. (From olea, the olive-tree, which it sembles.) The rose-bay. resembles.) (Diminutive of olea, the olive-tree.) OLEA STER.

The wild olive.

OLE CRANON. (From when, the ulna, and kepton, the head. The elbow, or process of the ulna, upon which a person leans. See Ulna.

OLE FLANT GAS. See Carburetted hydrogen gas.
OLE (ACID. "When potassa and hog's lard are saponified, the margarate of the alkali separates in the saponned, the margarate of the arkan separates in the form of a pearly looking solid, while the fluid fat remains in solution, combined with the potassa. When the alkah is separated by tartaric acid, the oily When the alkali is separated by tartiar acts, incompringing of fat is obtained, which Chevreuil purifies by saponifying it again and again, recovering it two or three times; by which means the whole of the margarine is separated. As this oil has the property margarine is separated. margarine is separated. As this oil has the property of saturating bases and forming neutral compounds, he has called it oleic acid."

O'LENE. ( $\Omega \lambda c m_i$ ) The cubit, or ulas OLEOSA CCHARUM. (From oleum, oil, and according to the control of the

charum, sugar.

OLERACEUS. (From oleo, to grow.) Holeraceus.

Partaking of the nature of pot-herbs.

OLERACEA. (From olus, a pot-herb.) of an order of plants in Linnaus's Fragments of a Natural Method, consisting of such as have incomplete inelegant flowers, heaped together in the calyces; as beta, chenopodium, spinacia, &c.
O'LEUM. See Oil.

OLEUM. See Ch.

OLEUM ABIETINUM. The resinous juice which exudes spontaneously from the silver and red firs. It is supposed to be superior to that obtained by wounding the

OLEUM ATHEREUM. Æthereal oil. Oleum vint. After the distillation of sulphuric æther, carry on the distillation with a less degree of heat until a black froth begins to rise; then immediately remove the retort from the fire. Add sufficient water to the liquor in the retort, that the oily part may float upon the surface. Separate this, and add to it as much lime-water as may be necessary to neutralize the adherent acid, and shake them together. Lastly, collect the athereal oil which separates. This oil is used as an ingredient in the compound spirit of ather. It is of a yellow colour, less volatile than ather, soluble in alkohol, and insoluble in water

OLEUM AMYODALAR. See Amygdalus communis.
OLEUM AMYODALARUM. See Amygdalus communis.
OLEUM ANIMALE. Oleum animale Dippelii. An
empyreumatic oii obtained by distillation from bones and animal substances. It is sometimes exhibited as an antispasmodic and diaphoretic, in the dose of from ten to forty drops.

OLEUM ANIMALE DIPPELII. See Oleum animale.
OLEUM ANIM. Formerly Oleum essentiale anis;
Olloum essentiale anisi. Oil of anise. The essential
oil of aniseed possesses all the virtues attributed to the anisum, and is often given as a stimulant and carminative, in the dose of from five to eight drops mixed

with an appropriate vehicle. See Propuella ansum.
OLEUM ANTHEMIDIS. Oil of chamomile, formerly called oleum e floribus chamæmeli. See Anthemis nobilis

OLEUM CAMPHORATUM. See Linimentum camphora OLEUM CARPATHICUM. A fine essential oil, distilled from the fresh cones of the tree which affords the com-

mon turpentine. See Paus sylvestris.

OLEUM CARUI. Formerly called Oleum essentiale eminibus carui. The oil carui; Oleum essentiale e seminibus carui. The oil of caraways is an admirable carminative, diluted with rectified spirit into an essence, and then mixed with any proper fluid. See Carum.

OLEUM CARYOPHYLLI AROMATICI. A stimulant and aromatic preparation of the clove. See Eugenia cary-

ophyllata.

OLEUM CEDRINUM. Essentia ae cedro. The oil of the peel of citrons, obtained, without distillation, in

OLEUM CINNAMOMI. A warm, stimulant, and delicious stomachic. Given in the dose of from one to three drops, rubbed down with some yelk of egg, in a three drops, rubbed down with some yelk of egg, in a little wine, it allays violent emotions of the stomach from morbid irritability, and is particularly serviceable in debility of the prime vize, after cholera.

OLEUM CORNU CERVI. This is applied externally as a stimulant to paralytic affections of the limbs.

OLEUM GABLANUM. See Petroleum rubrum.

OLEUM JUNIPERI. Formerly called Oleum essentiale symmers pages 20 (1994) essentiale symmers.

juniperi bacca; Oleum essentiale e baccis juniperi. Oil of juniper. Oil of juniper-berries possesses stimulant, carminative, and stomachic virtues, in the dose of from two to four drops, and in a larger dose proves It is often administered in the cure of dropsical complaints, when the indication is to provoke

the urinary discharge. See Juniperus communis.

OLEUM LAVENDULE. Formerly called Oleum essentale lavendule; Oleum essentiale effortivis lavendule.
Oil of lavender. Though mostly used as a perfume, this essential oil may be exhibited internally, in the dose of from one to five drops, as a stimulant in nervous headaches, hysteria, and debility of the stomach.

See Lavenda spica.

OLEUM LAURI. Oleum laurinum. An anodyne and antispasmodic application, generally rubbed on sprains and bruises unattended with inflammation.

OLEUM LIMONIS. The essential oil of lemons pos-

An essential oil ground up with sesses stimulant and stomachic powers, but is principally used externally, mixed with ointments, as a perfume

Linseed oil is emollient and demulcent. OLEUM LINI. Linseed oil is emollient and dem in the dose of from half an ounce to an ounce. frequently given in the form of clyster in colics and obstipation. Cold-drawn linseed-oil, with lime-water obstipation. Containwir insection, with inne-water and extract of lead, forms, in many instances, the best application for burns and scalds. See *Linum usitatis*.

OLEUM LUCH PISCIS. See Esox lucius.
OLEUM MACIS. Oleum myristica expressum. Oil
F mace. A fragrant sebaceous substance, expressed of mace. in the East Indies from the nutmeg. There are two in the East mates from the nutner. If the best is brought in stone jars, is somewhat soft, of a yellow colour, and resembles in smell the nutner. The other is brought from Holland, in flat square cakes. The weak smell and faint colour warrants our supposing it to be the former kind sophisti-Their use is chiefly external, in form of plaster,

Unguent, or liminent. See Myristica moschata.

OLEUM MALABATHRI. An oil similar in flavour to that of cloves, brought from the East Indies, where it is said to be drawn from the leaves of the cassia-tree.

is said to be drawn from the leaves of the cassia-tree. OLEUM MENTHE PIERITE. Formerly called Oleum essentiale menthe piperitidis. Oil of peppermint possesses all the active principle of the plant. It is mostly used to make the simple water. Mixed with rectified spirit it forms an essence, which is put into a variety of compounds, as sugar drope and troches, which are exhibited as stimulants, carming-

troches, which are exhibited as stimulants, carminatives, and stomachies. See Mentha piperita.

OLEUM MENTHE VIRIDIS. Formerly called Oleum
essentiale mentha sativas. Oil of spearmint. This
essential oil is mostly in use for making the simple
water, but may be exhibited in the dose of from two to five drops as a carminative, stomachic, and stimulant.

See Mentha viridis.

OLEUM MYRISTIOA. 'The essential oil of nutmeg is an excellent stimulant and aromatic, and may be exhibited in every case where such remedies are indicated, with advantage. See Myristica moschata.

Cated, with available. See Superior his commonly Olesus wrestree Expression. This is commonly called oil of mace. See Oleum macis.

OLEUM NEROLL. Essentia neroli. The essential oil of the flowers of the Seville orange-tree. It is brought to us from Italy and France.

OLEUM OLIVÆ. See Olca europea.
OLEUM ORIGANI. Formerly called Oleum essentials origani. Oil of origanum. A very acrid and stimu-lating essential oil. It is employed for alleviating the pain arising from caries of the teeth, and for making the simple water of marjoram. See Origanum vulgare.

OLEUM PALM E. See Cocos butyracea.
OLEUM PETR E. See Petroleum.

Oil of allspice. A stimulant and OLEUM PIMENTÆ. aromatic oil. See Myrtus pimenta.

OLEUM PULEGH. Formerly called Oleum essentiale

pulegii. Oil of penny-royal. A stimulant and anti-spasmodic oil, which may be exhibited in hysterical and nervous affections. See Mentha pulegium. nervous affections. See Mentha pulegia:
OLEUM RICINI. See Ricinus communis

OLEUM ROSMARINI. Formerly called Oleum essentiale rosis marini. Oil of rosemary. The essential oil of rosemary is an excellent stimulant, and may be given with great advantage in nervous, and spasmodic

affections of the stomach. See Rosmarinus officinalis.

OLEUM SABINAE. A stimulating emmenagogue: it is best administered with myrrh, in the form of bolus. See Juniperis communis.

OLEUM SASSAFRAS. An agreeable stimulating car minative and sudorific.

OLEUM SINAPEOS. This is an emollient oil, the acrid principle of the mustard remaining in the seed. See Sinapis alba.

Sinapis abba.

OLEUM SUCCINI. Oleum succini rectificatum. Put amber in an alembic, and with the heat of a sand-bath, gradually increased, distil over an acid liquor, an oit, and a salt contaminated with oil. Then redistil the oil a second and a third time. Oil of amber is mostly used externally, as a stimulating application to paralytic limbs, or those affected with cramp and rheumalistim. Hooping-cough, and other convulsive diseases, are said to be relieved also by rubbing the spine with this oil. See Succious in the said see Succious in the said see Succious in the said to be relieved also by rubbing the spine with See Succinum. this oil.

Formerly called Balsamum OLEUM SULPHURATUM. sulphuris simplez. Sulphurated oil. Take of washed sulphur, two ounces; olive oil, a pint. Having heated the oil in a very large iron pot, and the sulphur gradually, sit rithe mixture after sech addition, until they have united. This, which was formerly called simple balsam of sulphur, is an acrid stimulating preparation, and much praised by some in the cure of coughs and other phthisical complaints.

OLEUM SYRIE. A fragrant essential oil, obtained by distillution from the halm of Gilead plant. See Dracesulphur, two ounces; olive oil, a pint. Having heated

distillation from the balm of Gilead plant. See Draco

cephalum moldavica.

OLEUM TEMPLINUM. OLEUM TEMPLINUM. Oleum templinum verum. A terebinthinate oil obtained from the fresh cones of the

Pinus abies of Linnæus.

OLEUM TEREBINTHINÆ RECTIFICATUM. oil of turpentine, a pint; water, four pints. Distil over the oil. Stimulant, diuretic, and sudorific virtues are attributed to this preparation, in the dose of from ten drops to twenty, which are given in rheumatic pains of the chronic kind, especially sciatica. Its chief use inthe curonic kind, especially scratica. Its chief use in-ternally, however, is as an antheminic and styptic. Uterine, pulmonic, gastric, intestinal, and other ha-morrhages, when passive, are more effectually relieved by its exhibition than by any other medicine. Exter-nally it is applied, mixed with ointments and other ap-dications to bruises scrains changed in plications, to bruises, sprains, rheumatic pains, indolent ulcers, burns, and scalds.

OLEUM TERRÆ. See Petroleum

OLEUM VINI. Stimulant and anodyne, in the dose of from one to four drops.

OLEUM VITRIOLI. See Sulphuric acid.
OLFACTORY. (Olfactorius; from olfactus, the sense of smelling.)
Belonging to the organ or sense of smelling.

OLFACTORY NERVE. The first pair of nerves are so termed, because they are the organs of smelling. arise from the corpora striata, perforate the ethmoid bone, and are distributed very numerously on the pituitary membrane of the nose.

OLI'BANUM. (From lebong, Chaldean.) See Ju-

OLIGOTRO PHIA. (From ολιγος, small, and τρεφω, o nourish.) Deficient nourishment. to nourish.) OLISTHE'MA. (From ολισθαινω, to fall out.) A

luxation

OLIVA. See Olea europea. OLIVA'RIS. (From oliva, the olive.) Oliviforms. Resembling the olive: applied to two eminences on the lower part of the medulla oblongula, called corpora

OLIVE. See Olea europea. Olive, spurge. See Daphne mezereum. Olive-tree. See Olea europea.

Other-tree. See Olea curopea.
OLIVE NITE. An ore of copper.
OLIVILE. The name given by Pelletier to the substance which remains after gently evaporating the

substance which remains after gently evaporating the altholoic solution of the gum which exudes from the olive-tree. It is a white, brilliant, starchy powder. OLIVINE. A subspecies of prismatic chrysolite, Its colour is olive-green. It occurs in basalt, greenstone, porphyry, and lava, and generally accompanied with augite. It is found in Scotland, Ireland, France, Bohemia, &c.

OLLA'RIS LAPIS. Pot-stone.

OLOPHLY'CTIS. (From ολος, whole, and φλυκτις, a istule.) A small hot eruption covering the whole

OLUSA'TRUM. (Id est olus atrum, the black herb, from its black leaves.) See Smyrnium olusatrum.
OMA. This Greek final usually imports external

protuberance; as in sarcoma, staphyloma, carcino-

OMA'GRA. (From ωμος, the shoulder, and αγρα, a seizure.) The gout in the shoulder.

OMENTI'TIS. (Omentitis; from omentum, the

caul.) Inflammation of the omentum, a species of pe-

OME'NTUM. (From omen, a guess: so called because the soothsayers prophesied from an inspection of this part.) Epipleon. The caul. An adipose membranous viscus of the abdomen, that is attached to the stomach, and lies on the anterior surface of the intestines. It is thin and easily torn, being formed of a du-plicature of the perironeum, with more or less of fat in-It is distinguished into the great omentum terposed. and the little omentum.

1. The omentum majus, which is also termed omentum gastrocolicum, arises from the whole of the great curvature of the stomach, and even as far as the spiece, from whence it descends loosely behind the abdominal parietes, and over the intestines to the navel, and sometimes into the pelvis. Having descended thus far, its inferior margin turns inwards and ascends again, and is fastened to the colon and the spleen, where its vessels enter.

sels enter.

2. The omentum minus, or omentum hepatico-gastricum, arises posteriorly from the transverse fissure of the liver. It is composed of a duplicature of perito neum, passes over the duodenum and small lobe of the liver: it also passes by the lobulus spigelii and pancreas, proceeds into the colon and small curvature of the process of the colon and small curvature of the colon and small the stomach, and is implanted ligamentous into the esophagus. It is in this omentum that Winslow discesopingus. The discontinuity of the state of the covered a natural opening, which goes by his name. If air be blown in at this foramen of Winston, which is always found behind the lobulus spigelli, between the right side of the liver and hepatic vessels, the duodenum, the cavity of the omentum, and all its sacs, may be distended.

The omentum is always double, and between its lamellæ, closely connected by very tender cellular sub-stance, the vessels are distributed and the fat collected. Where the top of the right kidney, and the lobulus spiwhere the top of the right kinney, and the lobulus spi-gelin of the liver, with the subjuent large vessels, form an angle with the duodenum, there the external mem-brane of the colon, which comes from the peritoneum joining with the membrane of the duodenum, which joining with the membrane of the audoenum, which also rises immediately from the pertioneum lying upon the kidney, enters the back into the transverse fissure of the liver for a considerable space, is continuous with its external coat, contains the gall-bladder, supports the hepatic vessels, and is very yellow and slippery. Behind this membranous production, between the right-blad effect its resultance of the control of th lobe of the liver, hepatic vessels, vena portarum, biliary ducts, aorta, and adjacent duodenum, there is the na-tural opening just mentioned, by which air may be blown extensively into all the cavity of the omentum. From thence, in a course continuous with this membrane from the pyloris and the smaller curvature of the stomach, the external membrane of the liver joins in such a manner with that of the stomach, that the thin membrane of the liver is continued out of the fossa of the venal duct, across the little lobe into the stomach stretched before the lobe and before the pancreas. This little omentum, or omentum hepatico-gustricum, when inflated, resembles a cone, and, gradually becoming harder and emaciated, it changes into a true ligament, by which the æsophagus is connected to the diaphragm But the larger ententian, the ementum gastrocolicum, is of a much greater extent. It begins at the first accession of the right gastro-epiploic artery to the stomach, being continued there from the upper plate of the transverse mesocolon, and then from the whole great curve of the stomach, as far as the spleen, and also from the right convex end of the stomach towards the spleen, until it also terminates in a ligament that ties the upper and back part of the spleen to the stomach. This is the anterior lamina. Being continued down-wards, so actimes to the navel, sometimes to the petvis, it hangs before the intestines, and behind the muscles of the abdomen, until its lower edge, being reflected upon itself, ascends, leaving an intermediate vacuity between it and the anterior lamina, and is continued to a very great extent, into the external membrane of the transverse colon, and, lastly, into the sinus of the spleen, by which the large blood-vessels are received, and it ends finally on the esophagus, under the diaphragm. Behind the stomach, and before the panereas, its cavity is continuous with that of the smaller omentum. To this the omentum-colicum is connected, which arises farther to the right than the first origin of the omentum gastrocolicum from the mesocolon, with the cavity of which it is continuous, but produced solely from the colon and its external membrane, which departs double from the intestine. It is prolonged, and terminates by a conical extremity, sometimes of longer, sometimes of shorter extent, above the intestinum cæcum; for all the blood which returns from the omentum and mesocolon goes into the vena portarum, and by that into the liver The omentum gastrocolicum is furnished with blood from each of the gastro-epiploic arteries, by many descending articulated branches, of which the most lateral are the longest, and the lowest anastomose by minute twigs with those of the colon. It also has branches from the splenic, duodenal, and adipose arte-

The omentum colleum has its arteries from the colon, as also the smaller appendices, and also from small omentum come from the hepatics, and from the small omentum come room the repaires, and from the right and left coronaries. The omentum being lat and indolent, has very small nerves. They arise from the nerves of the eighth pair, both in the greater and less curvatures of the stomach. The arternes of the mesentery are in general the same with those which go mesencery are in general are same win those which go to the intestine, and of which the smaller branches re-main in the glands and fat of the mesentery. Various small accessory arteries go to both mesocolons, from the intercostals, spermatics, lumbars, and caspular to the transverse portion from the splenic artery, and pancreato-duodenalis, and to the left mesocolon, the branches of the aorta going to the lumbar glands. The veins of the omentum in general accompany the arteries, and unite into similar trunks; those of the left part of the gastrocolic omentum into the splenic, and also those of the hepatico-gastric, which likewise sends its blood to the trunk of the yena portarum: those from the larger and right part of the gastro-colic omentum, from the omentum colicum, and from the appendices epiploice into the mesenteric trunk. the veins of the mesentery meet together, and end in the vena portarum, being collected first into two large branches, of which the one, the messenteric, receives the gastro-epiploic vein, the colice media, the ilioco-lica, and all those of the small intestines, as far as the duodenum: the other, which going transversely, inserts itself into the former, above the origin of the duodenum, carries back the blood of the left gastric veins denum, carries back the noon of the eng assire vens, and those of the rectum, except the lowermost, which belongs partly to those of the bladder and partly to the hypogastric branches of the pelvis. The vens which is called harmorrhoidalis interna is sometimes inserted rather into the splenic than into the mesenteric vein. Has the omentum also lymphatic vessels? Certainly there are conglobate glands, both in the little omentum and in the gastrocolicum; and ancient anatomists have observed pellucid vessels in the omentum; and a modern has described them for lacteals of the stomach.

OMENTIM COLICUM. See Omentum

OMENTUM GASTRO-COLICUM. See Omentum

OMENTIA GASTROS GLICUM. See Omenium.
OMO. (From 6405), the shoulder.) Names compounded with this word belong to muscles which are

attached to the scapula. OMOCO TYLE. (From  $\omega_{\mu\sigma\varsigma}$ , the shoulder, and  $\kappa\sigma\tau\nu\lambda\eta$ , a cavity.) The cavity in the extremity of the neck of the scapula, in which the head of the humerus

OMO HYOIDEUS. A muscle situated between the os hyoides and shoulder, that pulls the os hyoides obliquely downwards. Coraco hyoideus of Albinus and Douglas. Scapulo hyodien of Dumas. It arises broad, thin, and fleshy, from the superior costa of the scapula, near the semilunar notch, and from the ligament that runs across it; thence ascending obliquely, it becomes tendinous below the sternocleido-mastoideus, and, growing fleshy again, is inserted into the base of the os

OMOPLA'TA. (From ωμος, the shoulder, and πλατυς, broad.) The bladebone. See Scapula.

OMOPLATO-HYOIDEUS. The same as Omo-hyoideus.

Ono Tocos. (From whos, crude, and TIXTW, to bring

forth.) A miscarriage.

Omo'TRIBES. (From ωμος, crude, and τριβω, to bruise.) Oil expressed from unripe olives.

bruise.) Oil expressed from unripe olives.

OMPHACTENIEM. (From ομφακιον, the juice of unripe grapes.)

Oil expressed from unripe olives.

OMPHACION. (From ομφακιος, an unripe grape.)

Omphacium. The juice of unripe grapes; and by some applied to that of wild apples, or crabs, commonly called Verjuice.

OMPHACITE. A variety of augite of a pale leekgreen colour. It occurs in primitive rocks, with precious grapet in Caripthia.

precious garnet, in Carinthia.

Ο ΜΡΗΛΕΙ΄ΤΙΣ. (From ομφακος, an unripe grape.)

A small kind of gall nut, which resembles an unripe grape.

Stape: OMPHACO'MELI. (From ομφακος, an unripe grape, and μελι, honey.) An oxymel made of the juice of unripe grapes and honey.

OMPHACOA'RPUS. (From ομφαλος, the navel, and καρπος, fruit: so called because its fruit resembles a

navel.) Cleavers. The Galium aperine of Linnaus.

OMPHALOCE'LE. (From ομφακος, the navel, and κηλοη, a tumour.) An umbilical homia. See Her

OMPHALO DES. (From outpalos, a navel, and sicos, resemblance, so named because the cally is executed in the middle like the human navel.) A plant resembling the navel, which the leaf of the cotyledon and hydrocotyle does.

OMPHALOMA NTIA. (From ομφαλος, the navel, and pressure, to prophesy.) The foolish vaticination of μυττεαω, to prophesy.) The foolish vatiemation of midwives, who pretend to foretell the number of the future offspring from the number of knots in the navel. OMPHALOS. (From ομφιελισκω, to roll up.) The navel. See Umbilicus.

navel. See Umbilious. OMPHALOTO MIA. (From ompalos, the navel, and  $\tau \epsilon \mu r \omega$ , to cut.) The division or separation of the navel-string

Ona GRA. (From οναγρος, the wild ass.) 1. An American plant: so called because it is said to tame

wild beasts.

A name for the rheumatism in the clow ONEIRODY'NIA. (From orapov, a dream, and ocurn, auxiety.) Disturbed imagination during sleep. A genus of disease in the class Neuroses; and order Vesania, of Cullen, containing two species.

1. Oneirodynia activa, walking in the sleep

2. Oncirodynia gravans, the incubus, or nightmare. The nervous or indisposed persons are oppressed during sleep with a heavy pressing sensation on the chest, by which respiration is impeded, or the circulation of blood intercepted, to such a degree, as to threaten suffocation. Frightful ideas are recollected on waking, which occupied the dreaming mind. Frequent at tempts are made to cry out, but often without effect, and the horrors and agitations felt by the patient, are inexpressibly frightful. The sensations generally originate in a large quantity of wind, or indigestible matter in the stomach of supper-enters, which, pressing the stomach against the diaphragm, impede respiration, or render it short and convulsed. Inflated intestines may likewise produce similar effects, or mental

There is another species of nightmare mentioned by authors, which has a more dangerous tendency, and this arises from an impeded circulation of blood in the lungs, when lying down, or two great relaxation of the heart and its impelling powers. Epitepsy, apoplexy, or sudden death, are sometimes among the consequences of this species of disturbed sleep. Diseased states of the large vessels, aneurisms, water in the pleura, pe ricardium, or lungs, empyema, &c. are among the most dangerous causes

ONEIRO GMOS. (From ονειρωτ 7ω, to dream.)

Venereal dreams.
ONEIRO'GONOS. (From overloss, a dream, and your), the seed.) So the Greeks call an occasional emission

the seed.) So the Greeks call an occasional emission of the semen in sleep, when it only happens rarely. ONION. See Allum repu. Onion sea. See Seilla. ONI'SCUS. (From 1995, an assess o called because like the asset requires much beating before it is useful.) The stocktish.

2. The slow-worm.

3. The name of a genus of insects of the order Aptera. ONISCUS ASELLUS. The systematic name of the woodlouse: Millepedes; Millepedes. These insects, though they obtain a place in the pharmacopoias, are very seldom used medicinally in this country; they appear to act as stimulants and slight diurctics, and for this purpose they ought to be administered in a much greater dose than is usually prescribed. The expressed juice of forty or fifty living millepedes, given in a mild drink, has been said to cure very obstinate jaundices

ONITIS. (From ovos, an ass, because asses covet

it.) The Origanum vulgare, or wild marjoram.

ONOBRY CHIS. (From συος an ass, and βρυχω, to bray: so called, according to Blanchard, because the smell or taste makes asses bray.) See Hedysarum

ONO NIS. (From oros, an ass: because it interrupts assess when at plongh.) 1. The name of a genue of plants in the Linnacan system. Class, Diadelphia; Order, Decaudria.

2. The pharmacopæial name of the rest-harrow. See

ONONIS ARVENSIS. See Ononis spinosa.

Ononis spinosa. The systematic name of the rest-Orders strategy. The systematic name of the reschargow. Resta bons: Arresta bones; Remora aratra. The roots of this plant have a faint unpleasant smell, and a sweetish, bitterish, somewhat nauscous taste. Their active matter is confined to the cortical part, which has been sometimes given in powder, or other forms, as an aperient and diuretic

forms, as an apertent and universe.

ONOPO RDHEM. (Οροπορόρου: from ονος, an ass, and περέω, to break wind: so named from its being nuch coveted by asses, and from the noise it makes upon pressure.)

1. The name of a genus of plants in Corlor, Post. the Linnwan system. Class, Syngenesia; Order, Polygamia aqualis.

The pharmacopæial name of the cotton thistle.

See Onopordium acanthium.

ONOPORDIUM ACANTHIUM. The systematic name of the cotton-thistle. Carduus tomentosus. The plant distinguished by this name is thus described by Lindistinguished by this hame is thus discribed by the news, Onopordium—calucibus squamosus squamosus squamosus tentibus; folius orato-oblongus, smuates. Its expressed juice has been recommended as a cure for cancer, either applied by moistening but with it, or mixing some simple farinaceous substance, so as to form a poultice, which should be in contact with the disease, and renewed twice a day. disease, and renewed twice a day.

ONO'SMA. (From gaps, a sweet smell or savour.)
The name of a genus of plants. Class, Pentandria,

ONOSMA ECHIODES. The systematic name of the plant, the root of which is called Anchusa lutea in some pharmacopaias. It is supposed to possess emmenagogue virtues.

(From oreg, the nail.) A whitlow at the side of the finger nail.

O'NYX. Oraş, In surgery. Unguis. An abscess, or collection of pus between the lamella of the cornea; so called from its resemblance to the stone called onyx. The diagnostic signs are, a white spot or speck, prominent, soit, and fluctuaring. The species are.

1. Onyx superficiality, arising from inflammation, not dangerous, for it vanishes when the inflammation is re-

solved by the use of astringent collyria.

2. Only profundus, or a deep abscess, which is deeper seated between the lamelle of the comea, sometimes breaking internally, and forming an hypo-pium: when it opens externally, it leaves a fistula upon the cornea; whenever the pus is exsicuted, there remains a leucoma.

names a leucoma.

In mineralogy, Calcedony, in which there is an alternation of white, black, and dark brown layers.

Our DES (From our, an egg, and scoop, a likeness.)

An epithet for the aqueous humon of the eye.

OPACITY. Opacitas. The faculty of obstructing the passage of light.

OPAL. Of this silicious stone there are seven kinds,

according to Professor Jameson. Precious opal. Of a milk white colour, inclining It occurs in small veins in clay porphyry, in Hungary.

2. Common opal, of a milk white colour, found in

Cornwall.

3. Fire opal; the colour of a hyacinth-red, found only in Mexico. Mother of pearl opal, or cacholong, a variety of

calcedony

5. Semi opal, of a white, brown, or gray colour, found in Greenland, Iceland, and Scotland.

6. Jasper opal, or ferruginous opal. This is of a searlet, or gray colour, and comes from Tokay, in Hungary.

7. Wood opal, of various colours, and found in alluvial land at Zatravia, in Hungary.

OPERCULI'M. (Operculum, i. n.; a cover or lid)
The lid or cover of the fringe, called peristomum, of
mosses. It is either convex, accuminate, flat, or permanent, never leaving the fringe: as in Phaseum.
OPHI ASIS. (From opts, a serpent; so called

OPHI ASIS. (From opis, a serpent; so called from the serpentine direction in which the disease travels A species of baldness which comround the head.) mences at the occiput, and winds to each ear, and sometimes to the forehead.

OPHIOGLOSSOI DES. (From οφω) λοσσον, ophioglossum, and ecos, a likeness.) A fungus resembling

Description of the Chromodyla and the Ophioglossum, or adder's tongue.

OPHIOGLO SSUM. (From σφις, a serpent, and γλωσσα, a tongue; so called from the resemblance of its fruit.) The name of a genus of plants. Class, Cryptogamia; Order, Filices Adder's tongue

OPHIORRHIZA. (From out, a serpent, and orga a root; because the plant, says Hermann, is regarded in Ceylon, as a grand specific for the bits of the naja or riband snake.) The name of a genus of plants. Class, Pentandria; Order, Monogynia.
OPHIORRHIZA MUNGOS. The systematic name of the plant, the root of which is called Radix serpentum in the pharmacoperias. Mungos radix. This bitter root is muchesteemed in Java, Sumatra, &c. as preventing the effects which usually follow the bits of the raja, a venomous serpent, with which view ut is causen by them. It is also said to be exhibited medicinally in the cure of It is also said to be exhibited medicinally in the cure of It. It is also said to be exhibited medicinally in the cure of intestinal worms.

OPHIOSCO RODON. (From oois, a serpent, and σκορούνι, garlie; so named because it is spotted like a serpent.) Broad-leaved garlic.

OPHIOSTA PHYLUM. (From οφις, a serpent, and

GPHIOSTAPHYLUM. (From optg, a serpent, and code)a, a berry, so called because screenistieed upon its berries.) White bryony. See Bryonia alba. OPHIO XYLUM. (From optg, and ζυλον; because its root spreads in a ziezag manner like the twisting of a serpent.) The name of a genus of plants. Class, Debt. M. Ground Septembriothy or other than the control of the control

d seipent.) The name of a genus of plants. Class, Pentandra, Order, Monagyma. Seprentine-wood plant. Orthoxylum Serpentine-wood plant. Orthoxylum Serpentine. The systematic name of the tree, the wood of which is terned lignum serpentum. The nature of this root does not appear to be yet ascertained. It is very bitter. In the cure of the bits of sengmons screens and realization designations. the bite of venomous serpents and malignant diseases,

it is said to be efficacious

[\*Ophtres, or Green Porphyry. This is a green stone, which to the naked eye appears homogeneous, and varies in colour from blackshi green to pistachio green. It contains greenish white crystals of feldspar, green. It Communis greens white crystals of lengapar, which, on the polished surface, often appear in parallelograms, and are sometimes cruciform. Its texture is very compact, and its fracture often spintery. In many cases us time green colour is undoubtedly produced by epidote. "This belongs to the green porphyry of the am cents"—Char. Min. A.]

nainy cases its fine green colour is undoubtedly produced by epidone. This belongs to the green porphyry of the aments "—clear. Mm. A.]
O tHINYS. Oppres. 1. The lowest part of the forehead, where the eyebrows grow.
2. An herb, so called because its juice was used to make the harr of the eyebrows black.
OPHTHATAMIA. (From oφθαλμος, the eye. Ophthalactis:
An inflammation of the membranes of the eye, or of the whole built of the eye. The symptoms which characterize this disease are a preformatural reduces of the tunica conjunctiva, owing fernatural redness of the tunica conjunctiva, owing to a furgescence of its blood vessels; pain and heat over the whole surface of the eye, often attended with a secsation of some extraneous body between the eye and eyelid, and a plentiful effusion of tears. these symptoms are commonly increased by motion of the eye, or its coverings, and likewise by exposure to hight. We judge of the depth of the inflammation by the degree of pain produced by light thrown upon the eye. When the pain produced by light is considerable, we have much reason to imagine that the parts at tho bottom of the eye, and especially the retina, are chiefly and, erce versa, when the pain is not much increased by this exposure, we conclude with great probability that the inflammation is confined perhaps entirely to the external covering of the eye. In super-tical affections of this kind too, the symptoms are in general local; but, whenever the inflammation is deepseated, it is attended with severe shooting pains through the head, and fever to a greater or less degree com-monly takes place. During the whole course of the monly takes place. disease there is for the most part a very plentiful flow of tears, which frequently become so hot and aerid as to excoriate the neighbouring parts; but it often happens after the disease has been of some duration, that together with the tears a considerable quantity of a yellow purulent like matter is discharged, and when the inflammation has either spread to the eyelids, or has been seated there from the beginning, as soon as the tarsi become affected, a discharge takes place of a viscid glutinous kind of matter, which greatly adds to the patient's distress, as it tends to increase the inflam-mation, by cementing the eyelids so firmly together as to render it extremely difficult to separate them

Ophthalmia is divided into external, when the inflammation is superficial, and internal, when the inflammation is deep seated, and the globe of the eye

is much affected. In severe ophthalmia two distinct stages are commonly observable the first is attended with a great

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deal of heat and pain in the eye and considerable fobrile disorder; the second is comparatively a chronic affection without pain and fever. The eye is merely weakened, moister than in the healthy state, and more

Ophthalmia may be induced by a variety of exciting causes, such as operate in producing inflammation in other situations. A severe cold in which the eyes are affected at the same time with the pituitary cavities, fauces, and trachea: change of weather; sudden transi fauces, and trachea. Change of Weather, Sudden tran-tion from heat to cold; the prevalence of cold winds, residence in damp or sandy countries, in the hot season; exposure of the eyes to the vivid rays of the sun are causes usually enumerated; and considering these it does not seem extraordinary that ophthalmia should often make its appearance as an epidemic, and afflict persons of every age and sex. Besides these exciting causes, writers also generally mention the suppression of some habitual discharge, as of the menses, bleedings from the nose, from hæmorrhoids, &c. Besides which, inflammation of the eyes may be occasioned by OPHTHA'LMIC. Ophthalmic

Ophthalmicus. Belonging to the

OPHTHALMIC CANGLION. Ganglion ophthalmicum.

Lenticular ganglion. This ganglion is formed in the orbit, by the union of a branch of the third or fourth

OPHI, by the union of a braich of the fifth pair of nerves.

OPHTHALMIC NERVE. Nervus ophthalmicus. Orbital nerve. The first branch of the ganglion or expansion of the fifth pair of nerves. It is from this nerve that a branch is given off, to form, with a branch

of the sixth, the great intercostal nerve.

OPHTHALMODY'NIA. (From οφθαλμος, an eye, OPHTHALMODY MA. (From ophalms, an eye, and obver, pain.) A vehement pain in the eye, without, or with very little redness. The sensation of pain is various, as itching, burning, or as if gravel were between the globe of the eye and lids. The species are

1. Ophthalmodynia rheumatica, which is a pain in the muscular expansions of the globe of the eye, withmation is serous, and rarely produces redness.

2. Ophthalmodynia periodica, is a periodical pain in

the eye, without redness.

3. Ophthalmodynia spasmodica, is a pressing pain in the bulb of the eye, arising from spasmodic contractions of the muscles of the eye, in nervous, hysteric, and hypochondriac persons. It is observed to termi-minate by a flow of tears.

4. Ophthalmodynia from an internal inflammation of the eye. In this disorder, there is a pain and sensation as if the globe was pressed out of the orbit.

- 5. Ophthalmodyna hydrophthalmea. After a great pain in the inferior part of the os frontis, the sight is obscured, the pupil is dilated, and the bulb of the eye appears larger, pressing on the lid. This species is likewise perceived from an incipient hydrophthalmia of the vitreous humour.
- Ophthalmodynia arenosa, is an itching and sensation of pain in the eye, as if sand or gravel were lodged between the globe and lid.
- 7. Ophthalmodynia symptomatica, which is a symptom of some other eye disease, and is to be cured by removing the exciting cause.
- 8. Ophthalmodynia cancrosa, which arises from cancerous acrimony deposited in the eye, and is rarely

OPHTHALMOPO'NIA. (From  $o\phi\theta u\lambda\mu\rho\varsigma$ , the eye, and  $\pi\sigma\nu\epsilon\omega$ , to labour.) An intense pain in the eye, whence the light is intolerable. OPHTHALMOPTO'SIS. (From  $o\phi\theta u\lambda\mu\rho\varsigma$ , an eye, and  $\pi/u\sigma\iota\varsigma$ , a fall.) A falling down of the globe of the eye on the cheek samples or unserted. eye on the cheek, canthus, or upwards, the globe itself being scarce altered in magnitude. The cause is a relaxation of the muscles, and ligamentous expansions of the globe of the eye. The species are:

of the globe of the eye.

1. Ophthalmoptosis violenta, which is generated by a violent contusion or strong stroke, as happens some times in boxing. The eye falls out of the socket on the cheek or canthus of the eye, and from the clongation and extension of the optic nerve occasions immediate blindness.

2. Ophthalmoptosis, from a tumour within the orbit. An exostosis, toph, abscess, encysted tumous, as atheroma, hygroma; or schribus, forming within the orbit, or induration of the orbital adeps, may throw the bulb of the eye out of the socket upwards, downwards, or towards either canthus

3. Ophthalmoptosis, paralytica, or the paralytic ophthalmoptosis, which arises from a palsy of the rectinuscles, whence a stronger power in the oblique muscles of the bulb.

4. Ophthalmoptosis staphylomatica, when the staphyloma depresses the inferior eyelid, and extends on

OPIATE. (Opiatum; from the effects being like that of opium.) A medicine that procures sleep, &c.

See Anadyne
() PION. Οπιον. Opium.
Opi smus. (From οπιον, opium.) An opiate confection

POPUSTHENAR. (From οπισθεν, backwards, and θεδαρ, the palm.) The back part of the hand. OPISTHOCRA'NIUM. (From οπισθεν, backward, and κρανιον, the head.) The occiput, or hinder part

of the head.

OPISTHOCYPHO'SIS. (From οπισθεν, backward, and

κυφωσις, a gibbosity.) A curved spine.

OPISTHO TONOS. (From οπισθεν, backward, and τεινω, to draw.) A fixed spasm of several muscles, so as to keep the body in a fixed position, and bent back-Cullen considers it as a variety of tetanue.

See Tetanus.

O'PIUM. (Probably from οπος, juice; or from opi, O'PIUM. (Probably from oπoς, julee; or from ope, Arabian.) The inspissated juice of the poppy. See

somniferu

OPOBA'LSAMUM. (From οπος, juice, and βαλσα-

pov, balsam: New Imprise gileadensis.

OPOCA LPASON. (From σπος, juice, and καλπασον, a tree of that name.) Opocarpason. A kind of bdelium which resembles myrth, but is poisonous.

OPODELDOC. A term of no meaning, frequently mentioned by Paracelsus. Formerly it signified a plaster for all external injuries, but now is confined to a camphorated soap liniment.

OPODEOCE LE. A rupture through the foramen

OPO PANAX. (Opponax, acis. f.; from oπos, juice, and παιαξ, the panacea.) See Pastinaca opo-

panar. Ορο'ριλ. (From οπτομαι, to see.) The bones of the

OPO'RICE. (From οπωρα, autumnal fruits.) A con-

orve made of ripe fruits.

OPPILA'TIO. (From (From oppile, to shut up.) lation is a close kind of obstruction; for, according Rhodius, it signities, not only to shut out, but also to fill. Medicines

OPPLATIVA. (From oppile, to shut up.) Medic or substances which shut up the pores of the skin. OPPO'NENS. Opposing. A name given to some

muscles from their office. OPPONENS POLLICIS. See Flexor ossis metacarpi

OPPOSITIFOLIUS. Applied to a flower-stalk, when opposite to a leaf; the Geranium molle, and Sium angustifolium, afford examples of the Peduncu-

s oppositefolius.
OPPOSITUS. Opposite to each other; as the leaves

of Sarifraga oppositifolia, and Ballote nigra.

OPPRE SSION. Oppressio. The catalepsy, or any

OPTIC. (Options; from oπ/ομαι, to see.) Relating

OPTIC NERVE. Nervus apticus. The second pair of nerves of the brain. They arise from the thalami nervorum opticorum, perforate the bulb of the eye, and in it form the retina.

OPUNTIA. (Ab Opunté, from the city Opus, near which it flourished.) See Cactus.
ORACHE. See Atriplez hortensis, and Cheno-

ORANGE. See Citrus ourantium.

Orange, Serille. See Citrus aurantium.

Orange, Secure. See Orans arrantam.
Orange, shaddock. See Shaddock.
Orbicula Re Os. Os pisiforme. The name of a bone of the carpus. Also a very small round bone, not larger than a pin-head, that belongs to the internal

ORBICULA'RIS. (From orbiculus, a little ring so called from its shape.) This name is given to some muscles which surround the part like a ring.

ORBICULARIS ORIS. Sphincter labiorum, of Douglas:

semi orbicularie, of Winslow; constrictor oris of Cowper; and tabial, of Dumas. A muscle of the Cowper; and tabial, of Dumas. A muscle of the mouth, formed in a great measure by those of the lips; the fibres of the superior descending, those of the inferior ascending and decu-sating each other about the corner of the mouth, they run along the lip to join those of the opposite side, so that the fleshy fibres appear to surround the mouth like a sphincter. Its use is to shut the mouth, by contracting and drawing both lips together, and to counteract all the muscles that assist in opening it.

ORBICULARIS PALPEBRARUM. A muscle common to both the cyclids. Orbicularis pulpebrarum citiaris, of authors; and maxillo palpebral, of Dunas. It arises by a number of fleshy fibres from the outer edge of the orbitar process of the superior maxillary bone, and from a tendon near the inner angle of the eye; these fibres run a little downwards and outwards, over the upper part of the cheek, below the orbit, covering the under eyelid, and surround the external angle, being closely connected only to the skin and fat; they then run over the superciliary ridge of the os frontis, towards the inner canthus, where they mix with the fibres of the occipito-frontalis and corrugator supercili: then covering the upper eyelid, they descend to the inner angle opposite to their inferior origin, and firmly adhere to the internal angular process of the os frontis, and to the short round tendon which serves to fix the palpebræ and muscular fibres arising from it. serted into the nasal process of the superior maxillary serted into the hasal process of the superior maxiliary bone, by a short round teudon, covering the anterior and upper part of the lachrymal sac, which tendon can be easily felt at the inner canthus of the eye. The use of this muscle is to shut the eye, by drawing both lids together, the fibres contracting from the outer angle towards the inner, press the eyeball, squeeze the lachrymal gland, and convey the tears towards the puncta lachrymalia

ORBICULARIS PALPEBRARUM CILIARIS. See Orbicu-

laris palpebrarum.
ORBICULATUS. Orbiculate. Applied to a leaf that is circular or orbicular, the length and breadth being equal, and the circumference an even circular line. Precise examples of this are scarcely to be found. Some species of pepper approach it, and the leaf of the Hedysarum styracifolium is perfectly orbicular, ex-cept a notic at the base. ORBIT. Orbitum. The two cavities under the

orehead, in which the eyes are situated, are termed orbits. The angles of the orbits are called *canthi*. Each orbit is composed of seven bones, viz. the frontal,

maxillary, jugal, lachrymal, ethinoid, palatine, and sphenoid. The use of this bony socket is to maintain and defend the organ of sight, and its adjacent parts.

Organa. Galen says it is the scrotum.

ORCHIDEE. (From orchis, a plant so called.) The name of an order in Linnaus's Fragments of a Natural Method, consisting of those which have fleshy state and carbidgel ground.

roots and orchideal corolls.

ORCHIDEUS. Orchideal: resembling the orchis.

ORCHIS. (Ορχις, a testicle; from ορεγομαι, to de-

ORCHIS. (Opxis, a testicle; from oppyopia, to desire.) 1. A testicle.

2. The name of a genus of plants in the Linnæan system. Class, Gymandria; Order, Diondria.
Orents ripotha. The systematic name of the butterfly orchis, the root of which is used indifferently with that of the male orchis. See Orchis mascula.
Orents Mascula. The systematic name of the male orchis. Dog's stones. Male orchis. Sutprion. Orchis—bulbis undersies, metavic latin quadridob cremitato, cornu obtuso petalis dorsatibus reflexus of Linnæus. The root has a place in the Materia Medica of the Edinburgh pharmacopeia, on account of the glutinous slimy juice which it contains. The root of the orchis bifula is also collected. Satyrion root has the orchis bifolia is also collected. Satyrion root has a sweetish taste, a faint and somewhat unpleasant Its mucilaginous or gelatinous quality has recommended it as a demulcent. Salep, which is imported here from the East, is a preparation of an analogous root which is considered as an article of diet, is accounted extremely nutritious, as containing a great quantity of farinaceous matter in a small bulk. The supposed approdisiae qualities of this root, which have been noticed ever since the days of Dioscorides, seems, says Dr. Woodville, to be founded on the fanciful doctrine of signatures; thus, orches, i.e. ooxis, testiculus habet radices, instar testiculorum.

ORCHIS MORIO. The systematic name of the orchis, from the root of which the salep is made. Salep is a farinaceous powder imported from Turkey It may be obtained from several other species of th It may be obtained from several other species of the same genus of plants. It is an insipid substance, of which a small quantity, by proper management, con-verts a large portion of water into a jelly, the mutritive powers of which have been greatly overrated. Salep forms a considerable part of the diet of the inhabitants of Turkey, Persia, and Syria. The method of pre-paring salep is as follows:—The new root is to be washed in water, and the fine brown skin which covers it is to be seen ated by reason of a small brush. covers it is to be separated by means of a small brush, covers it is to be expanded by means of a small color, or by dipping the root in warm water, and rubbing it with a coarse linen cloth. The roots thus cleaned are to be spread on a tin plate, and placed in an oven, heated to the usual degree, where they are to remain six or ten minutes. In this time they will have lost six or ten minutes. In this time they will have loss, their milky whiteness, and acquired a transparency like horn, without any diminution of bulk. Being arrived at this state, they are to be removed in order to dry and harden in the air, which will require several to dry and narden in the air, which will require several days to effect; or they may be dried in a few hours, by using a very gentle heat. Salep, thus prepared, contains a great quantity of vegetable aliment; as a wholesome nourishment it is much superior to rice; and has the singular property of concealing the taste of salt water. Hence, to prevent the dreadful calamity of sait water. Hence, to prevent the dreamin causing of famine at sea, it has been proposed that the powder of it should constitute part of the provisions of every ship's commany. With regard to its medicinal properties, it may be observed, that its restorative, mucilaginous, and demulcent qualities, render it of considerable use in various diseases, when employed as a liment, particularly in sea-scurvy, diarrhea, dysentery, symposium of the properties of the observed of the province of the p omatic fever, arising from the absorption of pus, and

tomate rever, arising from the absorption of pas, and the stone or gravel.

ORCHITES. (From oρχες, a testicle.) Hernia hu moralis. Swelled testicle. A very common symptom attending a genorrhera is a swelling of the testicle, which is only sympathetic, and not venered, because the same symptoms follow every kind of irritation on the urethra, whether produced by strictures, injections, or bougies. Such symptoms are not similar to the actions arising from the application of venereal matter, for suppuration seldom occurs, and, when it does, the matter is not venereal. The swelling and inflammation appear suddenly, and as suddenly disappear, or go from one testicle to the other. The epididymis remains swelled, however, even for a considerable time

afterward.

The first appearance of swelling is generafly a soft The first appearance of swening is generally a soft pulpy fulness of the body of the testicle, which is ten-der to the touch; this increases to a hard swelling ac-companied with considerable pain. The epididymis, towards the lower end of the testicle, is generally the hardest part. The hardness and swelling often pervade the whole of the epididymis. The hardness and swelling, however, he whole of the epididymis. The spermatic cord, and especially the vas deferens, are often thickened, and sore to the touch. The spermatic veins sometimes become varicose. A pain in the loins, veins sometimes become varieuse. A pateur de sand and sense of weakness there, and in the pelvis, aro other casual symptoms. Colieky pains; uneasmess in the stomach and bowels; flatulency; sickness, and the stomach and bowels; flatulency; sickness, and even vomiting; are not unfrequent. The whole testicle is swelled, and not merely the epididymis, as has been asserted.

The inflammation of the part most probably arises from its sympathizing with the urethra. The swelling of the testicle coming on, either removes the pain in making water, and suspends the discharge, which does not return till such swelling begins to subside, or else not return til such swelling begins to subside, of else the irritation in the urethra, first ceasing, produces a swelling of the testicle, which continues till the pain and discharge return; thus rendering it doubtful which is the cause and which the effect. Occasionally, however, the discharge has become more violent, though the testicle has swelled; and such swelling has even been known to occur after the discharge has even been known to occur after the discharge has ceased; yet the latter has returned with violence, and remained as long as the hernia humoralis.

Hernia humoralis, with stoppage of the discharge, is apt to be attended with strangury. A very singular thing is, that the inflammation more frequently comes on when the irritation in the urethra is going off, than when at its height.

The enlargement of the testicle, from cancer and

ecrofula, are generally slow in their progress. that of t a hernla humoralis very quick

O RCHOS. (From oox os, a plantation or orchard so called from the regularity with which the hairs are in The extremities of the cyclids, where the eve-

ORCHO TOMY. (Orchotomia; from ορχις, a testicle, and τεμνω, to cut.) Castration. The operation

of extracting a testicle.

ORDER. A term applied by naturalists and nosologists to designate a division that embraces a number of genera which have some circumstances common to them all. See Genus, Plants, sexual system of, and Nosology.

Orders, natural, of plants. See Natural.

ORE. The mineral substance from which metals are extracted.

OREOSELI'NUM. (From opos, a mountain, and σελινον, parsley: so named because it grows wild upon mountains.) Mountain parsley. See Athamanta

ORE'STION. (From opos, a mountain.) In Dioscorides it is the Helencum, or a kind of elecampane, growing upon mountains.

OREXIA. (From ορεγομαι, to desire.) Orexis. A

OREALA. (ct ton operpart vacation) desire or appetite.

OREALS. See Orexia.

ORGAN. Op avov. Organum. A part of the body capable of the performance of some perfect act or operation. They are distinguished by physiologists by their functions, as organs of sense, organs of mo tion, organs of sensation, digestive organs, &c.

ORGANIC. Of or belonging to an organ. present day this term is in general use to distinguish a disease of structure from a functional disease; thus, when the liver is converted into a hard tuberculated or other structure, it is called an organic disease, but when it merely furnishes a bad bile, the disease is said to be functional

ORGANIC RELICS. These fossil relies are of two kinds, Petrifactions and Conservatives.

Petrejactions, or Substitutions, are those relies, which are entirely made up of mineral substances, which have gradually run into the places occupied by organized bodies as those bodies decayed, and assumed their forms.

Conservatives, or Preservatives, are those relies, or parts thereof, which still consist of the very same substances, which originally composed the living organized

An organic relic may partake of both kinds. The shell of an oyster, being chiefly carbonate of lime, may still remain, which would be a conservative. While the enclosed animal matter will be entirely decayed, and mineral matter occupy its place and imitate its form, which would be a pitrifaction.

form, which would be a peterfaction.

Organic relies are named by annexing the termination lithus to stone, to the scientific name of the living
organized being. As ichthyolithus is composed of
types (a fish, and high, to stone). That is, a fish hecoming stone. In English, lethus is changed to lete, as ichthyolite. Sometimes the letter l is left out, as lacerta (lizard) would make lacertit, (a petrified lizard). This abridged method has now come into general use."

-Eat. Geol. A.] ORGASM. See Orgasmus.

ORGASMUS. (From opyaw, "appeto impatienter; proprie de anemantibus dicitur, que turgent libidine."

Salacity.

PHCA. The name of an order of the class ORGASTICA. Genetica, in Good's Nosology. Diseases affecting the Its genera are, chlorosis, praotia, lagnesis, orgasin.

occusio, aphorea, edoptosis.
ORIBASIUS, an eminent physician of the 4th century, was born at Pergamus, or, according to others, at He is men Saides, where he resided for some time. tioned as one of the most learned and accomplished men of his age, and the most skilful in his profession and he not only obtained great public reputation, but also the friendship of the Emperor Julian, who ap-pointed him quæstor of Constantinople. But after the death of that prince he suffered a severe reverse; he was stripped of his property, and sent into banishment among the Barbarians. He sustained his misfortunes, however, with great fortitude: and the dignity of his character, with his professional skill and kindness, gained him the veneration of these rude people, among whom he was adored as a tutelary god. At length he

was recalled to the imperial court, and regained the public favour. He was chiefly a compiler, but some valuable practical remarks first occur in his writings He made, at the request of Julian, extensive "Collect He made, at the request of Julian, excessive "Conec-tions" from Galen, and other preceding authors, in about seventy books, of which only seventeen now remain; and afterward made a "Synopsis of this vast work for the use of his son, in nine books: there are also extant four books, in medicines and diseases, en-titled "Euporistorum Libri." He praises highly local also extant four books, in medicines and diseases, en-titled "Euporistorium Libri." He praises highly local evacuations of blood, especially by scarifications, which had been little noticed before: and he affirms, which had been little noticed before; and ne amrms, that he was himself cured of the plague by it, having lost in this way two pounds of blood from the thighs on the second day of the disease. He first described a singular species of insanity, under the name of lycanthropia, in which the patient wanders about by night

incopial, in wince the panent wanders about by right among the fombs, as if changed into a wolf: though such a disease is noticed in the New Testament.

ORICHALCUM. The brass of the ancients.

ORICHA. (From Oricus, a city of Epirus, near which it grows.) A species of fir or turpentine-tree,

ORIENTALIA FOLIA. The leaves of senna were so called

ORIGANUM. (From opos, a mountain, and yarow, to rejoice: so called because it grows upon the side of mountains.)

1. The name of a genus of plants in the Linnwan system. Class, Dulynamia; Order, Gymnospermia. 2. The pharmacoperial name of the wild marjoram. See Griganum vulgare.

ORIGANUM CRETICUM. See Origanum dictamnus The systematic name of ORIGANUM DICTAMNUS. the dittany of Crete. Dictamnus creticus; Origanum creticum; Onitis. The leaves of this plant, Ori ganum - folis inferioribus tomentosis, spicis nutanti

yancin—jours inferioritus (umentosis, spiets mutanti-bus of Linnaeus, are now iniely used, they have been recommended as emmenagogue and alexipharmic. Oricastes Mantioficasa. The systematic name of sweet marjorani. Marjorania. This plant, Origanian— sfoites water oblusses, spiets solviedunds compactor pubiscentibus of Linnaeus, has been long cultivated in our gardens, and is in frequent use for culmary pur-The leaves and tops have a pleasant smell a moderately warm, aromatic, bitterish taste. yield their virtues to aqueous and spirituous liquors, by infusion, and to water in distillation, affanding a considerable quantity of essential oil. The medicinal qualities of the plant are similar to those of the wild plant (see Originam rulgare); but being much more fragrant, it is thought to be more cephalic, and better adapted to those complaints known by the name of nervous; and may therefore be employed with the same intentions as lavender. It was directed in the pulses sternutaturen, by both pharmacoposias, with a view to the agreeable coloni which it communicates to the asarabacca, rather than to its errhine power, which is very inconsiderable; but it is now wholly omitted in the Pharm. Lond. In its recent state, it is said to have been successfully applied to corribous tamours of the hreast.

ORIGANUM SYRIACUM. The Syrian berb mastich. See Tenerium marum.

ORIGANUM VULGARE. The systematic name of the wild marjoram. Marjorana; Mancurana; Origanum herueleoteoum; Onites; Zazarhendi herba. Origanum spices subcolendis panieulotis conglomeratis, bractis calper longuaribus oratis of Linnaus. This plant grows wild in many parts of Britain. It has an agreeable aromatic smell, approaching to that of marjoram, and a pungent taste, much resembling thyme, to which it is likewise thought to be more allied in its medicinal qualities, and therefore deemed to be em menagogue, tonic, stomachic, &c. The dried leaves, used instead of tea, are said to be exceedingly grateful. They are employed in medicated baths and fomenta-

ORIS CONSTRUCTOR. See Orbicularis oris

ORLEANA TERRA. (Orleana, so named from the place where it grows.) See Beza orleana. ORMSkIRK. The name of a place in which Hill lived, who invented a medicine for the cure of hydrophobia, and died without making known its composi-tion. The analysis of Drs. Black and Hepburn demonetrates it to be half an ounce of powder of chalk; three drachms of Armenian bole; ten grains

of alum; one drachm of powder of elecampane root; six drops of oil of anise. This dose is to be taken every morning for six times in a glass of water, with a

small proportion of fresh milk.

ORNITHO GALUM. (From νορμς, a bird, and γαλα, milk: so called from the colour of its flowers, which are like the milk found in eggs.) The name of a genus of plants in the Linnaran system. Class, Hexandria; Order, Monogynia.

ORNITHOGALUM MARITIMUM, a kind of wild onion.

ORNITHOGLOSSUM. (From ορνις, a bird, and γλωσσα, a tongue: so called from its shape.) Bird's tongue. The seeds of the ash-tree are sometimes so

ORNITHOLOGY. (Ornithologia; from ooris, a bird, and logos, a discourse.) That part of natural history which treats of birds.

history which treats of piras.

ORNITHOPO'DIUM. (From opus, a bird, and movs, a foot: so called from the likeness of its pods to a blood of any of the likeness of its pods to a blood of any of the likeness of its pods to a blood of the likeness of its pods to a blood of the likeness of its pods to a blood of the likeness of the like a bird's claw.) Bird's foot; scorpion wort. The Or-nethropus perpusillus, and Scorpioides, of Linnæus, are so called.

O'RNUS. (From orn, Heb.) The ash-tree which

affords manna.

OROBA'NCHE. (From οροδος, the wild pea, and αγχω, to sufficate: so called because it twines round the orobus and destroys it.) The name of a genus of plants in the Limican system. Class, Gynandria and Didynamin; Order, Angiospermia.

OROBRY'CHIS. (From οροδος, the wood-pea, and βραχω, to cat.) The same as orobance.

OROBUS. (From ερατ'ρω, to eat.) I. The name of a genus of plants in the Limican system. Class, Diadelphia; Order, Decandria.

2. The pharmacopacial name of the ervum. See Errum.

Ernum

OROBUS TUBEROSUS. The heath-pea. The root of this plant is said to be nutritious. The Scotch islanders hold them in great esteem, and chew them like

OROSELI'NUM. See Athamanta.
ORPIMENT. Orpimentum. A sulphuret of arseic. Native orpiment is found in yellow, brilliant, and, as it were, talky masses, often mixed with realgar, and sometimes of a greenish colour. See Arsenic

ORPINE. See Sedum telephium.
ORRHOPY GIUM. (From 0005, the extremity, and 007), the buttocks.) The extremity of the spine, πυγη, the butfocks.) The which is terminated by the os coccygis.

O'rrmos. (From  $\rho \varepsilon \omega$ , to flow.) 1. Serum, whey 2. The raphe of the scrotum.

The extremity of the sacrum.

See Iris. ORRIS.

ORRIS. See Iris.
Orris, Florentine. See Iris florentina.
Orseille. A mineral; so named because it always
occurs in straight layers, generally in felspar. It resembles gadolinite. It is found in the mine of Fimbo in Sweden

ORTHOCO'LON. (From oρθος, straight, and κωλον, a limb.) It is a species of stiff joint, when it cannot be bended, but remains straight.

ORTHOPNOE'A. (Prom oppos, erect, and mron, breathing.) A very quick and laborious breathing, during which the person is obliged to be in an erect ORTHOPNŒ'A. posture.

ORVA'LE. (Orvale, French.) A species of clary or horminum.

ORVIETA'NUM, a medicine that resists poisons; from a mountebank of Orvieta, in Italy, who first made him-self famous by taking such things upon the stage, after doses of pretended poisons; though some say its inventor was one Orvietanus, and that it is named after him.

ORY'ZA. (From orez, Arabian.) 1. The name of a genus of plants in the Linnaran system. andria. Order, Digynia. The rice plant. Class, Tri

See Oryza 2. The pharmacopæial name for rice.

ORYZA SATIVA. The systematic name of the plant which affords the rice, which is the principal food of the inhabitants in all parts of the East, where it is boiled, and caten either alone or with their meat. Large quantities of it are annually sent into Europe, and it meets with a general esteem for family purposes. The people of Java have a method of making puddings of rice,

which seems to be unknown here; but it is not difficult to put in practice if it should merit attention. take a control earthen pot, which is open at the large end, and perforated all over. This they fill about half full with rice, and putting it into a large earthen pot of the same shape, filled with boiling water, the rice in the first pot soon swells, and stops the perforations, so the first pot soon sweds, and stops the perforations, so as to keep out the water. By this method the rice is brought to a firm consistence, and forms a pudding, which is generally eaten with butter, oil, sugar, vinegar, and spices. The Indians eat stewed rice with good success against the bloody flux; and in most inflammatory disorders they cure themselves with only a decoction of it. The spirituous liquor called arrack is cocho of it. The spirituous houor called arrack is made from this grain. Rice grows naturally in moist places, and will not come to perfection, when cultivated, unless the ground be sometimes overflowed or plentifully watered. The grain is of a gray colour when first reaped; but the growers have a method of whitening it before it is sent to market. The manner of performing this, and beating it out in Egypt, is thus described by Hasselquist: They have hollow iron cy described by Hassalquist. They have hollow non cy lundrical pestles, about an inch diameter, Inted by a wheel worked with oxen. A person sits between the pestles, and, as they rise, pushes forward the rice, while another winnows and supplies fresh parcels. Thus they continue working until it is entirely free from chaff. Having in this manner cleaned it, they add one-thirtieth part of salt, and rub them both together, by which the grain acquires a whiteness; then it is passed through a sieve, to separate the salt again from it. In the island of Ceylon they have a much more expeditious method of getting out the rice; for, in the field where it is reaped, they dig a round hole, with a level bottom, about a foot deep, and eight yards dame to and fill it with bundles of come. Havinghad it ter, and fill it with bundles of corn. Having laid it properly, the women drive about half a dozen oxen continually round the pit; and thus they will tread out forty or fifty bushels a day. This is a very ancient method of treading out corn, and is still practised in

Africa upon other soits of grain.

OS. 1. (OS, oxses. n.) A bone. See Bone.

2. (OS, oxis. n.) The mouth.

OS EXTERNEM The cutrance into the vagina is so named in opposition to the mouth of the womb, which is called the os internum.

Os internum. The orifice or mouth of the uterus.

OS INTERNUM. The Office of heavier.
OS LEGNIN. The Antierchiana linaria.
OS LEGNIN. The spongy bones are two number, and are called ossa spongiosa inferiora. ethmoid bone has two turbinated portions, which are sometimes called the superior sponey bones. These bones, which, from their shape, are sometimes called ossa turbinata, have, by some anatomists, been described as belonging to the ethmoid bone; and by others, as portions of the ossa palati. In young sto-jects, however, they are evidently distinct bones. They consist of a spongy lamella in each nostril. The convex surface of this lamina is turned towards the septum narium, and its concave part towards the maxi-lary bone, covering the opening of the lachywind duct into the nose. From their upper edge arise two pro-cesses: the posterior of these, which is the boaders, hangs as it were upon the edge of the antrum highmorasum; the anterior one joins the os unguis, and forms a part of the lachrymal duct. These bomes are complete in the fietus. They are lined with the pitutary membrane; and, besides their connexion with the ethmoid bone, are joined to the ossa maxillaria superiora, ossa palati, and ossa unguis. Besides these ossa spongiosa inferiora there are sometimes two others, situated lower down, one in each nostrit. These are very properly considered as a production of the sides of the maxillary sinus turned downwards. In many subjects, likewise, we find other smaller bones standing out into the nostrils, which, from their shape, might also deserve the name of turbinata, but they are un-

also deserve the name of turbinata, but they are un-certain in their size, situation, and number.

Os TINGE. See Tinge. os.
[OSBORN, John C. M.D. the eldest son of Dr. John Osborn, was born at Middletown, Connecticut, Sep-tember, 1766. He received his classical education at Middletown, under the Rev. Emoch Huntungton, an eminent scholar; and his medical education exclu-sively under his father. He was not distinguished by any academic honour till he became eminent in his profession in North Carolina to which state, by reprofession in North Carolina, to which state he re

OST OSS

moved in 1787. Here he was well known as a success ful practitioner, and was repeatedly placed at the head of the Medical Society of the district. He came to the of the Medical Society of the district. He came to the city of New York in 1807, and was shortly after intro-duced to a large scene of practice. He was created Professor of the Institutes of Medicine, in the Medi cal Faculty of Columbia College, and upon the union of that Faculty with the College of Physicians and Surgeons, he was appointed Professor of Obstetrics and the Diseases of Women and Children. He died of a pulmonary disorder in the Island of St. Croix, upon the day of his landing, March 5th, 1819.

With his professional erudition, Dr. Osborn united great literary acquirements, and his knowledge of books was varied and extensive. These acquisitions he often displayed in his course of public instruction. His view of the Materia Medica as a science was equalled by few, and his knowledge of the actual medical qualities of the native productions of our soil, was a subject which he delighted to investigate, and in his practice, and by his instructions, he earnestly enjoined an acquaintance with these important remedial agents.

Dr. Osborn was a man of much more science and eminence in his profession than either his father or grandfather, and possessed a very fine taste for poetry, belies lettres, and painting. While he was quite a young man, Mr. Barlow submitted to him and his friend, the late Richard Alsop, Esq. the manuscript of the Vision of Columbus, for their correction and revision, previous to its publication. His taste in painting was highly cultivated, and he might have attained to great eminence as an artist."- Thach. Med. Biog. A.]

OSCE'DO. A yawning.

OSCHEOLE LE. (From σσχεον, the scrotum, and κηλη, a tumour.) 1. Any tumour of the scrotum. A scrotal hernia.

A serotal herma.
 O'SCHEON. Οσχεον. The scrotum. Galen gives the name to the os uteri.
 OSCHEO'PHYMA. (From σσχεον, the scrotum, and φυρα, a tumour.) A swelling of the scrotum.
 OSCHLATION. Vibration. See Irritability.

O'SCITANS. (From oscito, to gape.) Yawning.

Gaping.
OSCITA'TIO. (From oscito, to gape.) Yawning Gaping

OSCULATO'RIUS. (From osculo, to kiss: so called because the action of kissing is performed by it.) The sphincter muscle of the lips

(Diminutive of os, a mouth ) A lit O'SCULUM.

OSMAZOME. If cold water, which has been di-gested for a few hours on slices of raw muscular fibre, with occasional pressure, he evaporated, filtered, and then treated with pure alkohol, a peculiar animal prin-ciple will be dissolved, to the exclusion of the salts. By dissipating the alkohol with a gentle heat, the osmazonie is obtained. It has a brownish yellow colour, and the taste and smell of soup. Its aqueous solution affords precipitates, with infusion of nut-galls, nitrate of mercury, and nitrate and acetate of lead OSMIUM. A new metal lately discover

A new metal lately discovered by Tennant among platina, and so called by him from the pun

gent and peculiar smell of its oxide.

OSMUND. See Osmanda regalis.
OSMUNDA. (From Osmand, who first used it.)
The name of a genus of plants. Class, Cryptogamia; Order, Filices.

OSMUNDA REGALIS. Filiz florida. The systematic name of the osmund-royal. Its root possess name of the osmuntareous gent and emmenazogue virtues: O SPHYS: Ordoto. The tons. O SPHYS: Ordoto. See Os spongiosum.

OSSA SPONGEOSA. See Os spe OSSI CULUM. A little bone.

OSSICULA AUDITUS. The small bones of the interosteria a turres. The shad bones of the inter-nal ear are four in number, viz. the malieus, incus, stapes, and os orbiculare; and are situated in the cavity of the tympanum. See Mallens, Incus, Stapes, and

OSSIFICATION. (Ossificatio; from os, a bone, and facio, to make.) See Osteogeny.
OSSIFRAGA. (From os, a bone, and frongo, to break.) A petrified root, called the bone-binder, from

otean.) A permiter rose candet the some undergroom its supposed writtees in entiring fractured bones.

OSSIPRAGUS. See Ostacalla.
OSSI VORUS. (From 6s, a bone, and voro, to devour.) Applied to a species of tumour or ulcer which destroys the bone

(From οστεον, a bone, and αγρα, a lay Λ forceps to take out bones with. (From οςτον, a bone.) The bone-binder. ing hold of ) See Ostrocolla

OSTEOCO LLA. (From σξεον, a bone, and κολλαω, to glue) Ossafraga: Holosteus; Osteites; Amosteus; Osteolithos; Stelochites. Glue-bone, stone, or bone binder. A particular carbonate of lime found in some parts of Germany, particularly in the Marché of Brandenburg, and in other countries. It is met with in loose sandy grounds, spreading from near the sur-face to a considerable depth, into a number of ramifi-cations like the rotes of a tree. It is of a whitish co-lour, soft while under the earth, friable when dry, rough on the surface, for the most part either hollow within, or filled with a solid wood, or with a powdery white matter. It was formerly celebrated for pro-moting the coalition of fractured bones, and the forma-tion of callus, which virtues are not attributed to it in the present day

OSTEO COPUS. (From occov, a bone, and komos, uneasiness.) A very violent fixed pain in any part of the bone.

OSTEOGE'NICA. (From ogeov, a bone, and γενναω, to beget.) Medicines which promote the generation of

OSTEOGENY. (Osteogenia; from ος εον, a bone, and γενεια, generation.) The growth of bones. Bones are either formed between membranes, or in the sub stance of cartilage; and the bony deposition is effected by a determined action of arteries. The secretion of by a determined action of arteries. The secretion of bone takes place in cartilage in the long bones, as those of the arm, leg, &c.; and between two layers of membrane, as in the bones of the skull, where true cartilage is never seen. Often the bony matter is formed in distinct bags, and there it grows into form, as in the teeth; for each tooth is formed in its little bag, which, by in jection, can be filled and covered with vessels. artery of the body can assume this action, and deposite bone, which is formed also where it should not be, in the tendons and in the joints, in the great arteries and in the valves, in the flesh of the heart itself, or even in the soft and pulpy substance of the brain.

Most of the bones in the feetus are merely cartilage before the time of birth. This cartilage is never hardened into bone, but from the first it is an organized mass. It has its vessels, which are at first transparent, but which soon dilate; and whenever the red colour of the blood begins to appear in them, ossification very quickly succeeds, the arteries being so far enlarged as to carry the coarser parts of the blood. The first mark of ossification is an artery which is seen running into the centre of the jelly which is formed. Other arteries soon appear, and a net work of vessels is formed, and then a centre of ossification begins, stretching its rays according to the length of the bone, and then the cartilage begins to grow opaque, yellow, brittle: it will no longer bend, and a bony centre may easily be discover-Other points of ossification are successively form-The ossied, preceded by the appearance of arteries. fication follows the vessels, and buries and hides those vessels by which it is formed. The vessels advance towards the end of the bone, the whole body of the bone becomes opaque, and there is left a small vascu-lar circle only at either end. The heads are separated from the body of the bone by a thin cartilage, and the vessels of the centre, extending still towards the extremities of the bone, perforate the cartilage, pass into the head of the bone, and then its ossification also begins, head of the bone, and then its ossilication also begins, and a small nucleus of ossification is formed in its centre. Thus the heads and the body are at first distinct hones, formed apart, joined by a cartilage, and not united till the age of fifteen or twenty years. Then the deposition of bone begins; and while the bone is laid by the arteries, the cartilage is conveyed away by the absorbing vessels; and while they convey away the superfluous cartriage, they model the bone into its due form, shape out its cavities, cancelli and holes, remove the thinner parts of the remaining cartilage, and harden it into due consistence. The earth which constitutes the hardness of bone, and all its useful properties, is inorganized, and lies in the interstices of bone, where it is made up of gelatinous matter to give it consistence and strength, furnished with absorbents to keep it in health, and carry off its wasted parts; and per-vaded by blood vessels to supply it with new matter. During all the process of ossification, the absorbents

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proportion their action to the stimulus which is applied | getables receive this name from being of this shape; to them: they carry away the serous fluid, when jelly is to take its place; they remove the jelly as the bone is laid; they continue removing the bony particles also, which (as in a circle) the arteries continually renew. This renovation and change of parts goes on even in the hardest bones, so that after a bone is perfectly formed, its older particles are continually being remov ed, and new ones are deposited in their place. bony particles are so deposited in the flat bones of the skull as to present a radiated structure, and the vacan-cies between the fibres which occasion this appearance, are found by injection to be chiefly passages for blood-vessels. As the fœtus increases in size, the osseous fibres increase in number, till a lamina is produced; and as the bone continues to grow, more laminæ are added, till the more solid part of a bone is formed.

The ossincation which begins in cartilage is considerably later than that which has its origin between membranes. The generality of bones are incomplete until the age of puperty, or between the filteenth and the age of puberty, or between the fifteenth and twentieth years, and in some few instances not until a later period. The small bones of the ear, however, are completely formed at birth.

OSTEOGRAPHY. (Osteographia; from ος εον, a one, and γραφω, to describe.) The description of the bone, and  $\gamma \rho \alpha \phi \omega$ , to describe.) bones. See Bone.

OSTEOLI'THOS. (From ος εον, a bone, and λιθος, a

stone.) See Osteocolla.
OSTEOLOGY. (Osteologia; from ogeov, a bone, and havoc. a discourse.) The doctrine of the bones.

OSTEOPŒDION. (From ogeov, a bone, and was, waides, an infant.) Lithopædion. A term given to the mass of an extra-uterine fætus, which had become

osseous, or of an almost stony consistence. ossedus, of oi an almost suny collastence.

OSTHEXIA. (From ogading, ossedus or bopy, and etg, habit.) The name in Good's Nosology of a genus of diseases. Class, Eccritica; Order, Mesotica. Osthexy or ossific diathesis. It has two species, Osthexia

infarciens; implexa.

OBTIA'RIUS. (Fro (From ostium, a door.) The pylorus

has been so called.

OSTI'OLA. (Diminutive of ostium, a door.) The valves or gates of the heart.
OSTIUM. A door or opening. Applied to small

foramina or openings.

foramina or openings.

O'STRA: (From osgakov, a shell.) The oyster.

The shell of this fish is occasionally used medicinally; its virtues are similar to those of the carbonate of lime. See Creta.

OSTRUTHIUM. See Imperatoria.

OSY'RIS. (Orops of Dioscorides, which he describes as a small shrub with numerous, dark, tough

branches; and Professor Martyn conjectures its derivation from ogos, a branch. Some take the antirrhi-num linaria for the true Osyris.) The name of a genus of plants in the Linnæan system. Class, Dia-Class, Die cia; Order, Triandria.

OSYRIS ALBA. Cassia poetica lobelli; Cassia lati OSYRIS ALBA. Cassia proctica lobelli; Cassia lati-norum; Cassia lignae monspeliensium; Cassia mons-peliensium. Poet's cassia or gardrobe; Poet's rose-mary. The whole shrub is astringent. It grows in the southern parts of Europe. OTΑ LGIA. (From oυς, the ear, and αλγος, pain,)

The earache.

OTENCHY'TES. (From ωτος, the genitive of ωτς, an ear, and εγχευω, to pour in.) A syringe for the ears.

OTHO'NNA. (From οθουη, lint: so called from the softness of its leaves.) A species of celaudine.

(From ous, the ear.) Medicines against O'TICA. diseases of the ear

(From ovs, the ear.) An epithet of the because it is commonly made use of in OTI'TES. little finger,

ecratching the ear.

OTITIS. (From ove, the ear.) Inflammation of the internal ear. It is known by pyrexia, and an excruciating and throbbing pain in the internal ear, that is sometimes attended with deliritum.

OTOPLA'TOS. (From ovs, the ear.) A stinking ulcer behind the ear.

OTOPYO'SIS. (From ove, the ear, and πνον, pus.)
A purulent discharge from the ear.
OTORRHÆ'A. (From ove, the ear, and ρεω, to (From ous, the ear, and psw, to

flow.) A discharge from the ear.

Ova'le foramen. See Foramen ovale:

OVALIS. Oval. Some parts of animals and ve-

as foranien ovale, centrum ovale, folium ovale, recep taculum ovale.

Ovarial Belonging to the ovarium, OVA RIUM. (Diminutive of ovum, an egg.) The ovaria are two flat oval bodies, about one inch in length, and rather more than half in breadth and thickness, suspended in the broad ligaments, about the distance of one inch from the uterus behind, and a little below the Fallopian tubes. To the ovaria, according to the idea of their structure entertained by different anatomists, various uses have been assigned, or the purpose they answer has been differently explained. Some have supposed that their texture was glandular, and that they secreted a fluid equivalent to, and similar to the male semen; but others, who have examined them with more care, assert, that they are ovaria in the literal acceptation of the term, and include a number of vesicles, or ova, to the amount of twenty-two of different sizes, joined to the internal surface of the ovaria by cellular threads or pedicles; and that they contain a fluid which has the appearance of thin lymph. These vesicles are, in fact, to be seen in the healthy ovaría of every young woman. They differ very much in their number in different ovaria, but are very seldom so numerous as has just been stated. have agreed that the ovaria prepare whatever the fe-male supplies towards the formation of the fœtus; and this is proved by the operation of spaying, which consists in the extirpation of the ovaria, after which the animal not only loses the power of conceiving, but de-sire is for ever extinguished. The outer coat of the ovaria, together with that of the uterus, is given by the peritoneum; and whenever an ovum is passed into the Fallopian tube, a fissure is observed at the part through which it is supposed to have been transferred. These fissures healing, leave small longitudinal cica-trices on the surface, which are said to enable us to determine, whenever the ovarium is examined, the number of times a woman has conceived. The corpora lutea are oblong glandular bodies of a yellowish colour, found in the ovaria of all animals when pregnant, and, according to some, when they are salacious They are said to be calyces, from which the impregnated ovum has dropped; and their number is always in proportion to the number of conceptions found in the uterus. They are largest and most conspicuous in the uterus. They are targets and most conspicuous in the early state of pregnancy, and remain for some time after delivery, when they gradually fade and wither till they disappear. The corpora lutea are very vascu-lar, except at their centre, which is whitish; and in the middle of the white part is a small cavity, from which the impregnated ovum is thought to have imme-diately proceeded. The ovaria are the seat of a particular kind of dropsy, which most commonly happens to women at the time of the final cessation of the menses, though not unfrequently at a more early period of life. It is of the encysted kind, the fluid being sometimes limpid and thin, and at others discoloured and gelatinous. In some cases it has been found conand grathous. In some cases it has been found con-tained in one cyst, often in several; and in others the whole tumeraction has been composed of hydatids not larger than grapes. The ovaria are also subject, especially a short time after delivery, to inflammation, ter-minating in suppuration, and to scirrhous and cancerous diseases, with considerable enlargement. In the cerous assesses, with considerable enlargement. In the former state, they generally adhere to some adjoining part, as the uterus, rectum, bladder, or external integuments, and the matter is discharged from the vagina by stool, by urine, or by an external abscess of the integuments of the abdomen.

OVATUS. Ovate. Leaves, petals, seeds, &c. are so called when of the shape of an egg cut lengthwise,

so called when of the shape of an egg cut lengthwise, the base being rounded, and broader than the extremity, a very common form of leaves; as in Vinca major, and Urtica pilulifera, and the petals of the Allium flavum, and Narcissus peuedo-narcissus; the receptacie of the Omphalea, and seeds of the Quercus.

OVIDUCT. (Oviductus; from orum, an egg, and ductus, a canal.) The duct or canal through which the ovum, or egg, passes. In the human species, the Fallopian tube is so called, which runs from the overy tester between of the womb.

to the bottom of the womb. OVIPAROUS. (From orum, an egg, and pario, to bring forth.) Animals which exclude their young in the egg, which are afterward hatched.

Ovo RUM TESTA. Egg-shells. A testaceous absorbent.

O'VUM. A little egg. See Ovum.
O'VUM. 1. An egg. See Egg.
2. The vesicles in the ovarium of females are called

When fecundation takes place in the ova, or ovula. one or more of these, they pass, after a short time, along the Fallopian tube into the uterus.

"Development of the orum in the uterus.—The ovum, in the first moments of its abode in the uterus, is free and unattached; its volume is nearly that which it had in quitting the ovarium; but, in the course of the second month, its dimensions increase, it becomes covered with filaments of about a line in length, which ramify in the manner of blood-vessels, and are implanted into the decidue. In the third month, they are seen only on one side of the ownn, the others have nearly disappeared; but those which remain have acquired a greater-extent, thickness, and consistence, and are more deeply implanted into the deciduous membrane; taken together they form the placenta. The ownn, in the rest of its surface, presents only a detail the surface. soft flocculent layer called decidua reflexa. The ovum continues to increase until the end of pregnancy, in which its volume is nearly equal to that of the uterus; but its structure suffers important changes which we will examine.

At first its two membranes have yielded to its enlargement, while becoming thicker or more resisting the exterior is called chorion; the other amnion. The liquid contained by the latter augments in proportion to the volume of the ovum. In the second month of pregnancy, there exists also a certain quantity of liquid between the chorion and ainnion, but it disappears

during the third month.

p to the end of the third week, the ovum presents nothing indicative of the presence of the germ; the contained liquid is transparent, and partly congulable as before. At this period there is seen, on the side where the ovum adheres to the uterus, something slightly opaque, gelatinous, all the parts of which appear homogeneous; in a short time, certain points become opaque, two distinct vesicles are formed, nearly become opaque, two distinct vesices are formed, nearly equal in volume, and united by a pedicle, one of which adheres to the amnion by a small olument. Almost at the same time a red spot is seen in the midst of this last, from which yellowish filaments are seen to take their rise: this is the heart, and the principal sanguiferous vessels. At the beginning of the second month the head is very visible, the eyes form two black points very large in proportion to the volume of the head small openings indicate the place of the ears and nos trils; the mouth, at first very large, is contracted after-ward by the developement of the lips, which happens about the sixtieth day, with that of the ears, nose, extremities, &c.

The development of all the principal organs happens successively until about the middle of the fourth month; then the state of the embruo ceases, and that the fætus begins, which is continued till the termination of pregnancy. All the parts increase with more or less rapidity during this time, and draw towards the form which they must present after birth. Before the sixth month, the lungs are very small, the heart large, but its four cavities are confounded, or at least difficult to distinguish; the liver is large, and occupies a great part of the abdomen; the gall-bladder is not full of bile, but of a colourless fluid not bitter: the small intestine, in its lower part, contains a yellowish matter, in small quantity, called meconium; the testicles are placed upon the sides of the superior lumbar vertebræ; the ovaria occupy the same position. At the end of the seventh month, the lungs assume a reddish that which they had not before; the cavities of the heart become distinct; the liver preserves its large dimensions, but removes a little from the umbilicus; the bile sions, but removes a little from the umbilicus; the bile chows itself in the gall-bladder; the meconium is more abundant, and descends lower in the great intestine. The ovaria tend to the pelvis, the testicles are directed to the inguinal rings. At this period the feetus is capable of life, that is, it could live and breathe if expelled from the uterus. Every thing becomes more perfect in the eighth and ninth months. We cannot here follow the interesting details of this increase of the organs; they belong to anatomy; we shall consider the physical steady of the programment of the relate to them. the physiological phenomena that relate to them.

Functions of the ovum, and of the fatus.—The ovum begins to grow as soon as it arrives in the cavity of the uterus; its surface is covered with asperities that are

quickly transformed into sangulferous vessels, there is quickly transformer into supplifications vessels. Interest then life in the ovum. But we have no idea of this mode of existence; probably the surface of the ovum absorbs the fluids with which it is in contact, and these, absorbs the made with which it is in contact, and these, after having undergone a particular elaboration by the membranes, are afterward poured into the cavity of the

What was the germ before its appearance? Did it exist, or was it formed at that instant? Does the little almost opaque mass that composes it contain the rudi ments of all the organs of the feetus and the adult, or are these created the instant they begin to show them-selves? What can be the nature of a nutrition so selves? complicated, so important, performed without vessels, nerves, or apparent circulation? How does the heart move before the appearance of the nervous system? Whence comes the yellow blood that it contains at first? &c. &c. No reply can be given to any of these questions in the present state of science.

We know very little of what happens in the embryo, whose organs are only yet rudely delineated; never theless, there is a kind of circulation recognised. The heart sends blood into the large vessels, and into the ru dimentary placenta; probably blood returns to the heart by veins, &c.—But when the new being has reached the foetal state, as most of the organs are very apparent, then it is possible to recognise some of the functions peculiar to that state.

The circulation is the best known of the functions of the fœtus; it is more complicated than that of the adult, and is performed in a manner quite different.

In the first place, it cannot be divided into venous and arterial; for the fætal blood has sensibly every where the same appearance, that is, a brownish red tint: other respects it is much the same as the blood of the adult; it coagulates, separates into clot, and serum, &c I do not know why some learned chemists have be-

lieved that it does not contain fibrin.

The placenta is the most singular and one of the most important organs of the circulation of the fætus it succeeds to those filaments which cover the ovum during the first months of pregnancy. Very small at first, it soon acquires a considerable size. It adheres. Very small at e. It adheres. by its exterior surface, to the utems, presents irregular furrows, which indicate us division into several lobes or cotyledons, the number and form of which are not determined. Its fœtal surface is covered by the chodetermined. Its inean surface is covered by the cho-rion and amnion, except at its centre, into which the unbified cord is inserted. Its parenchyma is formed of sanguiferous vessels, divided and subdivided. They belong to the divisions of the ambilitied arteries, and to the radicise of the vein of the same name. The ves-sels of one loke do not communicate with those of the existing the control of the same name. adjoining lobes; but those of the same cotyledon anastomose frequently, for nothing is more easy than to

make injections pass from one to another.
The umbilical cord extends from near cord extends from near the centre of the placenta to the umbilious of the child; its length is often near two feet; it is formed by the two umbilical arteries and the vein, connected by a very close cellular tissue, and is covered by the two membranes of the

In the first months of pregnancy, a vesicle, which receives small vessels, being a prolongation of the mesenteric artery and the mescraic vein, is found in the senteric artery and the mescrate veilt, is found in the body of the cond, between the chorion and the amnion, near the unbilicus. This vesicle is not analogous to the allantoid; it represents the membranes of the yelk of birds and reptites, and the umbilical vesicle of the mammalia. It contains a yellowish fluid which seems

The umbilical vein, arising from the placenta, and then arriving at the umbilicus, enters the abdomen, and reaches the inferior surface of the liver; there it divides into two large branches, one of which is distributed to the liver, along with the vena porta, while the other soon terminates in the vena cava under the name of ductus renowns. This vein has two valves, one at the place of its bifurcation, and the other at the junc-

tion with the rena cara.

The heart and the large vessels of the foctus capable of life, are very different from what they become after birth; the valve of the vena cava is large; the partibirth; the valve of the venta cava is large; the parti-tion of the auricles presents a large opening provided with a semilunar valve, called foramen ovale. The pulmonary artery, after having sent two small branches to the lungs, terminates almost immediately in the

this place ductus arteriosus.

The last character proper to the circulating organs of the fœtus, is the existence of the umbilical arteries, which arise from the internal iliacs, are directed over the sides of the bladder, attach themselves to the ura-chus, pass out of the abdomen by the umbilious, and go to the placenta, where they are distributed as has been mentioned above.

According to this disposition of the circulating ap-According to this disposition of the circulating apparatus of the feetus, it is evident that the motion of the blood ought to be different in it from that in the adult. If we suppose that the blood sets out from the placenta, it evidently passes through the umbilical vein as far as the liver; there, one part of the blood passes into the liver, and the other into the vena cava: these two directions carry it to the heart by the inferior vena cava; being arrived at this organ, it penetrates into the right auricle, and into the left by the foramen ovale, at the instant in which the auricles are dilated. At this instant, the blood of the inferior vena cava is inevita-bly mixed with that of the superior. How, indeed, could two liquids of the same nature, or nearly so, remain isolated in a cavity in which they arrive at the same time, and which contracts to expel them. I am not ignorant that Sebatier, in his excellent Treatise on the Circulation of the Fatus, has maintained the contrary, but his arguments do not change my opinion in this respect. However it may be, the contraction of the auricle succeeds their dilatation; the blood is thrown into the two ventricles the instant they dilate, these, in their turn, contract, and drive out the blood, the left into the aorta, and the right into the pulmonary artery; but as this artery terminates in the aorta, it is clear that all the blood of the two ventricles passes into the acita, except a very small portion that goes to the lungs. Under the influence of these two agents of impulsion, the blood is made to flow through all the divisions of the acita, and returns to the heart by the vene cave. Lastly, it is carried to the placenta by the umbilical arteries, and returns to the fœtus by the veni of the chord.

It is easy to conceive the use of the foramen ovale, and the ductus arteriosus: the left auricle, receiving little or no blood from the lungs, could not furnish any to the left ventricle if it did not receive it from the opening in the partition of the auricles. On the other hand, the lungs have no functions to fulfil, if all the nand, the uning laws no tunetons to tunit, it as the blood of the pulmonary artery were distributed in them, the impulsive force of the right ventricle would have been vainly consumed; while, by means of the ductus arteriosus, the force of both ventricles is employed to move the blood of the aorta: without the joint action of both ventricles, probably the blood could not have reached the placenta, and returned again to the heart. The motions of the heart are very rapid in the fierus;

they generally exceed 120 in a minute, the circulation

possesses necessarily a proportionate rapidity

A delicate question now presents itself for examination. What are the relations of the circulation of the mother with that of the fietus? In order to arrive at some precise notion on this point, the mode of junction

some precise notion on this point, the mode of panetion of the uterus and placenta must first be examined. Anatomists differ in this respect. It was long be-lieved that the uterine arteries anastomosed directly with the radicles of the umbilical vein, and that the last divisions of the arteries of the placenta opened into the veins of the uterus; but the acknowledged impos sibility of making matters injected into the uterine veins pass into the umbilical veins, and reciprocally to cause liquid matters injected into the umbilical arteries to reach the veins of the uterus, caused this idea to be renounced. It is at present generally admitted, that the vessels of the placenta and those of the uterus do not anastomose

Notwithstanding the high authority of Boerhaave, it cannot be admitted that the fætus continually swallows the waters of the amnion, and digests it for its nourishment. Its stomach indeed, contains a viscid matter in ment. Its stomach indeed, contains a viscul matter in considerable quantity: but it has no resemblance to the liquor amnit; it is very acid and gelatinous; towards the pylorus, it is somewhat gray, and opaque; it appears to be converted into chyme in the stomach, in order to pass into the small intestine, where, after having been acted upon by the bile, and perhaps by the pancreatic juice, it furnishes a peculiar chylc. The remainder descends afterward into the lar e intestine,

norta, in the concave aspect of the arch; it is called in where it forms the meconium, which is evidently the result of digestion during gestation. Whence does the result of digestion during gestation. Whence does the digested matter come? It is probably secreted by the stomach itself, or descends from the esophagus; there is nothing, however, to prevent the fœtus from swallowing in certain cases, a few mouthfuls of the liquor annii; and this seems to be proved by certain hairs, like those of the skin, being found in the meconium It is important to remark, that the meconium is a sub-stance containing very little azote. Nothing is yet known regarding the use of this digestion of the fœtus; it is probably not essential to its growth, since infants have been born without a stomach, or any thing similar. Some persons say they have seen chyle in the thoracic duct of the former.

Exhalations seem to take place in the fietus; for all its surfaces are lubricated nearly in the same manner as afterward; fat is in abundance; the humours of the eye exist: cutaneous transpiration very probably takes place also, and mixes continually with the liquor amnii. With regard to this last liquor, it is difficult to say whence it derives its origin; no sanguiterous vessels appear to be directed to the amnion, and it is nevertheless probable that this membrane is its secreting organ.

The cutaneous and mucous follicles are developed, and seem to possess an energetic action, especially from and seem to possess an energetic action, especially read the seventh month; the skin is then covered by a pretty thick layer of fatty matter, secreted by the follicles: several authors have improperly considered it as a deposite of the liquor annit. The mucus is also abundant

in the last two months of gestation.

All the glands employed in digestion have a consider able volume, and seem to possess some activity; the action of the others is little known. It is not known, for example, whether the kidness form urine, or whether this fluid is injected by the urethra into the cavity of the annion. The testicles and mammas seem to form a fluid that resembles neither milk nor semen, and which is found in the vesiculæ seminalis and lactiferous canals.

What can be said about the nutrition of the fortus? Physiological works contain only vague conjectures on this point; it appears certain that the placenta draws from the mother the materials necessary for the developement of the organs, but what these materials are, or how they are directed, we do not know."—Magendie's Physiology.

OVUM PHILOSOPHICUM. Ovum chymicum. A glass body, round like an egg.

An obsolete alchemistic term used OVUM RUFFUM. in the transmutation of metals.

Ox eye-daisy. See Chrysonthemum leucanthemum.
Or's tongue. See Previs echiodes.
OXALATE. Oxalas. A salt formed by the combination of the oxalic acid with a salifiable basis; thus,

oxalate of ammonia.

OXALIC ACID. Acidum oxalicum. Which abounds in wood sorrel, and which, combined with a small portion of potassa, as it exists in that plant, has been sold under the name of salt of lemons, to be used as a substitute for the juice of that fruit, particularly for discharging ink-spots and iron moulds, the process of the p was long supposed to be analogous to that of tartar. In the year 1776, however, Bergman discovered that a powerful acid might be extracted from sugar by means of the nitric; and a few years afterward Scheele found this to be identical with the acid existing naturally in sorrel. Hence the acid began to be distinguished by the name of succharine, but has since been known in the new nomenclature by that of oxalic. It may be obtained, readily and economically, from sugar in the following way: to six onnees of nitric

acid in a stoppered retort, to which a large receiver is luted, add, by degrees, one ounce of lump sugar coarsely powdered. A gentle heat may be applied during the powdered. A genule neat may be applied during the solution, and nitric oxide will be evolved in abundance. When the whole of the sugar is dissolved, distil of a part of the acid, till what remains in the retoot has a syrupy consistence, and this will form regular crystals, amounting to 58 parts from 100 of sugar. These crystals must be dissolved in water, recrystallized, and dried on blotting paper.

Oxalic acid crystallizes in quadrilateral prisms, the sides of which are alternately broad and narrow, and summits dihedral; or, if crystallized rapidly, in small irregular needles. They are efflorescent in dry air, but attract a little humidity if it be damp, are soluble 143

in one part of hot and two of sold water; and are de composable by a red heat, leaving a small quantity of coaly residuum. 100 parts of alkohol take up near 56 at a boiling heat, but not above 40 cold. Their acidity issogreat, that when dissolved in 3600 times their weight of water, the solution reddens litmus paper, and is perceptibly acid to the taste.

The oxalic acid is a good test for detecting lime, which it separates from all the other acids, unless they are present in excess. It has likewise a greater affinity for lime than for any other of the bases, and forms with it a pulverulent, insoluble salt, not decomposable except by fire, and turning syrup of violets green

Oxalic acid acts as a violent poison when swallowed Oxane actu actus as a violent poison when swallowed in the quantity of 2 or 3 drachins; and several fatal accidents have lately occurred in London, in consequence of its being improperly sold instead of Epson salts. Its vulgar name of salts, under which the acid is bought for the purpose of whitening boot-tops, occasion these lamentable mistakes. But the powerfully acid taste of the latter substance, joined to its prismatic or needle-formed crystallization, are sufficient to dis-tinguish it from every thing else. The immediate re-jection from the stomach of this acid by an emetic, aided by copious draughts of warm water containing bicarbonate of potassa, or soda, chalk, or carbonate of magnesia, are the proper remedies

With barytes it forms an insoluble salt; but this salt will dissolve in water acidulated with oxalic acid, and afford angular crystals. If, however, we attempt to dissolve these crystals in boiling water, the excess of acid will unite with the water, and leave the oxalate,

which will be precipitated.

The oxalate of strontian too is a nearly insoluble compound.

Oxalate of magnesia too is insoluble, unless the acid be in excess

The oxalate of potassa exists in two states, that of a neutral salt, and that of an acidule. The latter is generally obtained from the juice of the leaves of the generally obtained from the fluce of the teaves of the oxadis acclosella, wood-sortel, or rumezacctosa, common sorrel. The expressed juice, being diluted with water, should be set by for a few days, till the feenlent parts have subsided, and the supernatant fluid is become clear; or it may be clarified, when expressed, with the whites of eggs. It is then to be strained off, evaporated to a pellicle, and set in a cool place to crys tallize. The first product of crystals being taken out, the liquor may be further evaporated, and crystallized and the same process repeated till no more can be ob-In this way Schlereth informs us about nine drachms of crystals may be obtained from two pounds of juice, which are generally afforded by ten pounds of wood-sorrel. Savary, however, says, that ten parts of wood-sorrel in full vegetation yield five parts of wood sorrel in full vegetation yield five parts of juice, which give little more than a two-hundredth of tolerably pure salt. He boiled down the juice, however, in the first instance, without clarifying it; and was obliged repeatedly to dissolve and recrystallize the salt

to obtain it white.

This salt is in small, white, needley, or lameHar crystals, not alterable in the air. It unites with barytes, magnesia, soda, ammonia, and most of the metallic oxides, into triple salts. Yet its solution precipitates the nitric solutions of mercury and silver in the state of insoluble oxalates of these metals, the nitric acid in this case combining with the potassa. It attacks iron,

lead, tin, zinc, and antimony,

This salt, besides its use in taking out ink-spots, and as a test of line, forms with sugar and water a pleasant.

cooling beverage; and, according to Berthollet, it possesses considerable powers as an antiseptic.

The neutral oxalate of potassa is very soluble, and assumes a gelatinous form, but may be brought to crystallize in hexahedral prisms with dihedral summits, by adding more potassa to the liquor than is sufficient to saturate the acid.

Oxalate of soda likewise exists in two different states, those of an acidulous and a neutral salt, which in their properties are analogous to those of potassa

The acidulous oxalate of ammonia is crystallizable, not very soluble, and capable, like the preceding acidules, of combining with other bases, so as to form triple salts. But if the acid be saturated with ammonia, we obtain a neutral oxalate, which on evaporation yields very fine crystals in tetrahedral prisms with dibedral summits, one of the planes of which cuts off three sides of the prism. This sait is decomposable by fire, which raises from it carbonate of anumonia, and leaves only some slight traces of a coaly residuum. Lune, barytes, and stroutian unite with its acid, and the anumonia flies off in the form of gas. The oxalic acid readily dissolves ulumina, and the

solution gives, on evaporation, a yellowish transparent softmorgives and a little astringent to the taste, deli-nase, aweet and a little astringent to the taste, deli-quescent, and reddening incture of linnus, but not syrup of violets. This saft swells up in the fire, loses its acid, and leaves the alumina a little coloured."

OX'ALIS. (From οξυς, sharp: so called from the parpness of its juice.) The name of a genus of plants sharpness of its juice.) in the Linnæan system. Class, Decandria; Order,

Pentagynia. Wood-sorrel.

Oxalis Acetosella. The systematic name of the wood-sorrel. Lujula; Alleluja. Oxalis—foliis ter The systematic name of the wood-sotret. Lighta; Intensia Consults termatis, scape uniflore, force also, capsuits pentagonis elasticis, radice squamoso-articulata, of Linnueus. This plant grows wild in the woods, and flowers in April and May. The leaves are shaped like a heart, standing three together on one stalk. The acetosella is totally three together on one stalk. The acetosella is totally inodorous, but has a grateful acid taste, on which account it is used in salads. Its taste is more agreeable than the common sorrel, and approaches nearly to that of the juice of lemons, or the acid of tartar, with which it corresponds in a great measure in its medical effects, being esteemed refrigerant, antiscorbutic, and diuretic It is recommended by Bergius, in inflammatory, bi-lious, and putrid fevers. The principal use, however, lous, and putrid fevers. The principal use, however, of the acetosella, is to allay inordinate heat, and to quench thirst; for this purpose, a pleasant whey may be formed by boiling the plant in milk, which under certain circumstances may be preferable to the conserve directed by the London College, though an extremely grateful and useful medicine. Many have employed the root of Lujula, probably on account of its beautiful red colour rather than for its superior efficacy. A salt is prepared from this plant, known by the name of essential salt of lemons, which is an acidulous oxalate of potassa, and commonly used for taking ink-stains out of linen. What is sold under the name of essential saft of lemons in this country, is said by some to consist of cream of tartar, with the addition of a small quantity of sulphuric acid. The leaves of woodsorrel when employed externally in the form of poultices, are powerful suppurants, particularly in indolent scrofulous humours.

OXA'LME. (From JEUS, sharp, and als, salt.) A

mixture of vinegar and salt.

Ord. See Oxide.

OXIDATION. The process of converting metals and other substances into oxides, by combining with them a certain portion of oxygen. It differs from acidification in the addition of oxygen not being sufficient

to form an acid with the substance oxided.

ONIDE. (Oxydum, i, n.; formed of oxygen, with the terminal ide. See Ide.) Oxyd. Oxid. Oxyde. A substance combined with oxygen without being in the state of an acid. Many substances are susceptible of several stages of oxidizement, on which account chemists have employed various terms to express the characteristic distinctions of the several oxides. specific name is often derived from some external character, chiefly the colour; thus we have the black and red oxides of iron, and of mercury: the white oxide of zinc; but it most instances the denominations proposed by Dr. Thompson are adopted. When there are se-veral oxides of the same substance, he proposes the terms protoxyde, deutoxyde, tritoxyde, signifying the first, second, and third stage of oxidizement. Orif two oxides only are known, he proposes the appellation of protoxyde for that at the minimum, and of peroxyde for that at the maximum of oxidation. The compounds of oxides and water in which the water exists in a condensed state, are termed hydrates, or hydroxures.

Oxide of carbon, gaseous. See Carbon, gaseous ox-

Oxide, nitric. See Nitrogen.

Oxide, nitrous. See Nitrogen.
OXYCA'NTHA. (From ofus, sharp, and arayda, a thorn: so called from the acidity of its fruit.) The barberry.

OXYCENTHA GALENI. See Berberis:
OXYCE DRUS. (From oyo, acutely, and kedpos, acceder: so called from the sharp termination of the leaves.) 1. A kind of cedar.

2. Spanish juniper, a species of juniperus. OXYCO CCOS. (From ofus, acid, and коккоз, a berry: so named from its acidity.) See Vacculum

OXY CRATUM. From ogus, acid, and κεραννυμι, to mix.) Oxycrates. Vinegai mixed with such a portion of water as is required, and rendered still inider by the addition of a little honey.

OXYCRO CEUM EMPLASTRUM. (From ogos, acid, and крокоз, crocus, saitcon.) A plaster in which there is much saifton, but no vinegal necessary, unless in dissolving some gums

Oxyd. See Oxide. Oxyde. See Oxid

OXYDE REICA. From ogus, acute, and depres, to see.

OXYDULE. Synosymon with protoxide.
OXYDULE. Synosymon with protoxide.
OXYDUM. So called from oxygen, which enters into its composition.) See Ond

OXYDUM ANTIMONII. See Internate exydum.

OXYDUM ARSENICI ALBUM. Son Arseni OXYDEM CUPRI VIRIDE ACETATOM. See Verligris.

Oxydem Ferral Largem. See Ferri subcartomas.
Oxydem Ferral Mercen. Black oxide of non. The
Scales which full from 1000, when heated, consist of
1000 combined with oxygen. These have been employed medicinally, producing the general effects of chalybeates, but not very powerfully.

OXYDUM FERRI RUBRUM. Red oxide of iron. In this the metal is more highly oxidized than in the black. It may be formed by long continued exposure to heat and air. Its properties in medicine are similar to other preparations of iron. It is frequently given internally.

OXYDUM HYDRARGYRI CINEREUM. See Hydrargyri

OXYDUM IIYDRARGYRI NIGRUM. See Hydrargyri oxydum cinercum.

OXYDUM HYDRARGYRI RUBRUM. See Hydrargyri orydum rubrum.

OXYDUM PLUMBI ALBUM. See Plumbi subcarbonus

Oxydem Plumbi Rubrum. See Lead. Oxydum Plumbi semivitrei m. See Lythargyrus.

OXYDUM STIBII ALBUM. See Antimonicoxydu OXYDUM STIBII SEMIVITROI M. A VITEOUS ON Oxydum stient semivitreatm. A vitreous oxide of antimony. It was formerly called Vitrum antimonic and consists of an oxide of antimony with a little sulit is employed to make autimonial wine.

Oxynum syrun schafferatum. This is an oxide of antimony with sulphur, and was formerly called Higher antimoni; Crous metallorum, Crous antimoni. It was formerly exhibited in the tone of fevers and atomic diseases of the lungs. Its principal use now is in preparing other medicines.

Oxyoum zixer. See Zenciorydum.

OXYOUN ZING SUBLIMATUM. See Zinci oxydum. OXYG ARUM. From oxis, acid. and yapov, garum.)

A composition of garma and vinegar.

OXYGEN. (Orageneous: 1000 ofee, acid, and yrrano, to generate, because it is the generator of acidity.) This substance, although existing sometimes in a solid and sometimes in an acidoral state, is never distinctly perceptible to the human senses, but in com-

We know it only in its combination, by its effects. Nature never presents it solita.y: chemists do not know how to insulate it. It is a principle which was long unknown. It is absorbable by combustible bodies, and converts from into oxides or acids. It is an incli-pensable condition of combustion, uniting itself an avto bodies which burn, augmenting their weight, and changing their properties. It may be disengaged in the state of oxygen gas, from burned bodies, by a joint accumulation of caloric and light. It is highly accessary for the respication of animals. It exists universally dis-persed through nature, and is a constituent part of at-mospheric air, of water, of acids, and of all bodies of the animal and vegetable kingdoms.

One of the most remarkable combinations into which it is capable of entering, is that which it forms with light and caloric. The nature of that mysterious union has not been ascertained, but it is certain that, in that state, it constitutes the gaseous third called oxygen

GAS.

Properties of oxygen gas.—Oxygen gas is an elastic ravisible fluid, like common air, capable of indefinite expansion and compression. It has neither taste not calour, nor does it show any trace- of an acid.

cific gravity, as determined by Kirwan, is 0.00135, that of water being 1.0000; it is, therefore, 740 times lighter than the same bulk of water. Its weight is to atmosthan the same outs of water. As weight in a disas-pheric air as 1103 to 1600. One lundred and sixteen cubic inches of oxygen gas weigh 39.39 grains. It is not absorbed by water, but entirely absorbable by combus-tible bodies, which, at the same time, disengage its caloric and light, producing in consequence a strong heat and flume. It rekindles almost extinct combustible bodies. It is indispensable to respiration, and is the cause of animal heat. It hastens germination. It combines with every combustible body, with all the metals, and with the greater number of vegetable and animal salistances. It is considered as the cause of acidity; and from this last property is defived the name oxygen, a word denoting the origin of acidity.

The act of us combining with bodies is called oridrs. nent, or organization; and the bodies with which it is combined are called ordes, or acids.

Overen gas is the chief basis of the pneumatic doc-

.M thous of obtaining orugen gas .- We are at present acquainted with a great number of bodies from which we may, by art, produce oxygen gas. It is most amply obtained from the oxides of manganese, lead, or mereny, from intrate of potassa; from the green leaves of vegetables, and from oxychlorate of potassa or soda. Besides these, there are a great many other substances from which oxygen gas may be procured.

In order to procure oxygen gas in a state of great punity, pure oxychlorate of potassa or soda must be made use of. With this view, put some of the salt into a small earthen or glass retort, the neck of which is placed under the shelf of the pneumatic trough, filled with water; and heat the retort by means of a lamp. The salt will begin to melt, and oxygen gas will be obtained in abundance, and of great purity, which may be collected and preserved over water.

ne confected and preserved over water. Feethandson.—Oxycliforate of potassa consists of oxygen, chlorine, and potassa. At an elevated tem-perature, a decomposition takes place, the oxygen unites to the caloric, and forms oxygen gas. The oxychlorate becomes therefore converted into simple chlo-

rate of pota-sa.

2. Oxygen gas may likewise be obtained from the green leaves of vegetables.

this purpose fill a bell-glass with water, introduce fresh gathered green leaves under it, and place the bell, or receiver, inverted in a vessel containing the same fluid; expose the apparatus to the rays of the sun, and very pure oxygen gas will be liberated.

The emission of oxygen gas is proportioned to the vigour of the plant and the vivacity of the light; the quantity differs in different plants, and under different

Explanation.-It is an established fact, that plants decompose carbonic acid, and probably water, which serve for their nourishment; they absorb the hydroserve for their nourishment; they absorb the hydro-gen and carbon of these fluids, disengaging a part of the oxygen in a state of purity. Light, however, fa-vours this decomposition greatly; in proportion as the oxygen becomes disengaged, the hydrogen becomes fixed in the vegetable, and combines partly with the carbon and partly with the oxygen, to form the oil, &c. of the vegetable

3. Nitrate of potassa is another substance frequently made use of for obtaining oxygen gas, in the following

Take any quantity of this salt, introduce it into a coated earthen or glass retort, and fit to it a tube, which must be pininged into the pieumatic trough, un-der the receiver filled with water. When the appara-tus has been properly adjusted, heat the retort gra-dually, till it becomes red-hot; the oxygen gas will then be disengaged rapidly.

Explanation.-Nitrate of potassa consists of nitric acid and potassa. Nitric acid consists again of oxygen and nutrogen. On exposing the salt to ignition, a partial decomposition of the acid takes place; the greatest part of the oxygen of the uttric acid unites to calone, and appears under the form of oxygen gas. The other part remains attached to the potassa in the state of attrous acid. The residue in the retort is, therefore, intrate of potassa, if the process has been carried only to a certain extent.

Remark.—If too much heat be applied, particularly

towards the end of the process, a total decomposition

Aperient, expectorant, and detergent virtues, are attriglass vessel, with a slow fire, to the proper thickness. an acrid medicaring distribution of clarified honey, three distributions are settles. Take of clarified honey, three in a few man with the contract of the con

an acrid medicine, but is nevertheless employed, for its

OXYMEL GENERIC: OXYMET OF INCRUM CTURINS.

WILL WALET. is siso employed in the form of gargie, when diluted sases of the chest, in doses of one or two drachms. expectorating virtues; and is given, with these intenparation of honey and vinegar possesses aperient and mex aculus.

O'XYMEL. (Oxymel, lits. n.; from o'ges, seid, and box aculus.

O'XYMEL sponselt. Adapson. Honey said vinepart, foney.) Aponett. Med accidation. Now called

Oxymel simplex. Take of clarified honey, two pounds:

Oxymel simplex. Take of clarified honey, two pounds:

occupants and a pint. Boil them down to a proper conpresent a proper co

Bov, the dock: so named from its acidity.) See Kuses. Lussac calls them codutes.

OXYIODE. A term applied by Sir H. Davy to the triple compounds of oxygen, iodine, and the metallic Oxyoly'cux. (From ofus, acid, and ylnkus, sweel.) Wariode. A term applied by Sir H. Davy to the

Oxygenized nitric acid. See Nitric acid oxy-

Oxygenized murialic acid. See Muriatic acid ory

place only when an oxide is formed. duct may be, is an oxygenation; but oxidation takes import, as every union with oxygen, whatever the pro-Oxygenated murante acid. See Chlorine.

Oxygenated murante acid. See Chlorine word is often used instead of oxidation, and frequently confounded with it, but it differs in being of more general founded with it, but it differs in being of more general.

s. The mercury then reappears in its metallic state. mercury; it therefore abandons it, and forms oxygen converted into an oxide; but if the temperature be in-creased, the attraction of oxygen is changed. The oxygen then attracts caloric stronger than it did the oxygen and mercury, the combination of which takes blace on exposing mercury to a first of about 6190 Fahr. At this degree it attacts oxygen, and becomes from the temperature be in-

Description of inauganese.

Explanation—This oxide consists likewise of solid Red oxide of mercury yields oxygen gas in a man-

a lamp is sufficient. phuric acid be previously added to the manganese, the gas is produced by a less hear, and in a larger quan-ity, a glass retort may then be used, and the heat of 1400 cubic inches of oxygen gas, nearly pine. It suf-One pound of the best manganese yields upwards of

a gray oxide of mangamese. mainder of the oxygen remains united to the metal with a forcible affinity; the metal, therefore a procedure is the metal, therefore is the min the state, or is found in the state to a gray oxide of management. together with many carthy impurities, an applying head, part of the solid oxygen quits the gas, the re-unites to caloric, in order to form oxygen gas; the re-unites to caloric or order to form oxygen gas, the re-managed or the oxygen gas and the metal

meral called manyanese fully saturated with oxygen. Explanation.—Black oxide of manganese is the comes ignited, oxygen gas is obtained plentifully. charged with it and heated. As soon as the retort, be then its cheapness. This native oxide is reduced to a conise then lett in the retort is potasea, A. Black oxide of manganese, however, is generally made use of for obtaining oxygen gas, on account of made use of for obtaining oxygen gas, on account of

found to correspond very exactly with the weight of

(fragrance.) See Ocymum. (From ofto, to smell; so called from its WINYZ,O

not be confounded with abscesses in the upper jaw-rarely destroys. The ozena is often scrothlous and venereal complaints, in the latter proses in the morning, and is sometimes attended with proses in the morning, and is sometimes. Alter the site of the classical standily extends round the sin rasis to the cheek, but soldon far from the mose, the also of vabich also it may describe the complete of the completions and veneral completing. In the latter strain of the completions in the completions. gradually assumes the appearance of pus, is most co with a triffing tomefaction and reduess about the ala nasi, accompanied with a discharge of mucus, with which the nostril becomes obstructed. The matter tioned alcer in the antrum. The first meaning is the original one. The disease is described as coming on Some authors have signified by the term, an ill condi-tioned alcer in the autrum. The first meaning is the in the nose, discharging a fortid purulent marter, and sometimes accompanied with caries of the bones. Onstreshell, See Osbra. ONENA.

forth, Medicines which promote acid than us (NY TOCA, (From elge, quick, and taxta, to bring (NYT) HPLY LLUM (From elge, acid, and roc (acid, acid, ac

OXYSAL DIAPHORETICUM. A proparation of Angelo

Xapov, sugar.) A composition of vinegar and sugar. ONVESACCHARTM. (From of vg. acid, and dox

Very other stock. From cere, with and point, the old of trocks, Arming days, (From cere, with and point, the old of trocks, Arming days, (From cere, with and prophenia, OXYPRE GAIA, (From cere, with and expression of the old of trocks, In witherness of voice. See Prophenia caid. OXYPRE GAIA, (From cere, See Prophenia caid. OXYPRE GAIA, Armanientes of voice. See Prophenia caid. OXYPRE GAIA, (From cere, See Chornegains caid. OXYPRE GAIA, Armanientes of Prophenia.)

ened places. An acute inflammation. As a content and pre-

in darkness, have learned to read and write in darkgrown to breede the guild seven; and it has been known to precede the guild seven; and it has been known to precede the guita serence, and it has been only of MURATURE. See John weer and interpretable of the grant more anneals. This composition chiefly of trugger and interpretable of the grant of the gra

OXYVAITHATIC ACID. See Chlorine. OXYVAITH ST. Composing south and proposal and its proceeding to myrile, and its promotion of the myrile.

CHANNERIAS HYDRARGYRI, See Hydrargyri oxyconsultation of the same of th

which it would otherwise be apt to excite. of the nitric soid takes place; the oxygen gas, in that the case, will therefore be mingled with nitrogen gas, in that the very gas when the great min be great in the great min be from the present the great min be from the present with the from the great min be from the present with the great min be from the present with the great min be from the present with the great min be from the great min be from the great min per min pe P. A contraction of pugillus, a pupil, or eighth part ! of a handful, and sometimes a contraction of pars or partes, a part or parts.

P. E. A contraction of partes equalis.
P. P. A contraction of pulvis patrum, Jesuit's powder; the Cunchona tonorf, lea.
PAAW, Peter, was born at Amsterdam, in 1564.
After studying four years at Leyden, he went to Paris, and other celebrated schools, for improvement; and took his degree at Rostock. Thence he repaired to Padua, and attended the dissections of Fabricus ab Aquapendente; and, possessing a good memory, as well as great assiduty, he evinced such respectable acquirements, that he was appointed to a medical professorship on his return to Leyden in 1589. ambition was centred in supporting the dignity and utility of this office; and he obtained general esteem unity of this office; and he obtained general esteem.

Anatomy and botany were his lavourite pursains: and
Leyden owes to him the establishment of its botanic
garden. He died in 1617. Besides some commentaries on parts of Hippocrates and other ancient authors, he left a treatise on the Plague, and several other
works, chiedly anatomical.

PA'BULUM. (From pasco, to feed.) Food, ali-

ment.

PABULUM VITE. The food of life. Such are the different kinds of aliment. The animal heat and spi-

rits are also so called.

PACCHIONI, Anthonio, was born at Reggio, in 1664. After studying there for some time he went to complete himself at Rome under the celebrated Malpight; who subsequently introduced him into practice at Tivoli, where he resided six years with considerable reputation. He then returned to Rome, and assisted Lancisi in his explanation of the plates of Eustachnus. He devoted also great attention to dissection, particularly of the membranes of the brain. In his first work, he assigned to the dura mater a contractile power, whereby it acted upon the brain; this notion obtained temporary celebrity, but it was confinted by Baglivi. and other anatomists. He afterward announced the discovery of glands near the longitudinal sinus, from which he alleged lymphatics pass to the pia mater; this involved him in farther controvenes. He was a member of several learned academies, and died in 1726. Among his postiminous works is one on the mischief of epispastics in many diseases.

mischief of epispastics in many diseases.

Pacchieman glands. See Glandske Parchientæ.

Pachty'strea. (From waypen, to merassate.) Medicines which incrassate or thicken the fluids.

Pa'enys. Hayes, thick. The name of a disorder described by Hippocrates, but not known by us.

Pa'DUS. A name borrowed from Theophrastus, who gives no other account of his zuice, than that it greatly delights in a shady situation, like the yew. The term is now applied to the bird cherry. See Pruse radius.

nus padus. PAGODITE (or Bildstein of Werner). Nothing is known of the natural situation or associations of this mineral. It is brought from China, and always under some artificial form; and hence it is sometimes called Figure or Sculpture stone, or Bilastein. These figures are supposed often to represent the fidols or pagodas of the Chinese. The Bildstein is susceptible of a polish" — Clean. Min. A.]

Pædancto'se. (From ωαις, a child, and αγχω, to strangulate.) A species of quinsy common among children. Figure or Sculpture stone, or Bildstein. These figures

PÆDARTHRO CACE. (From wats, a boy, aρθοον, a joint, and κακον, an evil.) The joint evil. A sero fulous affection producing an ulceration of the bones which come ajoint

PÆNRA. See Penæa.

PÆO'NIA. (From Pæon, who first applied it to medicinal purposes.) Pæony.

1. The name of a genus of plants in the Linnwan Discontinuous Cortex, Digmia.

system. Class, Pulyandria; Order, Digynia.

2. The pharmacopæial name of the common pæony

See Paonia officinalis.

PEONIA OFFICINALIS. The systematic name of the common peony; male and female peony. This plant, Paonia .- folus oblongis, of Linneus, has long been considered as a powerful medicine; and, till lately, had a place in the catalogue of the Materia Medica; in which the two common varieties of this plant are indiscriminately directed for use: and, on the authority of G. Bauhin, improperly distinguished into male and female parony

The roots and seeds of paony have, when fresh, a faint, unpleasant smell, somewhat of the narcotic kind, famir, ampleasant smell, some what of the marcotic kind, and a mucilaginous subacrid taste, with a slight degree of bitterness and astringency. In drying, they lose their smell and part of their taste. Extracts made from them by water are almost insipid, as well as in-odorous; but extracts made by accinited spirits are manuscity bitterish, and considerably adstringent. The flowers have tather more smell than any of the other parts of the plant, and a rough sweetish taste, which they impart, together with their colour, both to water

The roots, flowers, and seeds of paony have been The roots, nowels, and seeds of paony nave been esteemed in the character of an anolyne and corroborant, but more especially the roots; which, since the days of Galen, have been very commonly employed as a remedy for the epilepsy. For this purpose, it was usual to cut the root mo thin slices, which were the attached to a surround supported bout the to be attached to a string, and suspended about the neck as an amulet; if this failed of success, the patient was to have recourse to the internal use of this root, which Wilhs directs to be given in the form of a pow-der, and in the quantity of a drachin, two or three times a day, by which, as we are informed, both infants and adults were cured of this disease. Other authors and shalls were cured of this disease. Other authors recommended the expressed juice to be given in wine, and sweetened with sugar, as the most effectual way of administering this plant. Many writers, however, especially in modern times, from repeated trials of the parony in epiteptic cases, have found it of no use whatever; though Professor Home, who gave the radix pasonas to two epiteptics at the Edinburgh infirmary, pasonias to two epicptics at the Edinburgh infirmary, declares that one received a temporary advantage from its use. Of the good effects of this plant, in other disorders, we find no instances recorded.

PAIGIL. See Primula veris.

PAIN. Alyn. Obun. Dolor. Any unpleasant sensation, or irritation.

PAIN. AND. Occup. Dolor. Any unpleasant sensation, or irritation.

Pawoter's calic. See Colica pictonian.

Paktrong. The white copper of the Chinese, sald to be an alloy of copper, nikel, and zinc.

PALATIC See Patatum.

PALATI CIRCUMPLEXUS. See Circumflexus palati.

PALATI LEVATOR. See Levator palati.

PALATI OS. The palate bone. The palate is formed by two bones of very irregular figure. They are placed between the ossa maxiliaria superiora and the os sphenoides at the back part of the roof of the mouth, and extend from thence to the bottom of the orbit. Each of these bones may be divided into four parts, viz. the inferior, or square portion, the perygoid process, the nasal lamella, and orbitar process. The first of these, or the square part of the bone, helps to form the palate of the mouth. The upper part of its internal edge rises into a spine, which makes part of the septim narium. The prerygoid process, which is smaller above than below, is so named from its being united with the pterygoid process of the sphenoid bone, smaler above than below, is so named from its being united with the pterygoid process of the sphenoid bone, with which it helps to form the pterygoid fosses. It is separated from the square part of the bone, and from the masal lamedla, by an oblique fossa, which, applied to such another in the osmaxullare, forms a passage for a branch of the fifth pair of nerves. The nasal lamella is nothing more than a very thin bony plate, mella is nothing more than a very time only pair, which arises from the upper side of the external edge of the square pair of the bone. Its inner surface is concave, and furnished with a ridge, which supports the back pair of the os spongiosum internus. Externally it is convex and firmly under to the maxillary bone. The surface process is more integral at han any other part of the bone. It has a smooth surface, when it helps to form the orbit; and, when viewed in its place, we see it contiguous to that part of the orbit which is formed by the os maxillare, and appearing as

a small triangle at the inner extremity of the orbitar process of this last-mentioned home. This fourth part of the os palati likewise helps to form the zygomatic fossa on each side, and there its surface is concave Between this orbitar process and the sphenoid bone, a Between this ofma, process and the spiennid home a hole is formed, through which as artery, vent, and nerve are transmitted to the most ids. The ossa palati are complete in the retus. They are joined to the ossa maxillaria superiora, ossphenoides, os ethinoides, ossa

maxillaria superiora, osspienoides, os etilinoides, ossa spongiosa interiora, and vomer.

PALATI TENSOR. See Circumflexus.

PALATO. Names compounded of this word belong to muscles which are attached to the palate.

PALATO-PHARYNGETS. (So called from its origin in the palate and insertion in the platram.) A muscle situated at the sale of the entry of the lances. There extendings of houghs. The entry of the lances. studied as the construction of the flaces. Flaces of Winslow; and palato-phearings of Dinnas, I arises by a broad beginning from the middle of the velum pendulum palati at the root of the uvulla posse. riorly, and from the tendinous expansion of the cir-cumflexus palati. The fibres are collected within the posterior arch behind the tonsils, and run backwards to the top and lateral part of the pharynx, where the fibres are scattered and mixed with those of the stylohores are scattered and mixed with unuse of the stylo-pharyageus. It is inserted into the edge of the upper-and back part of the thyroid cartriage. Its use is to draw the uvula and velum pendulum paiati down-wards and backwards, and at the same time to pull wards and obewards, and at the same time to pull the thyroid cartilage and playaya upwards, and shorten it, with the constructor superior playayas and togene, it assists in shutting the passage into the nostrils; and in swallowing, it thrusts the food from the fauces into the pharvnx.

PALATO-SALFINGEUS. (From palatum, the palate, and αλπιγξ, a trumpet; so called from its origin in the palate, and its trumpet-like shape.) See Circumflexus.

PALATUM. (Palatum, v. n.: from palo, to hedge in; because its staked in, as it were, by the teeth.)

1. The palate or roof of the mouth.

2. An eminence of the infection in of the corolla of presented figures which, clears the parameters are presented figures.

personate flowers which closes them; as in Antirchi num. See Corolla.

PALATUM MOLLE. The soft palate. This lies be hand the bony palate; and from the middle of it the uvula hangs down.

PALEA. (Palae, c.f.; chaff.) Chaff, or short, linear, obtuse dry scales.

PALEA DE MECHA. A name given by some to the

PALEACEUS PALEACEUS (From palea, chaff.) Chaffy, or covered with chaff. Applied by botanists to the receptacles of plants; as those of the Xeranthemum. Zin

na, Anthones, &c. See Receptuculum.
PALIMPT'SSA. (From maker, repetition, and megas, pitch.) Dioscorides says, that dry pitch is thus named, because it is prepared of pitch twice boiled.

Palindro mia. (Παλιν, again, and δρομος, a course.)
This term is used by Hippocrates for any regurgitation of humours to the more noble parts: and sometimes

for the return of a distemper. Paliu'rus. (From  $\pi a \lambda \lambda \omega$ , to move, and outor, urine; so called from its diuretic qualities.) The Rham-

nus paliuru PALLADIUM. A new metal, first found by Dr. Wollaston, associated with platina, among the grains with iridium and osmium: scattedy distinguishable from the crude platina, though it is harder and heavier.

PALLAS, PETER SIMON, was born at Berlin, where his father was professor of Surgery, in 1741. He ap plied early and assiduously to his studies, particularly to dissection, insomuch that he was enabled, at the auc of 17, to read a public course on anatomy. He then went to Halle, and in 1759 to Gottingen, where a severe illness for some time inte rupted his pursuits; but he afterward made numerous experiments on poisons, and dissections of annuals; and composed a very ingenious treatise on those which are found within others particularly the worms occurring in the human body.

In the following year, he took his degree at Leyden, then travelled through Holland and England, directing his attention almost entirely to natural history. 1762, his father recalled him to Berlin; but allowed him soon after to settle at the Hague, where he could better prosecute his favourite studies; the fruit of

which shortly appeared in a valuable treatise on 200-phytes, and some other publications and he was ad-inited into the Royal Society of London, and the Academy Natura Curesorum, to which he had sent Academy Natura Curicsorum, to which he had sent interesting papers. About this period he meditated a vegato to the Cape of Good Hope, and other Dutch seitlements: but his talker again recalled him in 1766. However, in the following year, he was induced by Carbarne II, to become professor of natural bistory at St. Petersburgh. Thence, in 1765, he set out, with same offer philosophicis, on a scientific tour, as far as Shorta, which occupied six feats. Of this he afterward published a most interesting account in five quarry volumes comprehending every thing memorable. quarto volumes comprehending every thing memorable quarto volumes comprehending cyty thing, in the several provinces which he had visited. This was followed by a particular history of the Mongul tribes, who had, at different periods, overrun the greater part of Asra, and whom he clearly proved to be a dis-ting tree from the Tartars. In 1777 he read before the academy a dissertation on the formation of mountains, and the changes which this clobe has undergone, parfrom time to time, numerous works relative to zoology, botany, a riculture, and geography. About the year 1784, he received signal proofs of the empress's favour; who not only considerably increased his salary, and conferred upon him the order of St. Vladimir, but learning that he wished to dispose of his collection of learning that he wished to dispose of his collection of matural history, gave him a greater price than he had valued it at, and allowed him the use of it during his life. In 1794, he travelled to the Crimea, of which he published an account on his return; and his health now beginning to decline, the empress presented him an estate in that province, with a liberal sum for his establishment. Unfortunately, however, the situation was particularly unhealthy, and proved very inpirious to his family. At length he determined to visit his bartler, and his native city where he disablating our services. brother, and his native city, where he died shortly after,

PALLIATIWE. (Palliatives; from pallio, to dissemble.) A medicine given only with an intent to palling or relieve pains in a fatal disease.

Polm oil. See Cocos buturacea. PALMA CHRISTI. See Ricinus.
PAL'MA. (From waλλω, to move.)

I. The palm of the hand.

2. A paint tree. See Palma PALMA. From palma, the hand so called because the leaves are extended from the top like the finger upon the hand. Palms. One of the natural famihes of plants which have trunks similar to trees, but come under the term stipes, the tops being frondescent, that is, sending oif leaves. Palms are the most lofty, and in some instances, the most long lived of plants, and have therefore justy acquired the name of trees. Yet Sir James Smith observes, paradoxical as it may seem, they are rather perennial herbaceous plants, having nothing in common with the growth of trees in general. Palms are formed of successive circular crowns of leaves which spring directly from the root. These leaves and their footstalks are fundshed with bundles of large sap-vessels, and returning-vessels, like the leaves of trees, when one circle of them has performed its office, another is formed within it, which, being confined below, necessarily rises a little above the for-Thus, successive chicles grow one above the other: by which the vertical increase of the plant is almost without end. Each circle of leaves is independent of its predecessor, and has its own cluster of versels; so that there can be no aggregation of woody

PALMARIS. (Polmaris; from palma, the hand.)

Belonging to the hand.

PAMARIS REEVIS. Palmanis brenis zel caro quadrata, of Donglas; and Falmane catané, of Dumas. A small, thin, cutaneous flexor muscle of the hand situated between the wrist and the little finger. Falloping tells us that it was discovered by Cananus. Winslow names it pulmanes cutaneus. It arises from a small part of the internal annular ligament, and inner edge of the apomenrosis palmanis, and is inserted by small bundles of fleshy filters into the or hisiforme, and inte bundles of fleshy fibres into the os pisiforme, and into the sign and fat that cover the abductor minimi digiti. This muscle seems to assist in contracting the palm of the hand.

PALMARIS CUTANEUS. See Palmaris brevis.
PALMARIS LONGUS A flexor muscle of the arm,

cituated on the fore arm, immediately under the integu-ments. Ulnaris gracilis, of Winslow; and Epitro-chlo carpi palmaire, of Dumas. It arises tendinous from the inner condyle of the os humeri, but soon becomes fleshy, and after continuing so about three inches, terminates in a long slender tendon, which, near the wrist, separates into two portions, one of which is inserted into the internal annular ligament, and the other loses itself in a tendinous membrane. that is nearly of a triangular shape, and extends over the palm of the hand, from the carpal ligaments to the roots of the fingers, and iscalled aponeurosis palmaris. Some of the fibres of this expansion adhere strongly to the metacacpal bones, and separate the muscles and tendons of each finger. Several anatomical writers have considered this aponeurosis as a production of the tendon of this muscle, but seemingly without reason because we now and then find the latter wholly inserted into the carpal ligament, in which case it is perfeetly distinct from the aponeurosis in question; and in some subjects, the palmaris longus is wenting, but the aponeurosis is always to be found. Rhodous, in-deed, says that the latter is now and then dericent, but there is good reason to think that he was mistaken. This muscle bends the hand, and may assist in its pro-nation: it likewise serves to stretch the apone nosis palmaris

PALMATUS. Palmate. Applied to leaves, cut, as it were, into several oblong, nearly equal segments, about half-way, or rather more, towards the base leaving an entire space like the palm of the hand; as

PA'LMOS. (From waλλω, to beat.) A palpitation

of the heart.

PA LMULA. (Diminutive of palma, the hand: so

PALMULA. (Diminutive of paima, the hand; so called from its shape.) 1. A date.

2. The broad and flat end of a tib.
PALPEBRA. (A palputama, from their frequent motion.) The eventh, distinguished into upper and under; at each end they unite and form the canthi. Palpebra superioris, levator. See Livator palpe

bræ superioris.

Palpebrarum aperiens rectus. See Levator palpe bræ superiores.
PALPITA'TIO. 1. A palpitation or convulsive

motion of a part. 2. Palpitation of the heart. A genus of diseases in

PALSY. See Paralysis.
PALSY See Paralysis.
Pales in and adout Spassa, of Cullen.
PALSY See Paralysis.
Pales rium. (From Palus a lake, and apium, smallage: so mande because it grows in and about rivulets.) A species of smallage.

Pa'lus sanctus. A name of guaiacum. Pamphi mum. (From was, all, and ψιλος, grateful so called from its extensive usefulness) A plaster described by Galen. PAMPINIFORM.

PAMPINIFORM. (Pampiniformis; from pampinus, a tendril, and forma, a likeness.) Resembling a tendril; applied to the spermatic chord and the tho-

PANA CEA. (From way, the neuter of was, all, and account to one., An epathet given by the amounts to those remedies which they conceived would one every disease. Unfortunately for men of the present day there are no such remedies.

Panacea ducis holsatle. The sulphate of potassa

PANACEA DUPLICATA. Sulphate of potassa. PANACEA VEGETABLIS. Sallion.

PANNADA. Dunimitive of pane, bread, Ital.) Panata: Panatella. Bread boiled in water to the consistence of pap. Dry biscuits soaked are the best for this purpose

PANALE THES. '(From wav, all, and aληθης, true.) A name of a cephalic plaster, from its universal efficacy.

PA'NARIS. (Corrupted from paronychia.) See Paronychia.

PANARI'TIA. (Corrupted from paronychia.)

Paronychia.

PA'NAX. (A name borrowed from the old Greek PA NAX. (A name borrowed from the old Greek botanists, whose παίας, or παίαςπε, was so denominated from παίς, all, and ακός, medicine, because of its abundant virtues. The name being unoccupied, Linneus adopted it for the Chinese ginseng, that famous restorative and panaeea, the reputed virtues of which yield in no respect to the ancient panax.) 1. The name of a genus of plants in the Linnean system. Class, Polygamia; Order, Diacia. 2. A name of the Hercules' all-heal. See Lacorpi-

PANAN QUINQUEFOLIUM. The systematic name of the plant which affords the ginseng root. the plant which alors the glibeng root. Changes, the Panax-Policis terms quantits of Linneus. The root is imported into this country scarcely the thickness of the little finger, about three or four inches long, frequently forked, transversely wrinkled, of a horny texture, and both internally and externally of a yellowishwhite colour. To the taste it discovers a mucilaginous sweetness, approaching to that of liquorice, accompanied with some degree of bitterness, and a slight aromatic warmth. The Chinese ascribe extraordinary virtues to the root of ginseng, and have no confidence in any medicine unless in combination with it.

Burope, however, it is very seldom employed.

Pascenters of from ray, all, and \$\chi \text{prop}\$, useful: so named from its general usefulness.) Panchriston. 1. An epithetrol a collyrium described by

2. It has the same signification as Panacea.

Panetrymago ga. (From  $\varpi a_V$ , all,  $\chi e_{\mu o_S}$ , success, humour, and  $a_{VW}$ , duco, to lead or draw.) This term is a sented to such medicines as are supposed to purge all homours equally alike; but this is a conceit now

PANCE'NUS. (From mas, all, and kouvos, common.) Epidemic. Applied to popular diseases, which attack

all descriptions of persons.

Panera Them. (From πας, all, and κρατεω, to conquer: so called from its virtues in overcoming all ob-

PA'NCREAS. From πας, all, and κρεας, flesh: 80 called from its fleshy consistence. A glandular viscus of the abdomen, of a long figure, compared to a dog's tongue, situated in the epigastic region under the sto-mach. It is composed of unumerable small glands, the excretory ducts of which unite and form one duct, called the pancreatic duct, which perforates the duodenum with the ductus communis choledochus, and conveys a fluid, in its nature similar to saliva, into the intestines. The panereatic artery is a branch of the splenic. The veris evacuate themselves into the splenic vein. Its nerves are from the par vagum and great intercestat. The use of the pancreas is to secrete the pancreatic juice, which is to be mixed with the chyle in the dusdenam. The quantity of the fluid secreted is uncertain; but it must be very considerable, if we compare it with the weight of the saliva, the pancreas being three times larger, and seated in a warmer place. the pressure of the incumbent viscera in the full abdomen. Its great utility appears from its constancy, being found in almost all animals; nor is this refuted by the few experiments in which a part of it was cut out the few experiments in which a part of it was cut out from a robust animal, without occasioning death; be-cause the whole pancreas cannot be removed without the disadismum: for even a part of the lungs may be cut out without producing death, but they are not, therefore, useless. It seems principally to dilute the viscil device bile, to mitigate its actimony, and to mix it with the food. Hence, it is poured into a place re-mote from the duct from the liver, as often as there is no gall bindider. Like the rest of the intestinal hu-mours it dilutes and resolves the mass of aliments, and performs every other office of the saliva. performs every other office of the saliva.

PANCREATIC: (Pancreations: from

from pancreas, the name of a viscus.) Of or belonging to the pan-

Pancreatic duct. See Ductus pancreaticus.

Pancreatic tales. See Pancreas patreations.
Pancreatic juice. See Pancreas.
Pancreas results and kppvn, a fountain.)
A name of the pancreas from its great secretion.
Panalit Than. A whitlow.

PANDEMIC. (Pandemicus; from  $\pi a \nu$ , all, and  $\delta \eta \mu o \nu$ , the people.) A disease is so termed which attacks all or a creat many persons in the same place and at the same time. A pandemic disease is one which is

very general.
PANDICULA'TIO. (From pandiculo, to gape and

FANDUCULA 110: or a resiless stretching or gaping, such as accompanies the cold fit of an ague, PANDURIFORMIS. Fiddle-shaped; applied to a leat, which is obiong, broad at the two extremities, and contracted in the middle, as in the fiddle dock, Rumez

PANICULA. A panicle, A species of compound

inflorescence which bears the flowers in a sort of loose 1 the white poppy, from which opium is obtained. Linsubdivided, bunch or cluster, without any order, appearing like a branched spike. The flowers of the Esculus hippo-castanum, Rhus cotinus, Cippsophulla paniculata, and Syringa vulgaris, are good examples of a panicle; but this species of inflorescence occurs most in grasses, as in *Poa aquatica*.

1. When the stalks are distant, lax, or spreading. it is called Panicula patula; as in Campanula patula. 2. Panicula coartota, is a dense or crowded one, ob-

2. Panicita content, is a conse of crowded one, observed in Campanula rapunculus.
3. P. dicholoma, forked; as in Linum flavum.
4. P. brachiata, crossing each other in pairs, as in Salvia paniculata.

5. P. divaricata, a more spreading one than the parallous; as in the Pnenanthes muralis.

thlous; as in the Phenomers maranes.

PA'NICUM. (A panieules, from its many panieles; the spike consisting of innumerable thick seeds, disposed in many panieles.) The name of a genus ci plants in the Linnean system. Class, Triandria; Order, Digynia.

Process was instituted. The systematic name of the

Panicum ITALICUM. The systematic name of the plant which affords the Indian millet seed, which is much esteemed in Italy, being a constant incredient in soups, and made into a variety of forms for the

PANICUM MILIACEUM. The systematic name of the plant which affords the millet-seed. They are esteemed as a nutritious article of diet, and are often made into puddings in this country.

PANIS Bread. See Bread.

PANIS CUCUL. See Oxalis acctosella.

PANIS FOREINGS. A species of cyclamen.

PANNI CULUS. (From pannis, cloth.) piece of fine cloth.

The cellular and carnous membranes are so called from their resemblance to a piece of fine cloth.

Panno'ntea. (From pannus, a rag: so called be-cause its stalk is divided into many uneven points like the end of a piece of rag ) Hawk weed, or Hy PA'NNUS. (From πενω, to labour.)
1. A piece of cloth.
2. A tent fee

A tent for a wound.

3. A speck in the eye, resembling a bit of rag.

An irregular mark upon the skin.

PANO CTIA. A bubb in the groin
PANOPHO BIA. (From πan, all, and ψabaς, fear.)
Pantophobra. That kind of melancholy which is principally characterized by groundless fears.

PANSY. See Viola tricolor.
PANTAGO'GA. (From πας, all, and αγω, to drive out.) Medicines which expel all morbid humours.

Panto Lmius. (From πας, all, and τολμαω, to dare so named from its general uses.) A medicine described by Ægineta,

PANTOPHO'BIA. See Panophobia.

PA'NUS. (From πενω, to work.) 1. A weaver's roll

2. A soft tumour, like a weaver's roll.

PAPA'VER. (Papaver, eris. n.; from pappa, pap:
so called because nurses used to mix this plant in children's food to relieve the colic and make them sleep.) 1. The name of a genus of plants in the Linnæan stem. Class, Polyandria; Order, Monogynia. poppy.
2. The pharmacopæial name of the white poppy.

See Papaver sommiferum.

PAPAVER BRRATICUM. See Papaver rhaas.
PAPAVER NIGRUM. The black poppy. This is merely a variety of the white poppy, producing black seeds.

See Papaver somniferum.
PAPAVER RHEAS. The systematic and pharmaco-Detail name of the red corn poppy. Paparer erratreum. Paparer—capsulis glabris globosis, caule-pilace multiflor;—falits pennatyfids increased illinaeus. The heads of this species, like those of the somniferum, contain a milky juice of a narcotic quality; from which an extract is prepared, that has been successfully employed as a sedative. The flowers have somewhat of the smell of opium, and a mucilaginous taste, accompanied with a slight degree of bitterness. A syrup of these flowers is directed in the London Pharmacopæia, which has been thought useful as an anoand pectoral, and is prescribed in coughs and catarrhal affections. atarrhal affections. See Syrupus rhwados.

PAPAVER SOMNIFERUM. The systematic name of

the white poppy, from the plant Papaver -calgerbus, cap nagus describes the plant Papaver -calgerbus, cap nails describes the point apparer caugetins, cap suitaging glabres, felies amplexicalibus inesses. This drug is also called option thebareum, from being an crently prepared chiefly at Thebes. Option and manus Dec, from its extensive medical virtues, &c. The Ara-Destroin its extensive mentical virtues, &c. The Arabaus called it affice and aftern. It is the concreted milky puce of the causale or head of the poppy. It is brought from Turkey, Egypt, the East Indies, and other parts of Asia, where poppies are cultivated for this use in fields, as corn among us. The manner in which it is collected has been described long ago by Kampier, and others; but the most circumstantial deka index, and others; but the house chemister at tail of the culture of the poppy, and the method of procuring the option, is that given by Kerr, as practised in the province of Bahar. He says, "The field being well prepared by the plough and harrow, and reduced to an exact level superficies, it is then divided into quadrangular areas of seven feet long, and five feet in breadth, leaving two feet of interval, which is taised five or six inches, and excavated into an aque-duct for conveying water to every area, for which purduct for conveying water to every area. The peace they have a well in every cultivated field. The peace they have a well in every cultivated field. The plants seeds are sown in October or November. are allowed to grow six or eight inches distant from each other, and are plentifully supplied with water; when the young plants are six or eight inches high, they are watered more sparingly. But the cultivator spreads all over the areas a nutriment compost of ashes, human excrements, cow dung, and a large portion of nitrous earths, scraped from the highways and old mud walls. When the plants are nigh flowering, they are watered profusely, to increase the jure. When the capsules are half grown, no more water is given, and they begin to collect the opium. At sunset they make two longitudinal double incisions upon each half ripe capsule, passing from below upwards, and taking care not to penetrate the internal cavity of the capsule. The incisions are repeated every evening until each capsule has received six or eight wounds then are they allowed to ripen their seeds. capsules afford little or no juice. If the wound was made in the heat of the day, a cicatrix would be too soon formed. The night dews, by their moisture, fa your the ex-tillation of the juice. Early in the morn ing, old women, boys, and girls, collect the juice by scraping it off the wounds with a small iron scoop, and deposite the whole in an earthen pot, where it is work ed by the hand in the open sunshine, until it becomes of a considerable spissitude. It is then formed into cakes of a globular shape, and about four pounds in weight, and laid into little earthen basins to be fur-ther exsiccated. These cakes are covered over with the poppy or tobacco leaves, and dried until they are fit for sale. Opium is frequently adulterated with cow dung, the extract of the poppy plant procured by boiling, and various other substances which they keep in secrecy." This process, however, is now but rarely This piecess, however, is now but rarely practised, the consumption of this drug being too great to be supplied by that method of collection.

The best sort of the officinal opium is the expressed

juice of the heads, or of the heads and the upper part of the stalks inspissated by a gentle heat. This was formerly called meconium, in distinction from the true

opium, which issues spontaneously.

The inferior sorts (for there are considerable differences in the quality of this drug,) are said to be prepared by boiling the plant in water, and evaporating the strained decoction; but as no kind of our opium will totally dissolve in water, the juice is most probably extracted by expression. Newman was informed by some Turks at Genoa and Leghorn, that in some places the heads, stalks, and leaves are committed to the press together, and that this juice inspissated affords a year-good only

fords a very good opium.

On this head Dr. Lewis remarks, that the point has yet been fully determined. It is commonly supnot yet been hilly determined. It is commonly sup-posed, that whatever preparations the Turks may make from the poppy for their own use, the opium brought to us is really the milky juice collected from incisions made in the heads, as described by Kempfer. It is certain that an extract made by boiling the heads, or the heads and stalks in water, is much weaker than opium; but it appears also, that the pure milky tears

opium; but it appears also, that the parameter are considerably stronger.

The principles separable from opium are, a resin, gum, besides a minute portion of saline matter, and

Four ounces of opium, treated with alkohol, yielded three ounces and four scruples of resinous extract; five drachms and a scruple of insoluble impurities remaining. On taking four ounces more, and appropriate at first, Newman obtained two ounces five drachms at first, Newman obtained two ounces five drachms and one scruple of gummy extract; the insoluble part amounting here to seven drachins and a scruple. In distillation, alkohol brought over little or nothing; but the distilled water was considerably impregnated with the peculiar ill smell of opium.

From this analysis may be estimated the effects of different solvents upon it. Alkohol and proof spirit dissolving its resin, afford tinctures possessing all its virtues. Water dissolves its gummy part, which is much less active; but a part of the resin is at the same time taken up by the medium of the gum. Wines also afford solutions possessing the virtues of opium. Vinegar dissolves its active matter, but greatly impairs its

A new vegetable alkali, to which the name of mor phia is given, has also been extracted from opium. is in this alkali that the narcotic principle resides. was first obtained pure by Serturner, in the year 1817 Two somewhat different processes for procuring it have been given by Robiquet and Choulant. According to the former, a concentrated infusion of opium is to be boiled with a small quantity of common magnesia for a quarter of an hour. A considerable quantity of a grayish deposite talls. This is to be washed on a with cold water; and, when dry, acted on by weak alkohol for some time, at a temperature beneath debulition. In this way, very little morphia, but a great quantity of colouring matter, is separated. The matter is then to be drained on a filter, washed with a little cold alkohol, and afterward boiled with a large quantity of highly rectified alkohol. This hould being filtered the second of the second alkohol. tered while hot, on cooling, it deposites the morphia in crystals, and very little coloured. The solution in alkohol, and crystallization being repeated two or three times, colourless morphia is obtained.

The theory of this process as the following: Opium contains a meconiate of morphia. The magnesia combines with the mcconic acid, and the morphia is dis-

Choulant directs us to concentrate a dilute watery infusion of opium, and leave it at rest till it sponta neously let fall its sulphate of lime in minute crystals. Evaporate to d. ness; dissolve in a little water, and throw down any remaining lime and sulphure acid, by the cautious addition, first of oxalate of ammonia, and then of murate of barytes. Ditute the liquid with a large body of water, and add caustic ammonia to it as long as any precipitate fails. Dissolve this in vinegar, and throw it down again with ammonia. Digest on the precipitate about twice its weight of sulphuric ether, and throw the whole upon a filter. The dry powder is to be digested three times in caustic ammonia, and as often in cold alkohol. The remaining powder being dissolved in twelve ounces of boiling alkohol, and the filtered hot solution being set aside 18 hours, deposites colourless transparent crystals, consisting of double pyramids. By concentrating the su-pernatant alkoholic solution, more crystals may be obtained

Dr. Thomson directs us to pour caustic ammonia into a strong infusion of opium, and to separate the brownish-white precipitate by the filter; to evaporate the infusion to about one-sixth of its volume, and mix the concentrated liquid with more ammonia. A new de-posite of impure morphia is obtained. Let the whole posite of impure morphia is obtained. Let the winds of the deposites be collected on the filter, and washed with cold water. When well dreined, pour a little, alkohol on it, and let the alkoholic liquid pass through the filter. It will carry off a good deal of the colouring matter, and very little of the morphia. Dissolve the impure morphia thus obtained, in acetic acid, and mix impure morphia thus columned, in accure acid, and mit the solution which has a very deep brown colour, with a sufficient quantity of ivory-black. This mixture is to be frequently agitated for 24 hours, and then thrown on the filter. The liquid passes through quite colour-less. If ammonia he now dropped into it, pure mor-phia falls in the state of a white powder. If we disphia falls in the state of a white powder. If we dissolve this precipitate in alkohol, and evaporate that liquid slowly we obtain the morphia in pretty regular !

water and earth, which are intimately combined to-gether, insomuch that all the three dissolve almost equally in water and in spirit.

cqually in water and in spirit.

crystals. It is perfectly white, has a pearly lustre, is destitute of smell, but has an intensely bitter taste; and the shape of the crystals in all my trials was a crystais. It is perfectly white, has a pearty tibure, as destitute of smell, but has an intensely bitter taste; and the shape of the crystals in all my trials was a four-sided rectangular prism."—Annals of Phil, June, 1820. On the above process, it should be observed, that the acetic solution must contain a good deal of phosphate of lime, derived from the ivory-black; and that therefore those who have used that precipitate for morphia in medicine, have been disappointed. subsequent solution in alkohol, however, and crystallization, render it pure.

Choulant says, it crystallizes in double four-sided pyramids, whose bases are squares or rectangles; sometimes in prisms with trapezoidal bases.

It dissolves in 82 times its weight of boiling water: and the solution on cooling deposites regular, colourless, transparent crystals. It is soluble in 36 times its weight of boiling alkohol, and in 42 times its weight of cold alkohol, of 0.92. It dissolves in eight times its weight of sulphuric wither. All these solutions change the in-fusion of brazil-wood to violet, and the tincture of rhubarb to brown. The saturated alkoholic and withereous solutions, when rubbed on the skin, leave a red

Sulphate of morphia crystallizes in prisms, which dissolve in twice their weight of distilled water.

Nitrate of morphia yields needle-form crystals in stars, which are soluble in 13 times their weight of distilled water.

Murrate of morphia is in feather shaped crystals and It is soluble in 101 times its weight of distilneedles.

The acetate crystallizes in needles, the tartrate in prisins, and the carbonate in short prisms.

prisms, and the carbonate in short prisms.

Morphia acts with great energy on the animal economy. A grain and a half taken at three different times, produced such violent symptoms upon three young men of 17 years of age, that Sertimer was alarmed lest the consequences should have proved

Morphia, according to its discoverer, melts in a genthe heat; and in that state has very much the appearance of melted sulphur. On cooling, it again crystallizes. It burns easily; and, when heated in close vessels, leaves a solid resinous black matter, having a peculiar smell.

The use of this celebrated medicine, though not unknown to Hippocrates, can be clearly traced to Diagosnown to Improcrates, can be clearly traced to Diago-ras, who was nearly his cotemporary; and its impor-tance has ever since been gradually advanced by suc-ceeding physicians of different nations. Its extensive practical utility, however, has not been long well un-derstood; and in this country perhaps may be dated from the time of Sydenham. Opium is the chief nar-cotic now employed; it acts directly upon the nervous ground distributes the concluding unitability and mapower, diminishing the sensibility, irritability, and mobility of the system; and, according to Cullen, in a certain manner suspending the motion of the nervous fluid to and from the brain, and thereby inducing sleep, one of its principal effects. From this sedative power of opium, by which it allays pain, lnordinate action, and restlessness, it naturally follows that it may be emand restressness, it naturally nonws mart many be employed with advantage in a great variety of diseases. Indeed, there is scarcely any disorder in which, under some circumstances, its use is not found proper; and though in many cases it fails of producing sleep, yet, if taken in a full dose, it occasions a pleasant tranquillity of mind, and a drowsiness which approaches to sleep, and which always refreshes the patient. Besides the sedative power of opium, it is known to act more or less as a stimulant, exciting the motion of the blood. By a certain conjoined effort of this sedative and stimulant effect, opium has been thought to produce intoxication, a quality for which it is much used in eastern countries

The principal indications which opium is capable of fulfilling are, supporting the actions of the system, allaying pain and irritation, relieving spasmodic action, inducing sleep, and checking morbidly increased secre tions. It is differently administered, as it is designed to fulfil one or other of these indications.

Where opium is given as a stimulus, it ought to be administered in small doses, frequently repeated, and slowly increased, as by this mode the excitement it produces is best kept up. But where the design is to mitigate pain or irritation, or the symptoms arising from these, it ought to be given in a full dose, and at

pure inflammatory affection, at least until evacuations have been used, or unless means are employed to determine it to the surface, and produce a diapho

In continued fevers, not of the pure inflammatory kind, opium is administered sometimes as a general stimulus, and at other times to allay urntation. great practical rule in such cases is, that it ought to be given in such quantities only, that the pulse becomes slower and fuller from its operation. Its explicit of the improper where local inflammation, especially of the

improper where areas now had brain, or of its membranes, exists.

An intermittent fever, an opnate renders the paroxysms inilder, and facilitates the cure. Dr. Cullen recommends the union of opium with bark, which enables the stomach to bear the latter in larger doses,

and adds considerably to its efficacy.

In the proflucia and choiera, opium is employed to lessen the discharge, and is frequently the principal remedy in effecting the cure. In passive hamorrhagy, it is useful by its stimulant power. In retrocedent gout it is used as a powerful stimulant. In convolving an apasmodic diseases it is advantageously administered, with the view of reflecting symp-

toms, or even of effecting a cure; and in several of them it requires to be given to a very great extent.

In lues venerea it promotes the action of mercury, and relieves the irritation arising either from that re-

medy, or the disease.

In the year 1779, opium was introduced into practice as a specific against the lues venerea. U was employed in several of the military hospitals, where it acquired the reputation of a most efficacious remedy; and Dr. Michaelis, physician of the Hessian forces, published an account of a great number of successing experiments made with it, in the first volume of the Medical Communications, in the year 1784. Opium was afterward given as an anti-veneral remedy in come foreign hospitals. Many trials were also made of its virtues in several of the London hospitals, and in the Royal Infirmary at Edinburgh. Very favourable reports of its efficacy in removing venereal complaints were published by different practitioners; but, at the same time, so many deductions were to be made, and so many exceptions were to be admitted, that it rego many exceptions were to be admitted, that it required fittle sagacity to discover, that most of the advo-cates for this medicine reposed but a stender and fluctuating confidence in its anti-venereal powers. Mr. Pearson made several experiments on the virtues of opium in lues venerea, at the Lock Hospital, in the years 1784 and 1785; and published a marative of its effects, in the second volume of the Medical Communications. "The result of my experiments," says he, "was very unitavornable to the credit of this new re-" was very unfavourable to the credit of this new remedy; and I believe that no surgeon in this country relies on opium as a specific against the venereal virus.

I have been long accustomed to administer opium with great freedom during the mercurial course; and the experience of nearly twenty years has taught me, that, when it is combined with mercury, the proper efficacy of the latter is not in any measure increased; that it would not be safe to rely upon a smaller quantity of the mineral specific, nor to contract the mercurial course within a shorter limit than where no opium has been employed. This representation will not, I pre-sume, admit of controversy; yet we frequently hear people expressing themselves upon this head, as if opium manifested some peculiar qualities in venereal complaints, of a distinct nature from its well-known narcotic properties, and thus afforded an important aid to mercury in the removal of lues venerea. it may not be useful to disentangle this subject from the perplexity in which such indefinite language necesthe perplexity in which such indentite ranguage heressarily involves it. Opium, when given in conjunction with mercury, by diminishing the sensibility of the stomach and bowels, prevents many of those inconveniences which this mineral is apt to excite in the prime viæ; and thus its admission into the general system is facilitated. Mercury will likewise often produced the statement of the produced in the statement of the produced in the statement of the statemen duce a morbid irritability, accompanied with restlessness and insomnolescence; and it sometimes renders venereal sores painful, and disposed to spread. accidental evils, not necessarily connected with the seems impossible to be made to agree in any dose or

distant intervals, by which the state of diminished power and sensibility is most completely induced.

One other general rule, with respect to the administration of opium, is, that it ought not to be given in any pure inflammatory affection, at least unit exacuations have been used, or unless means are employed to determine it to the surfece and in the context of the communicates no additional conferring that sort of relief, communicates no addition contenting that sort or term, considerates no addi-tional virtues to mercury, and that, in readity, it as-sists the constitution of the patient, not the operation of the medicine with which it is combined. The salutary effects of mercury as an antidote may be diminished or lest by the supervention of vomiting, dysentery, &c. Opium will often correct these morbid appenances, and so will spices, wine, and appropriate diet, &c. , yet it would be a strange use of words to urge, wherever these articles of food were beneficial urge, wherever these afficies of food were beneficial to a venereal patient, that they concurred in augmenting the medicinal virtues of mercury. It may be supposed that the majority of medical men would understand by the terms, "to assist a medicine in curing a contagons disease," that the drug conjoined with the specific actually increased its medicinal efficacy; whereas, 19 the fastances before us, it is the human body only which has been aided to resist the operation of certain noxious powers, which would funder a per-severance in the antidote projudicial or impossible. The soothing qualities of this admirable medicine can scarcely be estimated too highly. Yet we must be ware of ascribing effects to them which have no existence; since a confidence in the anti-venereal virtue of opium would be a source of greater mischief than its most valuable properties would be able to compensate.

Opium is employed with laxatives in colic, and often prevents ileus and inflammation, by relieving the spasin.

It is given also to promote healthy suppuration, and is a principal remedy in arresting the progress of gan-

The sudorific property of opum is justly considered of considerable power, more especially in combination with specerum or antimony. The compound powder of ipecacuan, consisting of one part of ipecacuan, one part of opium, and eight of sulphate of pousse, is a very powerful sudome, given in a dose from 15 to 25 grams. The combination of opium with antimony is generally made by adding 30 to 40 dreps of antinonial wine to 25 or 30 drops of fracture of opium, and forming them into a draught.

Opnum, taken into the stomach in immoderate doses, proves a narcotic poison, producing vertigo, tremors, convulsions, delirium, stupor, stertor, and, finally, ratal

apoplexy.

Where opium has been taken so as to produce these where option has been tuten so as to produce ingredangenous consequences, the contents of the stormed are first to be exacutated by a powerful emetic, as a so lation of the sulphase of zine. Large daughts of vinegar, or any of the native vegetable ands, are then to be swallowed. Moderate dosas of brandy, or a strong infusion of coffee, have also been found useful.

Respecting the external application of opium, authors Respecting the external application of equal, having seem not sufficiently agreed. Some allege, that when applied to the skin it allays path and spesm, procures sleep, and produces all the salutary or dangerous effects which result from its internal use; while others say, that thus applied it has little or no effect whatever. It has also been asserted, that when mixed with caustic it diminishes the pain which would otherwise ensue; and if this be true, it is probably by decreasing the sensibility of the part.

all the effect of opium takes into the stomach; but to answer this purpose, double the quantity is to be employed. Applied to the naked nerves of animals, it produces immediate torpor and loss of power in all the

muscles with which the nerves communicate.

The requisite dose of opium varies in different persons and in different states of the same person. A quarter of a grain will in one adult produce effects which ten times the quantity will not do in another and a dose that might prove farat in cholera or colic, would not be perceptible in many cases of tetams, or The lowest tatal dose to those unaccustomed manna. to take it, seems to be about four grains; but a dan-gerous dose is so apt to produce vomiting, that it has seldon time to occasion death. When given in too small a dose, it often produces disturbed sleep, and other disagreeable consequences; and in some cases it

Often, on the other hand, from a small doss' cum: splenicum, panoreuticum; mesentericum; exsleep and allexiation of pain will be produced testinal; manutale, complication. a pair, A pair,
PAR Crecium, 1, a pair, A pair,
Par crecium, So Casserius calls the Crico crysound sleep and alleviation of pain will be produced while a larger one occasions vertigo and delimin. Some prefer the repetition of small doses, others the giving a full dose at once; its operation is supposed to last about eight hours; this, however, must depend upon circumstances. The usual dose is one grain. The officinal preparations of this drug are numerous. The following are among the principal: (mean puri ficatum, pilulusaponis cum opio, puleis cornu usti cum opio, tinctura opii, tinctura camphora campositu, and confectio opur it is also an ingredient in the pulvis pecacuanka compositus, clectuaerum japonicum pulres creta compositus cum opio, &c. The capsules of the poppy are also directed for medicinal use in the form of fomentation; and in the syrupus paparens, austof fomemation; and in the surepus proporeries, a useful anodyne, which often succeeds in procuring sleep where option tails; it is, however, more especially adapted to children. The seeds of this species of poppy contain a bland oil, and in many places are eaten as food; as a medicine, they have been usually given in the form of emulsion in catarrhs, strangu-

PAP'AW. The fruit of a species of carica. See

Carica papaya.
PAPILIONACEUS. Panilionaceous A term applied to the corolla of plants when they are irregular and spreading, and thus resemble somewhat the butter-The various petals which compose such a flower are distinguished by appropriate names: verillam, the are distinguished by appropriate frames: verifician, the standard, the large one at the back; dac, the two side petals; and carina, the heel, consisting of two petals united or separate, embracing the internal organs. PAPI LLA. (From pappus, down. See Ulla.)

1. The nipple of the breast. See Nipple.

2. The fine terminations of nerves, &c. as the nervous cavilla of the longue, skin, &c.

vous papillæ of the tongue, skin, &cc.

PAPILLE MEDULLARES. Small eminences on the medulla oblongata.

PAPILLA'RIS HERBA. See Lapsana.
PAPILLOSUS. Papillose. Applied to stalks connected with soft tubercles; as the ice plant, Mesembry.

enthemum crystellinum.

PAPPOSUS. Pappose: furnished with a pappus or seed down; as the seeds of the Leontodon taraxace

PAPPUS. 1. The hair on the middle of the chin. See Capillus.

2. The seed down. This is restrained by Gartuer to the chaffy, feathery, or bristly crown of many seeds that have no pericaipium, and which originates in a partial calyx crowning the summits of each of these seeds, and remaining after the flower is tallen, as in the seeds of dandelion, goats-beard.

The same term is used by the cenerality of botanists for the feathery crown of seeds furnished with a cap tule, as well as for a similar appendage to the base or sides of any seeds, neither of which can originate from a calyx. For the former of these, Gerther adopts the term coma; for the latter, pubes; which last also serves for any downiness or wool about the testa of a seed; as in the cotton plant, and Blandfordra no

The varieties of the pappus are

1. P. fessilis, on the appear of the seed, without any footstalk: as in Asclepus syriacs, Nerium oleander, and Epilobium.

2. P. stipitatus, elevated on a footstalk; as in Le-

ontodon taraxacum.

3. P. plumosus, when the radii of the footstalked pappus are hairy laterally; as in Tragopogon pra-

The lana pappiformis of authors is not a pappus, but hairs which only surround the seed; as in Eryo-

phorum.

PAPULA. (Papuln, æ. f.; diminutive of pappa, a dug or nipple. See Ulla:) A very small and acuminated elevation of the cuticle, with an inflamed base, not containing a fluid, nor tending to suppuration. The duration of papula is uncertain, but they terminate for the most part in scurt.

PARARYSMA. (Papulnyma, atis, p.; from magar.

PARABYSMA. (Parabysma, atis. n.; from wapa-fow, congestion, infarction, coacervation.) Dr. Good has applied this term to a genus of diseases, (comprehended by Cullen and others under that of physconia,)
Class. Caliana: Order. Salanchnica. Visceral tur-Class, Caliaca; Order, Splanchnica. Visceral tur-gescence. It has seven species. Parabysma hepati-

tenord musile.

PAR VAGUM. The eighth pan of nerves. arise from the corpora oliviora of the medulla ob longata, and proceed into the neck, thorax, and abilo-men. In the neck the par vagum gives off two branches, the lingual and superior laryngeal; and, in the thorax, four branches, the recurrent laryngeal, the candiac, the pulmonary, and the assophageal plexusts. At length the trunks of the nearly vagi, adjacent to the mediastimum, run into the stomach, and there form the stomachic plexus, which branches to the abdomi-

FARACELSUS, a native of Switzerland, born about the year 1103. His father is said to have been a practitioner in medicine, and inspired non with a taste for chamistry. He very early commenced a sort of rambing life, assuming the pompous names of Phillipus, Jureolus, Theophra tus, Paracelsus, Bombar tus in Hole meem; and after visiting the schools of France, Italy, and Germans, he sought for miorination during several years among quacks of every description, pretending that he had tound the principles of the medical act altogether erroneous. He appears to have possessed the talent of imposing upon mankind in an eminent degree ; for even the learned Draskind to an enument degree: for even the learned Drag-mus is said to have consulted hum. It cannot be a matter of surprise, that, by the bold use of active ne-dicines, especially mercury, antmoony, and optum, he should have effected some remarkable cares: these cases were displayed with the usual vaggention, with etimes, in which the famed, or did mischiet, passed amnoticed. His reputation, however, became so great, that the magistrates of Basic engaged him, at a large salary, to fill the chair of medicine in their university. Accordingly, in 1527, he began delivering lectures, sometimes in barbarous Latin, oftener in German; but, though he gained at first some enthusiastic adherents, the ridiculous vanity which he displayed, de spising every other authority in medicine, whether ancient or modern, soon created such disgust, that he was left without an audience. A quarrel with the magistrates, on account of a decision against las demand of fees, which was deemed exorbitant, decided him in the following year to leave the place. He sub-sequently resided in Abace, and other parts of Ger-man, leading a he of externe intemperance, in the lowest company, vel occasional instances of extraor dinacy success to his practice still preserved himsome during streams to his practice study in cryot functions requirement, notwithstanding numerous failures. But the nost striking proof of the folly of his pretensions was given in his own person; for, after aumouncing that he was in pessession of an elasir which would protong human life to an indemnite period, he died at Saltzbarg, in 1500, of a fewer. It must be acknow bedged, however, dua Paraceisus was of material ser vice to medicine, by showing that many active mediemes neight be safely employed; and particularly as having been one of the first to exhibit mercury in the cure of syphilis, which had been in vain aitempted by the Galement remedies then in use. He published butle during his life, but a great number of posthumous neatises appeared under his name, which are too replete with absurdities to deserve enumeration. PARACENTESIS. (From wagaker Tew, to pierce

TAR WEATENES. (From παρακετειο, to pierce through.) The operation of tapping to evacuate the water in ascites, drops of the ovarium, &c. Paracma's πτοοs. (From παρακμαζω, to decline.) Paracma. The declension of any distemper; also, according to Galen, that part of life where a person is said to grow old, and which he reckons from 35 to 49, when he is said to be add. when he is said to be old.

PARA COE. From mapa, diminutive, and akove, to hear.) Dulness of hearing.

PARACOLIETICA. From maoakollaopai, to glue together) Agglutinants, or substances which unite

parts preternaturally separated.

Para'cope. (From παρακοπτο, to be delirious.) In Hippocrates, it is a slight delirium.

Paractusiss. (From παρακοσιω, to deprecate.) A slight disarrangement of the faculties, where the parameter is received by the parameter of the faculties. PARACUSIS. (From zapa, wrong, and akouw, to

hear.) Deprayed hearing. Deafness. A genus of

disease in the class Locales, and order Dysasthesia, by the pressure made on the nerves by uxations, fracof Sullen. It is occasioned by any thing that proves three, wounds, or other external injuries. The longinjurious to the ear a local state of the state of t injurious to the ear, as loud noises from the firing of carnon, violent colds, particularly affecting the head, infammation or ulceration of the membrane, hard wax, or other substances interrupting sounds, too great a dryness, or too much moisture in the parts; or by atony, debility, or paralysis of the auditory nerves. In some instances it ensures in consequence of pre-ceing diseases, such as fever, syphilis, &c. and in others it depends upon an original defect in the structure or formation of the ear. In the last instance, the erson is usually not only deaf, but likewise dumb There are two species

1. Paracusis imperfecta; Surditas. When existing

sounds are not heard as usual.

2 Paracusis imaginaria, called also Sussarus; Syrugmus; Syringmas; Tinnitus carium. When lina ginary sounds are heard, not from without, but excited within the ear

PARACYESIS. (From παρα, maie; and κυησις, graveintas.) The name (1 a zerus of diseases in Good's Nosology; Ciass, Genetica; Order, Carpotica. Morbid pregnancy. It has time species, viz. Para-

cyesis printativa, aterma, abritus.

PARACYNA NCHE. (From παρα, κυων, a dog, and αλχω, to strangle.) A species of quinsy. See Cy-

PARADISUS. (Hebrew.) A pungent seed re combling the cardamon, named from its virtues. See

Paradist Grana. See Amomum.
Paradist Grana. See Amomum.
Paradica.) The name of a genus of diseases in Good's Nosology: Class, Neurotica; Order, Æsthetica. Morbid taste. It comprehends three species, viz. Parageutica control of the second s

sis ocuto, obtaso, e pers.

Paraglo sea. (From πuoa, and γλωσσα, the tongue.) A prolapsus of the tongue, a swelled tongue.

Paraglo sea. (From πμοσμω, to adduce.) This term signifies that fitness of the bones to one another, which is discernable in their articulation; and bones

which are thereby easier of reduction, when dislocated, are by Hippocrates called magazing origin.

PARALA MESIS. (From maoadapaw, to shine a little.)

Some writers use this word to express a cicatrix in the

Some white is this cornea of the eye.

Paralla (sow) (From παραλληπτο, to change. Parallaris. The transmutation of a solid part from its proper place, as where one part of a broken beine here.

proper pairs as where the parameter over another.

PARALLANIS. See Parellogma.

PARALLANIS. See Parellogma.

PARALLANIS. A sort of souri or leprosy, affecting only the pains of the hands, and curating down them in parallel lines.

PARALLOGIA. (From προσλέγω, to talk absurdly.)

A delatum in which the patient talks wildly.

A diagram in which the parent mass visiting.

Parkado Pinta. (From zong, near, and nopin, the first vertebra of the back.) The lower and lateral part of the neck near the vertebre, according to some anatomical writers, as Keil, &c.

mical writers, as Keil, &c.

PARA/LVSIS. (From magalvo, to loose, or weaken.)

Catalysis: Attoritis morbus: Tremor. The palsy. A genus of disease in the Class Neuroses, and Order Comato, of Cullen, known by a loss or diminution of the power of voluntary motion, affecting certain parts of the body, often accompanied with drowsiness. In some instances, the disease is confined to a

particular part; but it more usually happens that one entire side of the body from the head downwards is affected. The species are:

Paralysis partialis, partial, or palsy of some particular muscle. 2. Paralysis hemiplegica, palsy of one side longitu-

dinally. 3. Paralysis paraplegica, palsy of one half of the body, taken transversely, as both legs and thighs.

4. Paralysis venenata, from the sedative effects of

poisons. Paralysis is also symptomatic of several dis-

eases, as worms, scrofula, syphilis, &c.

eases, as worms, scrottild, syphilis, &c.

It may arise in consequence of an attack of apoplexy. It may likewise be occasioned by any thing that prevents the flow of the nervous power from the brain into the organs of motion; hence tumours, overdistention, and effusion, often give rise to it. It may also be occasioned by translations of morbid matter to the head by the new translations of morbid matter to the head, by the suppression of usual evacuations, and

tures, wounds, or other external injuries. The long-continued application of sedatives will likewise produce palsy, as we find those, whose occupations sub-ject them to the constant handling of white lead, and those who are much exposed to the poisonous fumes of metals or minerals, are very apt to be attacked with it. Whatever tends to relax and enervate the system, may likewise prove an occasional cause of this disease

Palsy usually comes on with a sudden and immediate loss of the motion and sensibility of the parts; but, in a few instances, it is preceded by a numbress, coldness, and paleness, and sometimes by slight convulsive twitches. When the head is much affected, the eye and mouth are drawn on one side, the memory and eye and mouth are fixed, and the speech is indis-judgment are much impaired, and the speech is indis-tinct and mecherent. If the disease affects the extre-mities, and has been of long duration, it not only pro-duces a loss of motion and sensibility, but likewise a considerable flaccidity and wasting away in the muscles of the parts affected

When palsy attacks any vital part, such as the brain. heart, or lungs, it soon terminates tatally. arises as a consequence of apoplexy, if generally proves very driheult to cure. Paralytic affections of the lower extremities ensuing from any injury done to the spinal marrow, by blows and other accidents, usually prove incurable. Palsy, although a dangerous disease in meurable. every instance, particularly at an advanced period of life, is sometimes removed by the occurrence of a

diarrhesa or fever.

The morbid appearances to be observed on dissections in palsy are pretty similar to those which are to tions in paisy are pretty similar to mose which are to be met with in apoplexy; hence collections of blood, and of serous fluids, are often found effused on the brain, but more frequently the latter; and in some in-stances the substance of this organ seems to have suf-ferred on alteration. In palsy, as well as in apoplexy, the collection of extravasated fluid is generally on the opposite side of the brain to that which is affected.

The general indications are, to remove, as far as possible, any compressing cause, and to rouse gradually the torpid portion of the nervous system. It will sometimes be proper, where the attack is sudden, the disease originating in the head, with great determination of blood to that part, particularly in a plethoric habit, to open the temporal artery, or jugular vein, or apply cupping glasses to the neck, and exhibit active purges, with the other means pointed out under apoplexy. But where the patient is advanced in lite, of a debititated constitution, and not too full of blood, the object should rather be to procure regular and healthy dis-charges from the bowels, obviate irritation in the brain by blisters in the neighbourhood, and procure astendy by unsers in the deginournood, and procure astendy determination to the skin by gently stimulant diaphoreties, as ammonia, guaincum, &c. in moderate doses regularly persevered in Emetres have been sometimes very useful under these circumstances, but would be dangerous where congestion in the brain existed. Certain narrotic substances have been found occasionally successful, as aconite, arnica, toxicodendron, nux vomica, and opium; but the tendency of the latter to produce fulness of the vessels of the head must greatly limit its use. Various local means of increasing the circulation, and nervous energy in the affected parts, are resorted to in this complaint, often with decided benefit. In all cases it is proper to keep up sufficient warmth in the limb, or the disease may be rendered in curable. But in addition to this, in tedious cases, formentations, the vacque but first exclusives, the vacque but first exclusives. mentations, the vapour bath, friction, electricity, and a mentations, the vapour bain, triction, electricity, one availety of stimulant, tubefacient, or even vesicatory, embrocations, liniments, and plasters, may assist materially in the recovery of the patient. In the use of some of these it should be a rule to begin near the boundary of the disease, and carry them onward, as the amendment proceeds, not only as they will be more likely to answer a good purpose, but also because there would be some risk in stimulating too powerfully an extreme part. A suitable diet, according to the habit of the patient, warm clothing, the prudent use of the bath, and other means calculated to strongthen the means calculated to strongthen the means. other means calculated to strengthen the system, must not be neglected.

PARALYSIS HERBA. (From παραλυω, to weaken: so called from its use in paralytic disorders.) The cow slip and primrose are sometimes so termed. See Primula veris, and Primula vulgaris.

PARAMENIA (From παρα, wrong, and μην, the

menses.) The name of a genus of diseases in Good's 

PARAMO'RPHIÆ. (From παρα, wrong, and μορφη, form.) The name of a class of diseases of the nutritive powers in Dr. Young's Nosology. Diseases of Structure

PARANEURISMI. (From παρα, wrong, and υευρου, a nerve.) The name given by Dr. Young to a class of diseases. Nervous diseases.

diseases.

["PARANTHINE of Hauy, or Scapolite of Jameson. This rare mineral, sometimes massive, usually appears in long prismatic crystals, having four or eight sides. The latter form, which may be called a four-sided prism, truncated on its lateral edges, is sometimes terprism, truncated of its lateral edges, is sometimes terminated by four-sided summits, whose faces are inclined to the alternate lateral phases, on which they stand, at angles of 120°. The pinnitive form is a four-sided prism, which is very easily divisible, pseudist for the diagonals or its bases, which are squares. The crystals, quality long, sometimes cylindrical or account lar, are often in groupes, composed of parallel, diverg-

ing, or intermingled prisms.

The longitudinal fracture is foliated; indeed, some crystals might be mustaken for little plates of mica, arranged in the direction of its axis. The cross fracture

is often uneven-

The Scapolite presents a considerable diversity of colour, lustic, and hardness, which appears to arise in part from a partial decomposition, perhaps the loss of

PARANG'A. (From παρα, diminutive, and νετω, to understand.) Paranoia. Alienation of mind; defect

PARAPE CHYUM. (From mapa, neur, and mygus, the That part of the arm from the elbow to the wrist. Cubic.) That partet the arm from the cobow to the wrist. PARAPHIMO'SIS. (From zone, about, and dynom, to bridle.) A disorder wherein the prepare, being retracted towards the root of the penis, cannot be returned again over the glans, but makes a sort of igniture being the corona. It is easily known, the glass-s-un covered, the skin tunneled on the corona, and above it forms a circular collar or stricture, which from the skin being unequally extended, becomes indented, and makes several rings round the part. This disease may proceed from two causes, as first from the impendence of young people, and sometimes also of grown persons, who having the end of their prepure teo straight, cannot uncover their glans without pain, and when they have done it, neglect retarning it so soon as the jought; and thus the contracted part of the prepare forms a constriction behind the glans. Soon after, the glans and penis swell, and the prepare, being consequently very much distended, is affected in the same manner; an inflammation serzes upon both, and swellings quickly appear upon the stricture formed by the prepuce, so that the whole may be liable to a gangrene, if not speedily relieved. The second thing that may produce speedily relieved. The second thing that may produce a paraphimoses, is a venereal virus. In adults, whose glaus is uncovered, there frequently arise venereal chances in the prepuce after impure cotion, which before they digest, are generally attended with inflammation, more or less considerable. This inflammation is alone sufficient to render the prepuce too straight for the size of the penis, in consequence of which a swell-

ing or inosculation may ensue like that before mening or inosculation may ensue the that before men-tioned: and this is what is termed a paraphimosis. PARAPHO'NIA. (From mana, wrong, and gaory, sound.) Alteration of the voice. A genus of disease in the Class Locales, and Order Dyseriesies, of Cullen, comprehending six species, viz.

1. Paraphana puberum. About the age of puberty

the change of voice from an acute and soft to a grave and harsh tone

Paraphonia rauca The voice house and rough from dryness of flaccid tumour of the fauces.

3. Paraphania resonants. Rough voice from obstruc-tion of the nares, with hissing sound in the nose. 4. Paraphania palatina. From the uvula wanting, or divided, and commonly attended with hare lip, the

voice rough, obscure, and disagreeable.

5. Paraphonia clangens. An acute, shrill, and weak toned voice

6. Paraphonia comatosa. A sound emitted at inspiration from relaxation of the velum palati, and of the glottis.

PARA PHORA. (From παραφέρου, to transfer.) A slight kind of delirium, or light-headedness in a fever. Some use this word for a delirium in general.

PARAPHRENE TIS. A delirium; also a paraphrenitis.

PARAPHRENI TIS. (From παρα, male, not righly), and phrenitis, inflammation of the brain: so called because its symptoms resemble those of the phrenitis, or inflammation of the brain, which it is not.) Paraphrenesis; Diaphragmatitis. An inflammation of the diaphragm. A genus of disease in the Class Pyrezra, and Order Phlegmasies, of Cullen, known by delirium, with difficulty of breathing, and pain in the region of the diaphragm, and which requires the same treatment

as inflammation of the lungs.

PARAPHRO SYNE. (From παραφή tranged in mind., The same as Mania.) (From παραφοονεω, to be es-

Transport in mind.

The same as Stanta.

Percentymicsts. See Paraphimoses.

LARAPLE GIA. (From παραπλησσω, to strike mannonously.)

Palsy of one half of the body taken transversely. A species of paralysis. See Paralysis.

Paraporte Ma. (From παρα, diminutive, and απο-

A SECREPLE MA. (From παρα, diminutive, and απο-πληξια, an apoplexy.)- A slight apoplexy. PARAPSIS. (From παρα, and ἀπτομαι, perperam tongo.) The name of a genus of diseases in Good's Nosology, Class Neurotica; Order Æsthetica. Mor-bid touch — It embraces three species, Parapsis acris.

PARARTHRE MA. (From παρα, and αρθρον, a joint.)
A slight invation. A tumour from protrusion, as in

PARARTHRE'MATA. (The plural of pararthrema) See Pararthrema.

(From παρω, and ρυθμος, number ) PARARY THMOS.

A pulse not suitable to the age of the person.

Parasceps stra. (From παρα, and σκεπαςω, to cover.) A cap or bandage to go round the whole

PARA'SCHIDE. (From παρα, and σχιζω, to cleave.) A fragment or fissure in a broken bone.

Parasita. The name of an order of plants in Lin-

neads. Fragments of a Natural Method.
PARASTRE. (Parasiteus): from ragagaros, a
parasite of hange one. An animal isso femed that
receives its non-islanent in the bodies of others, as

worms, polypes, hydatids, &c.

A plant is so called which sends its roots into other plane, can which it draws its nourishment, as the Epidendium vanilla. See Indicus. PARASTRUS. Proceedings. PARASTRUS. Proceedings.

PARASITUS. (Hapagiros, a parasite.) A parasite: applied to animals and vegetables which draw their nourishment from others of the same kingdom, living within the interior of animals, or having their roots fixed in the barks of vegetables.

The part of the neck contiguous to the cla-PARASPHAGIS. throat.)

PARA STATA (From παριζημι, to stand near.) It

Parastata. (From παριστρικ, to stand near.) It signifies any thing situated near another.

Para'stata. (From παριστρικ, to stand near.)

The Epididymis of Hippocrates. Herophilus and Galen called these the Varicosa. Parastata. to distinguish them from the Glandulæ Parastatæ, now called Prostate. Rufus Ephesius called the tubæ Fallopianæ by the name of Parastata Varicosa.

PARASTRE MMA. (From παραστρεφω, to distort, or pervert.) A perversion, or convulsive distortion of the mouth, or any part of the face.

PARASYNA NOTIE. See Paracynanche.
PARA'THENAR. (From παρα, near, and 9εναρ, the sole of the foot.) A muscle situated near the sole of the foot.

PARATHENAR MINOR. See Flexor brevis minimi

PARATTENAR MINOR. See Flexor oreols minimal digitit pedia:

PARANTHINE. See Scapolite.

PARANTHINE. See Scapolite.

PARANTHINE. See Scapolite.

PAREY, Amarose, a French surgeon, was born at Lavel, in 1509. He commenced the study of the surgical profession early in life, and practised it with great zeal both in hospitals and in the army. His reputation at length lose very high, and he was appoint—

ed surgeon in ordinary to Henry II. in 1552; which office he held also under the three succeeding kings. Charles IX, derived material assistance from his professional skill, and gave a signal proof of his gratitude for Paré, being a Huguenot, would have been included in the horrible massacre of St. Bartholomew's, had not the king sent for him on the preceding night, and or-dered him not to leave the royal chamber. After having been long esteemed as the first surgeon of his time, d beloved for his private virtues, he died in the year He was the author of some works, which were universally read, and translated into most of the languages of Europe, containing a body of surgical set-He was a map of original mind, and a real im prover of his art, especially in the treatment of gunshot wounds; adopting a lenient method, instead of the irritating and cauterizing applications previously in use. He was also a bald and successful operator and displayed on many occasions all the resources of and displayed on many occasions at the resources of an entiplineard surgeon. He app are, however, to have borrowed freely from the Italian writers and practitioners, especially in anatomy. There is also an affectation of reference to the works of the ancients in his writings, for he was by no means well versed in these, and indeed obliged to request another to translate into French some of the books of Galen, which he wished to consult

PAREC'CRISES. (From παρα, wrong, and εκκρινώ, The name of a class of diseases to secen or secrete.) The name of a class of dis in Dr. Young's Nosology.—Diseases of secretion.

n Dr. Young S. Ausonogy.—Diseases of secretion.
PAREGORIC. (Paragrarius; from Super-cogus, to
milicate, to assuage.) That which allays pain.
Paregoric electr. See Trinctura comphoracomposita.
Paret's. Hancia. That part of the face which is

That part of the face which is between the eves and chin.

PAREI'RA BRAVA. See Cissampelos.
PARENCE PH MAS. (From waga, near, and eykepalos,

PARE NET THE PROPERTY OF THE STATE OF THE PROPERTY OF THE PRO plied to the come ting medium of the substance of the vi-cera.

2. The green juicy layer of barks which lies immediately.

ately under the epiderinis of trees.

PARESIS. (Γιομ παριημι, to relax.) An imperfect palsy.

Common actynolite.

PARGASTEE. Common actynome.

PARHAUMA SME. (From ranga; wrong, and arna; blood.) The name of a class of diseases in Dr. Yonng's Nosology. Sangnine diseases.

Parie'ra brava. (A Spanish word.) See Cis-

PARIETALD OS. (Parietalis; from paries, a wall; hecause they defend the brain like walls.) Ossa corticis. Ossa saneptis. Ossa nervealsa vol bregmetis. The pasietal bones are two arched and some what quadraugular bones, situated one on each side of the superior part of the essentian. Each of these tones forms an irregular sounce. They are thicker above than below: but are source that irreduct, and at the same time more equal and smooth than the other bones of the cranium. The only foramen we observe in them, is a small one towards the upper and posterior part of each. It has been named the parietal foramen, and serves for the transmission of a small vein to the In many subjects this foramen is longitudinal sinus. wanting. On the inner surface of these bones are the marks of the vessels of the dura mater, and of the convoluted surface of the brain. On the inside of their upper edge we may likewise observe a consider able furrow, which corresponds with the longitudinal sinus of the dura mater; and lower down, towards their posterior and inferior angle, is a smaller one for part of the lateral sinuses. These bones are joined to each other by the sagittal suture; to the os sphenoides, and ossa temporum, by the squamous suture: to the os occipitis by the lambdoidal suture; and to the os frontis by the coronal suture. Their connexion with this latter bone is well worthy our attention. We shall find, that in the middle of the suture, where the os frontis from its size and flatness is the most in danger of being injured, it rests upon the arch formed by the parietal bones; whereas, at the sides, the parietal tones are found resting upon the os frontis, because this same arch is there in the greatest danger from the fire, or by placing him in a bagnio

In new born infants, the ossa parietalia are Dieselle separated from the middle of the divided os frontis by a portion of the cramum, then unossified. When the inger is applied to this part, the motion of the brain, and the pulsation of the atteries of the dura mate, may be easily distinguished. In general, the whole of this part is completely ossilied before we are seven

PARIETA'RIA PARIETA'RIA. (From paries, a wall; because it grows upon old walls, among rubbish.) 1. The name of a genus of plants in the Linusan system. Class. Polygamm : Order, Manaca.

The pharmacoperal name of the wall pellitory. See Parietaria officinalis.

PARLETARIA OFFICIALIS. The systematic name of the wall pellutory. Paracturin folias lancoolato-acastas, primerales dichotomes, calculus diphyllss, of Linnaus. This plant has no smell, and its taste is simply herbaceous. In the practice of the present day, it is wholly laid aside, although it was formerly in high extinctions as a dimerial. estimation as a digretic

PARIS. So called in reference to the youth of that name, who adjudged the golden apple to Venus, genus of plants in the Linnwan system. Class, Octan-

arra; Order, Tetragynia.
2. The pharmacopoial name of the herb Paris. See

Paris quadrifolia.

PARIS QUADRIFOLIA. The systematic name of the head Paris, or true love. The colour and smell of this plant indicate its possessing narcotic powers. leaves and berries are said to be efficacious in the cure or hooping cough, and to act like opium. Great caution is requisite in their exhibition, as convulsions and death are caused by an overdose. The root possesses emetic qualities.

(From wasa, and colucov, the part of the throat where the tonsils are. A part of the throat near the tonsils, or disorders of the tonsils.

PARL THIMO TOMUS. (From παρασθμα, the tonsils, and τεμνω, to cut.) An instrument with which the tonsils were formerly scarned

PARISTHMITIS. Inflammation of parts about the

Fances.

PARODO NTIS. (From wava, near, and ocovs, a tooth.)
A painful tubercle upon the rums.

PARODYNIA. (From smal, wate, and wave, or well, cost, dolor parturents). The name of a genus of cissase in Good's Nosology. Class, Genetica; Order, Carpatica. Mobile labour. It customes seven species, viz. Paradynin attaces; jumpastica, well and paradises and paradises are presented in the cost of the paradynin attaces; jumpastical paradises.

name of a genus of diseases in Good's Nosology. Neurotica; Order, Phrenica. Sleep, disturbance. It has three species, viz. Paroniria ambulans; loquens,

scess of the same nature with those arising in other parts of the body. These absences are situated more pacts of the body. These abscesses are situated more or less deep, which has induced the writers upon the subject to divide them into several species; accordingly they have ranged them under four heads, agreeably to the places where they are formed. The first kind of panaris is formed under the cutiele, on one side of the nail, and sometimes all round it. The second is seated in the fat lying under the skin, between that and the sheath which involves the flexor tendons. The third is described by authors to be formed within the sheath; and they still add a fourth species, arising between the periosteum and the bone.

(From wapa, near, and wy, the eye.) PARO PIE.

PAROPIA. (From wape, near, and wh, the eye.) The external angles of the eyes.

PAROPSIS. (From wave, male, and objes, visus, sight.) The name of a genus of diseases in Good' Nosology. Class, Neurotica; Order, Phrenica. Mor bid sight. It has thirteen species; viz. Paropsis luctures; notifings; notifings; longingua; propringua; lateralis; the state of the college. fuga; nucerage, congagua; production idustria; catigo; glaucosis; catarracti; synizesis; amaurosis; staphyloma; and strabismus.
PAROPTE SIS. Troin maga, and om Jao, to roast.)
A provocation of sweat, by making a patient approach

From wapa, diminutive, and opaw, to see.) An imbeculity of sight.
PARORCHI DIUM. (From παρα, and ορχις, a tes-

ticle.) A tumour in the groun, occasioned by the tes-

cle, which is passing into the scrotum
PAROSMIS (From Tages mult PAROSMIS. (From παρα, male, bad; and οζω, offacto, to smell.) The name of a genus of discases in Good's Nosology. Class, Neurotica; Order, Osthetica; Morbid smell. It has three species; viz. Parosmis acris, obtasa, and expers.
PAROSTIA. (From παρα, and οσπον, a bone.) The name of a genus of diseases in Good's Nosology.

Class, Ecoretica: Order, Mesotica. Misossilication. Its species are two, viz. Parastia fragilis, and flexis. PAROFID GLAND. (Parasticleus: from mapa, about, and og, the car.) Glandula parastida: Parastical Par about, and og, the ear.) Granuata paratites: Para-tis. A large conglomerate and salival gland, situated under the ear, between the manillary process of the temple bone and the angle of the lower jaw. The excretory duct of this gland opens in the mouth, and is called, from its discoverer, the Stenonian duct.

PAROTIDE'A. (From ωαρωτις, the parotid gland.) The trivial name of a species of quinsy, in which the parotid gland, neck, and throat, are considerably affect-

d. See (ynanche parotidea.
PARO'TIS. (From wapa, near, and ovs, the ear.) ee Parotid gland.
PAROTITIS: Inflammation of the parotid gland

See Cynanche parotidea.

PAROXYSM. (Pararysmus; from ωαροξυνω, aggravatt) 1. An obvious increase of the syn toms of a disease which lasts a certain time and then

declines. A periodical attack or fit of a disease. Parsley, black mountain. See Athamanta oreose-

PARSLEY. See Apium petrosclinum. Parstey, Macedonian. See Bubon macedonicum. PARSNIP. See Pastinaca sativa. Parsnip, water. See Sium modifiorum.

PARTHENIA'STRUM. (Diminutive of parthenium,

tansy.) A species of parthenium.

PA'RTHENIS. The same as parthenium.

PARTHE NIUM. (From παρθενος, a vugin so called because of its uses in diseases of young women )

See Matricaria parthenium.

Partierium Mas. See Tanacetum.

Partitus. A botanical term: partite, cut, as it were, almost to the base, and according to the number of incisions; bipartite when two, tripartite when three, quadripartite when four, quinquepartite when

[PARTRIDGE BERRY. See Gaultheria, A.]
PARTURITION. Parturitio; from parto
expulsion of the feetus from the uterus.

After seven months of pregnancy, the fœtus has all the conditions for breathing, and exercising its dige tion; it may then be separated from its mother, and change its mode of existence; childbuth rarely, however, happens at this period: most frequently the fecus remains two months longer in the uterus, and it does not pass out of this organ till after the revolution of nine months.

Examples are related of children being born after ten full months of gestation, but these cases are very doubtful, for it is very difficult to know exactly the period of conception. The legislation, in France, however, ha? fixed the principle, that childbirth may take place the 299th day of pregnancy.

Nothing is more curious than the mechanism by which the fœtus is expelled; every thing happens with wonderful precision; all seems to have been foreseen, and calculated to favour its passage through the pelvis,

and the genital parts.

The physical causes that determine the exit of the fætus are the contraction of the uterus, and that of the abdominal muscles; by their force the liquor amnii flows out, the head of the fetus is engaged in the pelvis, it goes through it, and soon passes out by the valve, the folds of which disappear; these different phenome na take place in succession, and continue a certain time: they are accompanied with pains more or less severe, with swelling and softening of the soft parts of the pelvis, and external genital parts, and with an abundant mucous secretion in the cavity of the vagina. All these circumstances, each in its own way, favour the passage of the fotus

To facilitate the study of this complicated action, it must be divided into several periods

The first period of childbirth.—It is constituted by the precursory signs. Two or three days before childbirth, a flow of mucus takes place from the vagina, the external genital parts swell, and become softer; it is the same with the ligaments that unite the bones of is the same with the ingaments that the the same who have the pelvis; the cerew atere flattens, its opening is enlarged, its edges become thinner; slight pains, known under the name of flying pains, are felt in the loins and abdomen.

Second period .- Pains of a peculiar kind come on they begin in the lumbar region, and seem to be propagated towards the cernix uteri, or the rectum; they are renewed only after considerable intervals, as a quarter, or half au hour. Each of them is accompanied with an evident contraction of the body of the uterus, with tension of its neck, and dilatation of the opening; the inger directed into the vagina discovers that the envelopes of the fœius are pushed outward, and that there is a considerable tumour which is called the waters: the pains very soon become stronger, and the contractions of the uterus more powerful; the membranes break, and a part of the liquid escapes; the uterus contracts on itself, and is applied to the surface of the fetus.

Third period.-The pains and contractions of the uterus increase considerably; they are instinctively accompanied by the contraction of the abdominal muscles. The woman who is aware of their effect is in-clined to favour them, in making all the muscular efforts of which she is capable; her pulse then becomes stronger and more frequent; her face is animated, her eyes shine, her whole body is in extreme agitation, perspiration flows in abundance. The head is then engaged in the pelvis; the occiput, placed at first above the left acetabulum, is directed inward and down-ward, and comes below and behind the arch of the

pubis.

Fourth period.—After some instants of repose, the pains and expulsive contractions resume all their activity; the head presents itself at the vulva, makes an effort to pass, and succeeds when there happens to be a contra on sufficiently strong to produce this effect.
The nead being once disengaged, the remaining parts of the body easily follow on account of their smaller volume. The section of the umbilical cord is then made, and a ligature is put round it at a short distance

Fight a riod, It the according has not proceeded Fig. p. root. 11 the accounter risk not proceeded internal facility to the vivaction of the placents after the birth of the child, slight pains are felt in a short time, the mines contracts freely, but with force enough to throw off the placents, and the membranes of the ovum: this expulsion bears the name of delivery. During the twelve or fifteen days that follow child. birth, the uterus contracts by degrees upon itself, the woman suffers abundant perspirations, her mamma are extended by the milk that they secrete; a flow of matter, which takes place from the vagina, called lockia, first sanguiferous, then whitish, indicates that the organs of the woman resume, by degrees, the disposition that they had before conception."- Magendie.

silion that they had before conception. — Magerdate. PARULIS. (From waga, mear, and oxlow, the gum.) An inflammation, boil, or abscess in the gums. PARURIA. (From mago, perperam, and opico, to make water.) The name of a genus of diseases in Good's Nosology. Class, Eccritica; Order, Catotica. Mismicturition. It embraces seven species, viz. Paramismicurium. It embraces seven species, viz. rara-ria inops; retentionis; stillatitia; mellita; inconti-m.ns; meaciu, and ceretreu Parγ'aron. (From παρα, and υγρος, lumid.) A liquid or moist preparation for allaying a topical in-

flammation.

PASI PHILUS. (From was, all, and φιλος, grateful, from its general usefulness.) A name given to a

(From πασσω, t) sprinkle over.) See

Catapasma. PA'SSA. (From pando, to spread.)

A grape or raisin.

2. In Paracelsus it is a whitloe.

2. In Paraceisus Its a windor.

Passa Minor. See Toa passa minor.

Passava'nticus. (From was, all, and avatva, to
dry up.) An epithet given by Schroder to a powder,
which dries up, and evacuates morbid humours.

PASSIFLO RA (Altered by Linneus, from fles

passions of preceding botanists a term applied to the beautiful genus in question, because the instruments of Christ's passion were thought to be represented in the parts of the fructification.) The name of a genus the parts of the fructification.) The name of a genus of plants in the Linnean system. Class, Guanaria: Order, Pentandria.

Passiflora Laurifolia. Bay-leaved passion ower. A native of Surmam. The finit of this free grows to the size of a small lemon, which it greatly resembles. It has a delicious smell and flavour, and is excellent for quenching thirst, abating heat of the stomach, increasing the appetite, recruiting the spirits, and allaving the heat in fevers.

PASSIFLORA MALIFORMIS. Apple-shaped granadilla. The fruit of this species of passion flower is esteemed a delicacy in the West Indies, where it is served up at table in desserts. They are not unwholesome.

PASSION. (Passio, onis. f.; from patier, to suffer.)
By passion, is generally understood an instinctive feel By passion, is generally understood an instituetive feating become extreme and exclusive. A man of strong passion neither hears, sees, nor exists, but through the feeling which agitates him; and as the violence of this feeling is such that it is extremely paintuil, it has been called passion or suffering. The passions have the same end as institut; like them, they incline animals to act according to the general laws of animated varieties.

We see in man passions which he has in common with the animals, and which consist of mimal wants, become excessive; but he has others which are displayed only in the social state. These are social wants

grown to excess.

The animal passions have a twofold design, the preservation of the individual, and of the species.

To the preservation of the individual belong fear, anger, sorrow, hatred, excessive hunger, &cc. preservation of the species, excessive venereal desires, jealousy; the fury which is felt when the young ones are in danger, &cc

Nature has made this sort of passions very powerful.

and which are equally so in a state of civilization.

The passions which belong to the social state are only the social wants carried to an excess. Ambition is the inordinate love of power; avarice, the love of riches, become excessive; hatred and revenue, that natural and impetuous desire to injure wheever hunts us; the passion of gaming, and almost all the vices, which are also passions, are violent inclinations to in crease the feeling of existence; violent love is an elevation of the venereal desires, &c.

Some of the passions are allayed, or extinguished by gratification; others become more irritated by it. The first sort are therefore often the cause of happi ness, as is seen in philanthropy and love; while the

nees, as its seen in plinantinopy and lover, while the latter sort necessarily causes misery. Misers, ambitious and envious people, are examples of the last. If our necessities develope the intellect, the passions are the principle or the cause of every thing general which man performs, whether good or bad. Great poets, heroes, great criminals, and conquerors, are meanof strong passions. of strong passions.

Passion, caliac. See Diarrhan caliaca.

Passion, hysteric. See Hysteria. Passion, iliac. See Iliac Passion. PASSU'LA. A small raisin.

PASSULE MAJORES. See the passa major.
PASSULE MAJORES. See the passala, a fig. or raisin.)
This is a term given by Dispensatory writers to some medicines where raisins are the chief ingredient; as the electuarium passulatum, &c.
PA'SSUM. (From passa, a grape, or raisin.)

PA'STA. A round cake or lozenge.

PASTA REGIA. (From wagow, to sprinkle.) A lo-zenge, or small cake, sprinkled over with some dry

powdered substance.

PASTI'LLUM. (Diminutive of pasta, a lozenge.

Pastilus. A troch or pastil. A little lump of pasta or ball, made to take like a lozenge.

PASTINA'CA. (A pasta; from its usefulness as a food.) 1. The name of a genus of plants in the Lunnean system. Class, Pentandria; Order, Dogmer. Parsnip.

2. The pharmacopæial name of the parsnip. See

Pastinaca sativa.

PASTINACA OPOPANAX. The systematic name of the plant which yields opopanax. The plant from whence

this gain resin is produced is known by the names of one gour result is known by the names of opponacion; paraci heracteria, paraci casteriam, paraci nas pasteriarea, legia. Hercules all heal; and oponacional desirence. Folicis printites, foliotis base authoric exists, of Limineus. Opponiar is the guinnites mons jurie, obtained by means of meisions made at the foliotis. the bottom of the stalk of the plant, from which it gradually exudes, and by undergoing spontaneous concretion, assumes the appearance under which we have it imported from Turkey and the East Indies, viz. sometimes in little drops or tears, more commonly in irregular lumps, of a reddish yellow colour on the outside, with specks of winner, internally of a paler colour, and frequently variegated with large white pieces. Opopanax has a strong disagreeable smell, and a bitter, acrid, somewhat nauscous taste. It is only employed in the present practice as an antispasmodic, in combi nation with other medicines, although it was formerly in high estimation as an attenuant, deobstruent, and aperient. Its antispasmodic virtues are less powerful than gaibanum, and more so than ammoniacum. has no place in the Edmburgh Pharmacopera, but is directed by the London College.

PASTINALA SATIVA. The systematic name of the

PASTINACA SATIVA. The systematic name of the passing. The cultivated or garden parsing is the Pas tenoca :- foliolis simpliciter pinnatis, of Linneus, Flaphoboscum, of the ancients. Its roots are sweet and nutritions, and in high esteem as an article of food. They possess an aromatic flavour, more especially those of the wild plant, and are exhibited in galeulous complaints for their dimetic and sheathing qualities.

PATE/LIA. (Diminutive of patina, a dist: 80 named from its shape.) Rotala. The knee pan. A small flat bone, which, in some measure, resembles the common figure of the Leart, with its point downwards, and is placed at the forepart of the joint of the knee It is thicker in its middle part than at its edge. Ante riorly it is a little convex, and rough for the insertion of muscles and ligaments: posteriorly it is smooth, covered with cartilage, and divided by a middle longitudinal ridge, into two slightly concave surfaces, of which the external one is the largest and despest. They are both exactly adapted to the pulley of the os ferrours. The edge of this posterior surface are rough and prominent where the capsular ligament is attached, and below is a roughness at the point of the bone, and below is a roughness at the point of the bone, where the upper extremity of a strong tendinous ligament is fixed, which joins this bone to the tuberosity as the upper end of the tibia. This ligament is of considerable thickness, about an inch in breadth, and upwards of two inches in length. The pattella is composed internally of a cellular substance, covered by a thin bony plate; but us cells are so extremely minute, that the strength of the bone is, upon the whole, very considerable. In new born children it is entirely cartilinginous. The use of this bone scens to be, to defend the artice ation of the joint of the knee from external unjury. It likewise tends to increase the power of the muscles which act in the extension of the leg, by re moving their direction farther from the centre of motion, in the manner of a pulley. When we consider the manner in which it is connected with the tibia, we find that it may very properly be considered as an appendix to the latter, which it follows in all its motions, so as to be to the tibia what the olecranon is to the ulna, with this difference, however, that the patella is moveable, whereas the olecranon is a fixed process. out this mobility, the rotatory motion of the leg would have been prevented.

have been prevented.

PATENS. Spreading. Applied to leaves, metals, &c.; as the stem of the Atemplex portulneades.

PATHETICL (Pathetrews: from words, an affection: herainse they direct the eyes to express the passions of the mind.) Avery pathetrer; Trackleatores.

The fourth pain of nerves. They must from the cruraof the corchellum laterally, and are distributed in the

naisculus oblaquas superior, sea trachlearis.
PATHEGNOMONIC. (Pathagnamonicus; from walls, adsense and removed to know A term given to those symptoms which are peculiar to a disease. They are also termed proper or characteristic symp-

PATHOLOGY. (Pathologia; from water, a discusse, and so, a. adiscourse) The doctrine of discusses. It comprehends narrhogy, attalogy, symptomatology, PATIENTIA. (From patior, to bear, or suffer.)

The name of the herb monk's rhubarb, from its gentle

purging qualities. See Rumez patientia. PATIENCE. See Rumez patientia.

PA'TOR NARIUM. (From pateo, to be opened.) The sinus, cavity, or chasm of the nose

PA'TRUM CORTEX. (So called from the Jesuits. termed fathers in the church of Rome, who first spread its use in Europe.) See Cinchona. PATU'RSA. The venereal disease

Paul's betony. See Veronica.

PAULI'NA CONFECTIO. (From wave, to test.) A warm opiate, similar to the Confectio opa; so called by Aristarchus, which is the same with the Confectio

PAULITE. See Hypersthene.

PAULITE. See Hyperstheae.
PAULITE. See Hyperstheae.
PAVA'NA. See Croton tighum.
PA'vor. (From pares, to fear: so called from the dread there is of approaching or touching a person affected with it.) The itch.

PEA. The pisum sativum of Linnæus. A species of pulse of great variety, and much in use as a nourishing article of diet.

EA-STONE. A variety of limestone.

PEACH. See Anygdalus persica.
PEAGLE. See Primula veris.
PEAR. See Pyrus communis. Of pears there are many varieties, allording a wholesome nourishment.

PEARL. See Margarita.

PEARL ASH. An impure potassa obtained by lix

PEARL ASH. An impure potassa obtained by lixiviation from the ashes of plants. See Potassa.

Pearl barley. See Hordeum. PEARL SINTER. Fiorite.

A variety of silicidus sinter, of a white and gray colour, and found on volcanic tuff on the Vicentine.

PEARLSTONE. A sub-species of indivisible quartz of Jameson and Mohs. It is generally of a gray colour, and occurs in great beds in clay porphyry, near Tokay in Hungary, and in Ireland.
PECHBLENDE. An ore of uranium.

PECHE DION. Hyggerov. The perinasum.
PECHE DION. Hyggerov. The perinasum.
PECHU'RIM CORTEX. A highly aromatic bark, the produce of a species of Laurus. It is extremely fragrant, like unto that of cinnamon, which it greatly re sembles in its properties. In Lishon it is much esteem ed in the cure of dysenteries, and for allaying obstinate vomitings.

omitings.
РЕСПИ 'ММ РАВА. See Faba pechurim.
РЕСПИ 'ММ РАВА. See Faba pechurim.
РЕСПИ 'ММ РАВА. (From πηχυς, the cubit, and αγρα, a izure.) The gout in the elbow.
РЕСПУК. Пηχυς. The cubit, or elbow.

PE'CHY, Haves, The cubit, or elbow.
PECHYT'RE. An epithet for the scury.
PECQUET, John, was a native of Dicape, and graduated at Montpelier. He pursued the study of ana tomy with great ardour and ingenuity, which he evinced tony with great artion and ingentiny, with inservinced by the discovery of the thoracic duet, and the recepta-culum chyli, while yet a student, in 1647. He then settled to practise in his native town; but soon after repaired to Paris, with a view of demonstrating completely the importa cessels which he had discovered and he succeeded in tracing the progress of the chyle into the left subclavian voin. He published an account of this discovery, with a Dissertation on the Circulation of the Blood, and Motion of the Chyle, in 1651; and his fame, in consequence, speedily extended throughout Europe, though some denied the truth, others the originality, of it. Besides his anatomical skill, he was a man of considerable acquirements, and became a Member of the Royal Academy of Sciences. He is said, however, to have shortened his life by an unfortunate attachment to spirituous liquors, and died in 1674.

Pecquet's duct. See Thoracie duct.

PECTEN. The pubes, or share-bone.
["Pectic acid. M. H. Braconnot has given the name of pectic acid to a principle found by him in several plants which have the property of being coagulated by alkohol, metallic solutions, the acids, &c. Itappears to be the same substance discovered by Prof. Torrey, of New-York, in the Tuckahoe, Sclerotium giganteum, a fungus common in the sandy barrens of the southern states, and to which he gave the name of Sclerotin. It is readily soluble in a solution of caustic potassa, and this solution is gelatinized by almost every known body "—Webs. Man. Chem. A.] PECTINALIS. (So named from its arising at the

femoral, of Dunias. A small flat muscle, situated obliquely between the pubes and the little trochanter, at the upper and anterior part of the thigh. It arises broad and fleshy from all the anterior edge of the ospectius, or pibrs, as It is more commonly called, asfar as its spine, and descending obliquely backwards and ontwards, is inserted by a short and broad tendon, into the upper and anterior part of the linea aspera of the os femoris, a little below the lesser trockanter. This muscle serves to bend the thigh, by drawing it upwards and inwards, and likewise assists in rolling it out-

PECTINATUS. (From pecten, a comb.) Pectiate. A term applied to a permatifid leaf, the segmens of which are remarkably narrow and paradel, like the teeth of a comb; as the lower leaves of the Hottma pulustris, and Nicrophyllum certicilatum.

2. The fasciculated muscular blues of the right au-

ricle of the heart are called musculi pectinati.

PROTINALIS. See Pretinalis.
PECTORAL. (Pectoralis; trom pectus, the brast.) Of or belonging to, or that which relieves disordes of the chest

PECTORA'LIS. Musculus pectoralis. See Picto-

ralis major

PECTORALIS MA'JOR. A broad, thick, fleshy, and radiated muscle, situated immediately under the nteguments, and covering almost the whole anteriorpart of the breast. Pectorales, of authors; and sterno-coto-clavio hundral, of Dunas. Winslow calls it pectrales major, to distinguish it from the servatal antius, which he has named pectoralis minor. It arises from the cartilaginous extremities of the 64th and sixth abs, from the last of which its tendinous fibres descend ever the upper part of the obliquus exterious and recturab dominis, helping to form a part of the sheath in which domms, helping to form a part of the search in Windowshite the latter is included. It likewise springs from almost the whole length of the sternum by short tendrous fibres, which evidently decussate those on the other side; and tendinous and fleshy from more than a third of the anterior part of the clavicle. From these origins the fibres run in a folding manner towards the isalla, and are inserted by a broad tendon into the os humeri, above the insertion of the deltoid muscle, and at the outer side of the groove which lodges the tendor of the long head of the biceps. Some of its fibres livewise extend into that groove; and, from the lower part of this tendon, which is spread near two mehes abug the os humeri, we find it sending off other fibres, which help to form the fascia that covers the muscle of the It often happens that that part of the petoralis which arises from the clavicle, is separated from the inferior portion, so as to appear like a distinct nuscle. This has induced Winslow to divide it into parts, one of which he calls the clauseather, and the cher the thorace portion. Sometimes these two portons are inserted by separate tendons, which cross one another at the upper and more part of the os humer, the tendon of the thoracic portion being inserted at the outer edge of the bicipital groove, immediately behind the other This muscle, and the latissums dorsi, form the cavity of the axilla, or arm pit. The use of the pedoralis is to move the arm forwards, or to raise it obliquely towards the sternum. It likewise occasionally assists in moving the trunk upon the arm, thus, when we exert moving the trains apost or array may alone with the amy ciloris with the hand, as in raising ourseves from off an arm-chair, or in sealing a letter, the contraction of this muscle is particularly observable. To these uses Haller adds that of assisting in respiration, by raising the sternum and ribs. He tells us he well re-members, that when this muscle was affected by rheumatism, his breathing was incommoded; and that, when troubled with difficulty of respiration, he had often found himself greatly releaved by rassing and drawing back his shoulders, keeping his aims at the same time firmly fixed. Winslow, however, has denied this use, and Albinus has omitted it, probably because it does not take place in a natural state.

PECTORALIS MINOR. Servatus univers of Albinus. A fleshy and pretty considerable muscle, situated at the anterior and lateral part of the thorax, immediately under the pectoralis major. Douglas and Cowper call this muscle Serratus minor anticus; and Winslow gives it the name of Pectoralis minor; and Dumas calls it Costo coracoiden. It arises from the upper edges of the third, fourth, and fifth ribs, near where they join with their cartilages by an equal number of

tendinous and fleshy digitations, which have been compaied to the teeth of a saw, whence this and some other muscles, from their having a similar origin, or the third in the same of serrots. From these origins it becomes thicker and narrower as it ascends. and is inserted by a flat tendor, into the upper part of the coracoid process of the scapula. The puncipal use of this muscle is to draw the scapula forwards and downwards; and whea that is fixed, it may likewise serve to elevate the ribs

PECTORIS OS. See Sternum.

PECTUS. (Pectus, oris. n.) The breast. See Thoras

Fecto section. (Diminutive of pactus, the breast to Lamed from its shape.) The metatarsus. FEDATUS. (From pacta foot.) Pedate. A term applied to a particular kind of leaf, which is ternate with its lateral leaflets compounded to their forepart. as in Helleborus niger and fatedus, and . Irum dra-

PEDE/THMUS. (From micau, to leap.) The motion of the arteries from the impulse of the blood. The

guilse

PEDICELLATUS. (From pedicellus, a partial PEDICELLATUS. (From pedicellus, a partial flower-stalk. Having a small stalk: applied to a nec-tarywnich rests on a stalk: as in Acontum napellus.

PEDICELLUS. A partial flower-stalk. See Pe

PEDICULA'RIA. (From pediculus, a louse; so called from its use in destroying lice.) See Delphinium staphisagria.
PEDICULA TIO. Morbus pedicularis. Φθειμασις

That disease of the body in which lice are continually bred on the skin.

(Diminitutive of pes, a foot: so

named from its many small feet.)

1. A louse. The name of a genus of insects, of the order aptern. Two species are found on the human body, the Pediculus humanus, the common louse; and the P. pubis, or crab-louse.

2. A pedicle or footstalk of a flower, or leaf. See

Pedu kulus.

Petriculus. See Extensor brevs digitarum pedis.
PEHILUNIUM. From pes the foot, and lake, to
wash.) A bath for the feet.
PETRON. (From poss, the foot.) The soides of the
foot.
PETRON. (From pes, a foot.) The soides of the

PEDUNCULUS. A peduncle, or a flower stalk, or that which springs from the stem, and bears the flowers and front, and not the leaves

Pediallus is a partial flower stalk, the ultimate subdivision of a general one, as in the cowslip.

The pedunculus is,

1. Caulinus, cauline, when it grows immediately out of the nain stem, especially of a tree; as in Averrhoo

2. Raneus, growing out of the main branch; as in

Eugenia mulaccensis.

Axilaris, growing either from the bosom of a leaf, that is, between it and the stem, as in Anchusa sempervirens; or between a branch and a stem, as in Ruppia maritima.

Oppositifolius, opposite to a leaf; as in Geranium

pyrenacum.

Internodis, proceeding from the intermediate part of a branch between two leaves; as in Ehretia inter-

6. Gemmaceus, growing out of a leaf bud; as in Berberis vulgaris.

7. Terminalis, when it terminates a stem or branch :

as in Centaur, a scabiosa 8. Lateralis, when situated on the side of a stem or

branch; as in Erica vagans 9. Solitarius, either single on a plant; as in Rubus

chamemorus : or only one in the same place, as in . Intirrhinum spurium.

10. Pedenculi aggregati, clustered flower-stalks, when several grow together; as in Verbaseum negrum.
11. Spaces, de persed irregularly over the plant or

branches: as in Panunculus seleratus.
12. Unikum, biflori, triflori, 4-c. bearing one, two, three, or more flowers.

13. Muluflori, many-flowered; as Daphne laureola. When there is no flower-stalk, the flowers are said to

he sessiles, as in Centaurea cale rapa, and the dod PEGANELA UM. (From wygaror, rue, and charor,

(From mnyavov, rue.) A plaster

PEGANE RUM.

PEGANUM. (From whirew, to compress called, because, by its dryness, it condenses the seed.) See Ruta

PE'GE. (Πηγη, a fountain.) The internal angles of the eyes are called piga

PLEADA. A species of baldness, a shedding of the han from a venereal cause

PFLAGRA. Liephantiasis italica. This disease dies not appear to have been noticed by any of our nosologists, except Dr. Good. Indeed, few accounts of it have hitherro been pathushed, although the peculiar symptoms with which it is attended, and the fatal consequences which generally casue from it, render it sequences when generally cases from it, tenger it copiedly currents and important. In certain districts, as Alian and Padna, in Italy, where it is peculially prevalent, it is computed to attack five inhabitants out of every hundred. The following account of this singular disease is extracted from Dr. Jansen's treatise on the subject, who had seen the disease at Milan:

About the month of March or April, when the season

tovites the farmers to cultivate their fields, it often happens that a shiring red spot suddenly arises on the back of the hand, resembling the common crysipelas, but without much itching or pain, or indeed any other particular inconvenience. Both men and women, girls and boys, are equally subject to it. Sometimes this spot affects both Lands, without appearing on any other part of the body. Not uncommonly it arises also on part of the body. Not uncommonly it arress also on the shins, sometimes on the neck, and now and then, though very rarely, on the face. It is sometimes also seen on the breasts of women, where they are not covered by the clothes, but such parts of the body as are not exposed to the air, are very seldom affected; nor has it ever been observed to attack the palm of the hand, or the sole of the foot. This red spot elevates the skin a little, producing numerous small tubercles of discent colours. The skin becomes day and carks, and different colours; the skin becomes dry and cracks, and the epidermis sometimes assumes a fibrous appearance. At length it talls off in white furfuraceous scales; the shining reduess underneath still continues, and, in Some in tances, remains through the following winter. In the mean time, excepting this mere local affection. the health is not the least impaired, the patient performs all his rural labours as before, enjoys a good appetite, cass hearth, and digests well. The bowels are generally relayed at the very commencement of the disease, and continue so throughout its whole course. All the other excretions are as usual; and, in females, the mensus return at their accustomed periods, and in their proper quantity. But what is most supplising is, that in the month of September, when the heat of the sum-mer is ever, in some cases sooner, in others later, the disorder generally altogether disappears, and the skin resumes its natural healthy appearance. This change has been known to take place as early as the latter end of May or June, when the discuse has only been in its carliest stage. The patient, however, are not now to be considered as well; the discuse hides tiself, but is not cradicated; for no sooner data the following spring return, but it quickly reappears, and generally is accompanied with severe symptoms. The spot grows larger, the skin becomes a ose unequal and hard, with deeper cracks. The patient now begins to feel uneasiness in the head, becomes fearful, dull, less capable of labour, and much wearied with his usual exercions. He is excredingly affected with the changes of the atmosphere, and impatient both of cold and heat. Nevertheless he generally gets through his ordinary labour, with less vigour and cheerushess indeed than formerly, but still without being obliged to take to his bed; and as he has no 1 ver, his appetite continues good, and the chylo-poletic viscera perform their proper functions. When the pelacia has even arrived at this stage, the returning writer, nevertheless, commonly restores the parient to apparent health; but the more severe the symptoms have been, and the deeper root the disease has taken, the more certainly dors the reference of spring produce it with additional violence. Sementines the disease in the skin disappears, but the other symptoms remain notwithstending. The powers both of the mind and body now become daily more enfeebled, peevishness, watchings, vertigo, and, at length, complete melan choly, supervene. Nor is there a more distressing kind of melancholy any where to be seen, than takes place or metaneinty any where to be seen, than takes pare in this disease. "On entering the hospital at Legna no," says Dr. Jansen, "I was astomshed at the mourn-ful spectable I beheld, especially in the women's ward. There they all sat, indolent, languid, with downcast looks, their eyes expressing distress, weeping without cause, and scarcely returning an answer when spoken to; so that a person would suppose himself to be among fools and mad people: and, ladeed, with very good reason; for gradually this melancholy increases, and at

length ends in real mania. Many, as I had an opportunity of observing in this hospital, were covered with a peculiar and character-istic sweat, having a very offensive smell, which I know not how better to express than by comparing it to the smell of mouldy bread. A person accustonated to see the disease would at once recognise it by this single symptom. Many complained of a burning pain at night in the soles of the feet, which often deprived them of sleep. Some with double vision: others with them of seep. Some wint nounce vision: Others with fatuity; others with visceral obstructions; others with additional symptoms. Nevertheless, fever still keeps off, the appetite is unimpaired, and the secretions are regularly carried on. But the disease goes on urcreas-ing, the nerves are more debilitated, the legs and thighs lose the power of motion, stupor or delinium comes on, and the melancholy terminates in confirmed manua In the hospital at Legnano, I saw both men and women in this maniacal state. Some lay quiet; others were raving, and obliged to be field down to the bed, to preraving, and omiged to be ned down to the bed, to pre-vent them from doing mischief to themselves and others. In almost all these the pulse was small, slow, and without any character of fever. One women ap-peared to have a slight degree of turor uterimis; for, at the sight of men she became merry, smiled, offered kisses, and by her gestures desired them to come to Some were occupied in constant prayers: wards her. some pleased themselves with laughter, and others with other things. But it was remarkable, that all who were in this stage of the disease, had a strong propen-sity to drown themselves. They now begin to grow emaciated, and the delirium is often followed by a species of tabes. A colliquative diarrhea comes on, which no remedy can stop, as also has been observed in nostalgia. Sometimes, in the pelagra, the diarrhosa comes on before the dehrium, and the defirium and stupor mutually interchange with each other. appetite often suddenly failed, so that the sick will sometimes go for near a week without tasting food. Not uncommonly it returns as suddenly, so that they eagerly devomed whatever was offered them, and this even at times when they are horridly convulsed. The convulsions with which they are attacked, are most shocking to see, and are of almost every kind, catalep-y excepted, which has been described by writers. one girl in bed, who was violently distorted by opisthoone 2H in the discussion was viocated associated by obstan-tonos every time she atterapted to rise. Some are seized with emprosthotonos; and others with other species of tetanus. At length, syncope and death clase the tragedy, often without any symptom of fever oc-curring through the whole course of the disease." The first stage of the pelagra, in which the local affection only takes place, Dr. Jansen observes, continues in some instances for a great length of time; persons being occasionally met with in whom it has lasted six or eight, or even fifteen years, disappearing regularly every winter, and returning again in the spring. occasions some of the inhabitants to pay little attention to it; although, in other cases, it reaches its greatest height after the second or third attack. It appears that this disease is not intections, and that the causes producing it are yet unascertained. It has been supposed by some, to arise from the heat of the sun's rays; and hence it is now and then called mal de sole; but this does not produce any similar disease in other parts of the world, where it is in an equal or even much greater degree than at Milan; no disease in any respect re-sembling it, having hitherto been noticed in such regions, except the lepra asturiensis described by Thiery. and after him by Sauvages. In this, a tren our of the head and trunk of the body takes place, which does not happen in the pelagra. This, however, is the principal difference in the two diseases.

Pela'rium. (From ωηλος, mud: so called from its

Peleca'nus. (From welekaw, to perforate.) 1. The ird called the pelican.

2. An instrument to draw teeth: so named from its curvature at the end recorbing the beak of a pelican.
PELECINUM. From Taylors, a hatchet; so called because its seeds are shaped like a two-edged hatchet.)

The hatchet vetch.

PELIOM. A blue-coloured mineral, very similar to

PERIODAL A folic coloured mineral, very indice, found in Bodenmais, in Bohemia.

Petto MA. (From πελος, black.) An extravasation of blood of a livid colour. of blood of a livid colour.

PELLICULA. A pellicle or slender skin. In medicine, it is applied to such an appearance of the surface of urine, and to very delicate membraneous productions. In botany, to the deficate skin which covers some seeds; as the almond, &c.

PELLITORY. See Parectaria.

Pellitary of Spain. See Arbillea ptarmica.

A (From Exbo) to move forwards.) The sole of the foot, a suck adapted to the sole of the foot.

PELTA (Pellin, shield or buckler) A variety of

PELTA. (Pelta, a shield or buckler.) A variety of the caly culus, called the shield, which is the truit, of an oblong, flat, and obtuse form, observed in the lichen

PEUTA'LIS CARTILAGO. (From pelta, a buckler: so called from its shape.) The scutiform cartilage of the

FUS. (From pelta, a shield.) Peltate: leaves which have the stalk inserted into their middle, like the arm of a man holding a shield;

their middle, like the arm of a man hololog a subset, as in Troposlum majors, and Hydrocatale valgavrs.

PELVIC. (Pelvicus; from pelvis, the lower part of the trunk of the body.) Pertaining to the pelvis.

PERVIC LIGAMENUS. The articulation of the ose sacrum with the last lumbar vertebra, and with the oses. innominata, is strengthened by means of a strong transverse ligament, which passes from the extremity and lower edge of the last lumbar vertebra, to the posterior and internal surface of the spine of the ihum. Other ligaments are extended posteriorly from the os sacrum to the ossa ilia on each side, and, from the direction of their fibres, may be called the lateral ligaments. Be-sides these, there are many shorter ligamentous fibres, which are seen stretched from the whole circumference of the articulating surfaces of these two bones, of the afficulating surfaces of these two bones. But the most remarkable ligaments of the pelvis are the two sacro-tschatic ligaments, which are placed towards the posterior and inferior part of the pelvis. One of these may be called the greater, and the other the lesser sacro-ischiatic ligament. The first of these is attached to the posterior edge of the os sacrom, to the therosity of the dimm, and to the first of the three divisions of the os coccygis. Its other extremity is inserted into the inner surface of the tuberosity of the ischium. inner surface of the tuberosity of the ischium. At its upper part it is of considerable breadth, after which it becomes nar ower, but expands again before its inser-tion into the ischium, and extending along the tuberosity of that bone to the lower branch of the os pubis, where it terminates in a point, forms a kind of falx, one end of which is loose, while the other is fixed to the bone. The lesser sac ischiatic ligament is somethe none. The reservact-scenaric ngament is some-what thicker than the former, and is placed obliquely hefore it. It extends from the transverse processes of the os sacrum, and the tuberosity of the spine of the lihum, on each side, to the spine of the ischum. These two ligaments not only serve to strengthen the articu lation of the ossa innominata with the os sacrum, but to support the weight of the viscera contained in the pelvis, the back and lower part of which is closed by these ligaments. The posterior and external surface of the greater ligament likewise serves for the attachment of some portions of the glutens maximus and ge-min muscles. The symphysis pubis is strengthened internally by a transverse ligament, some of the fibres of which are extended to the obturator ligament.

PELVIS. (From πελος, a basin; because it is shaped like a basin used in former times.) The cavity below the belly. It contains the rectum and urinary bladder, the internal organs of generation, and has its mu-cles and bones.

The pelvis consists, in the child, PELVIS, BUNES OF. of many pieces, but in the adult, it is formed of four bones, of the os sacrum behind, the ossa innominata on enther side, and the os concygis below. See Sacrum, Innominatum as, and Coccugis as. It is wide and expanded at its upper part, and contracted at its inferior

PEM PEN

The upper part of the pelvis, properly so | eyes duff and languid, but without delirium. called, is bounded by an oval ring, which parts the ca-vity of the pelvis from the cavity of the abdomen. This circle is denominated the brim of the pelvis; it is formed by a continued and prominent line along the upper part of the sacrum, the middle of the dium, and the upper part, or crest, of the os pubis. The circle of the brim supports the impregnated womb; keeps it up against the pressure of labour-pains; and sometimes this line has been "as sharp as a paper-folder, and has cut across the segment of the womb." and so by separating the womb from the vagina, has rendered delivery impossible; and the child escaping into the abdomen the woman has died. The lower part of the men the woman has deal. The tower part of the pelvis is denominated the outlet. It is composed by the arch of the ossa publis, and by the seiatic figaments; it is wide and dilateable, to permit the delivery of the child; but being sometimes too wide, it permits the child's head to press so suddenly, and with such vio-lence upon the soft parts, that the perineum is forn.

The marks of the female skeleton have been sought for in the skull, as in the continuation of sagittal suture; but the truest marks are those which relate to that great function by which chiefly the sexes are distinguished; for while the male pelvis is large and strong, with a small cavity, narrow openings, and bones of greater strength, the female pelvis is very shallow and wide, with a large cavity and slender bones, and every peculiarity which may conduce to the easy passage of the child.

The office of the pelvis is to give a steady bearing to the trunk, and to connect it with the lower extremities, by a sure and firm joining, to form the centre of all the great motions of the body, to contain the internal organs of generation, the urinary bladder, the rectum, and occasionally part of the small intestines, and to give support to the gravid uterus.

PELVIS AURIUM. The cochlea of the ear.

The infundibulum. PELVIS CEREBRI.

PEMPHIGO DES. PEMPHIGO DES. (From πεμφεζ, a blast of wind.)

A fever distinguished by flatulencies and inflations, in which a sort of aerial vapour was said to pass through

PE MPHIGUS. (From ωεμφέξ, a bubble, or vesi PE MYHIGES. (From Employs, a number of vesicle.) Februs bullosa; Examinemata serous; Morta; Pemphigus helvetions, Pemphigus major; Pemphigus minor. The vesicular fever. A fever attended by successive eruptions of vesicles about the size of almonds, which are filled with a yellowish serum, and in three or four days subside. The fever may be either It is a genus of disease in the class synoch or typhus. Pyrexia, and order Exanthemata, of Cullen. The latest writers on this disease contend, that it is sometimes acute and sometimes a chronic affection; that the former is constantly attended with fever, the latter is constantly withou': that in neither case is it an actimonious or contaguous matter thrown out by the constitution, but pure serum, secreted by the cutaneous exhalent arteries. So rare was the disease when Dr. Cullen wrote, that he never saw it but once, in a case which was shown to him by Dr. Home. Dr. David Stuart, then physician to the hospital of Aberdeen, published an account of it in the Edinburgh Medical ( The patient was a private soldier of the mentaries. 73d regiment, aged 18, formerly a pedler, and naturally of a healthy constitution. About twenty days before, he had been serzed with the meazles, when in the country; and in marching to town on the second day of their eruption, he was exposed to cold; upon which they suddenly disappeared. On his arrival at Aber-deen, he was quartered in a damp under-ground apartment. He then complained of sickness at stomach, great oppression about the pracordia, headache, lassi-tude, and weariness on the least exertion, with stiffness and rigidity of his knees and other joints. He had been purged, but with little benefit. About ten days before, he observed on the inside of his thighs, a number of very small, distinct red spots, a little elevated above the surface of the skin, and much resembling the first appearance of the small-pox. This eruption gradually spread itself over his whole body, and the pustules continued every day to increase in size.

Upon being received into the hospital, he complained of headache, sickness at stomach, oppression about the precordia, thirst, sore throat, with difficulty of swal-lowing; his tongue was foul, his skin felt bot and feverich, pulse from 110 to 120 rather depressed, belly costive

whole surface of the skin was interspersed with vestcles, or phlyctanae, of the size of an ordinary walnut; many of them were larger, especially on the arms and b.east. In the interstices, between the vesicles, the appearance of the skin was natural, nor was there any reduces round their base; the distance from one to another was from half an inch to a handbreath, or more. In some places two or three were joined to-gether, like the pustules in the confluent small-pox. A few vesticles had burst of themselves, and formed a whitish scab or crust. These were mostly on the neck withist scar or crust. These were mostly on the neck and face; others showed a tolerable landable pas. However, by far the greatest mumber were perfectly entire, turgid, and of a bluish colour. Upon opening them, it was evident that the cuticle elevated above the cutis, and distended with a thin, yellowish, semipellucid serum, formed this appearance. Nor was the surface of the cutis ulcerated, or livid; but of a red florid colour, as when the cuticle is separated by a blister, or superficial burning. No other person la-boured under a similar disease, either in the part of the country from which he came, or where he resided, in Aberdeen. Since the publication of this case of pemphigus,

by Dr. Stuart, observations on this disease have been published by Dr. Duckson, of Dublin, by Mr. Gautskell and Mr. Upton, in the Mem. of the Medical Society of London. Some subsequent observations on pemphigus were published in the London Med Journal, by Mr. Thomas Christie. From a case which Mr. Christic describes, he is disposed to agree with Dr. Dickson, in thinking, that sometimes, at least, pemphigus is not contagious. He remarks, however, that the pemphigus described by some foreign writers was extremely indescribed by some foreign writers was extremely in-fections; circumstances which, he thinks, may lead to a division of the disease into two species, the pem-pighus simplex, and complicatus, both of which, but especially the last, seem to vary much with respect to

mildness and malignity.

PEMPHIGUS MAJOR. A title under which pemphigus is spoken of by Sauvages, who defines it an eruption of phlyctana, about the size of a hazel-nut, filled with a thin yellow serum. See Pemphigus.

PEMPHISUS MINOR. In this species the vesicles are

no larger than garden peas.

PEMPHIS. A species of Lythrum.
PEMPHIX. A vesicle, or bubble. See Pemphigus.
PEMPTA'US. (From πεμπτος, the fifth) An ague, PEMPITA'US. (From περιπτος the fifth) An ague, the paroxysm of which returns every fifth day.

PENÆA. (A name given by Linnaus in memory of the learned Peter Pena, a native of France, and an excellent scientific botanist.) 1. A genus of plants in the Class Tetrandria; Order Monegyma.

2. The name of a species of polygala.

Penæa mucronata. The systematic name of the plant which is said to afford the sarcocolla. This is brought from Pecsia and Arabia in small grains of a pale yellow colour, having also sometimes mixed with them a few of a deep red colour. Its taste is bitter, but followed with some degree of sweetness. It has been chiefly used for external purposes, and, as its name imports, has been thought to agglutinate wounds and ulcers; but this opinion now no longer exists.

PENDULUS. Pendulous. Hanging. Applied to roots, leaves, flowers, seeds. &c. as the root of the Spiran filipendula, and Pania officinalis, which consits of knobs connected by filaments; and the seeds of the Magnolia grandiflora, which are suspended by

their filaments

PENETRA NTIA. (From penetro, to pierce through.) Medicines which pass through the pores and stimulate. PENICILLIFO'RMIS. (From penicilbus, a penilbrush, and forma, likeness.) Peniciliform. 1. Applied to the stigma of milium paspalium.

2. The extremities of the arteries which secrete the bile, are so called,

PENICULIUS. (Dim. of peniculum, a brush.)
Penicullum. 1. A tent, or pledget.

Pennituans. 1. A telli, or picture.

2. The secreting extremities of the vena portæ are called penvallt. See Layer.

Pennitus A kind of clarified sugar, with a mixture of starch, made up into small rolls. The confectioners call it harley-sugar.

PE'MS. (A pendendo, from its hanging down.)
Membrum virile. The cylindrical part that hangs down under the mons veneris, before the scrotum of males.

It is divided by anatomists into the root, body, and head, called the glans penis. It is composed of common integuments, two corpora cavernosa, and one corpus spongiosum, which surrounds a canal, the urethra, that proceeds from the bladder to the apex of the penis, where it opens by the meatus urmarus. See Urethra. The fold of the skin that covers the glans penis is termed the prepue. The arteries of the penis are from the hypogastric and ischiatic. The vein of the penis, rena magna ipsius penis, empties itself into the hypogastric vein. The absorbents of this organ are very numerous, and run under the common integuments to the inguinal glands: absorbents also are found in great plenty in the urethra. The glands of the penis are, Cowper's glands, the prostate, muciparous, and odori-ferous glands. The nerves of the penis are branches of the sacral and ischiatic

PENIS CEREBRI. The pineal gland.
PENIS ERECTOR. See Erector penis.

PENIS PRECIOR. See Erector penis.
PENIS WHILEBRIS. See Cittorias.
PENNYROYAL. See Mentha pulegium.
Pennyroyal, hart's. See Mentha corrina.
PENTADA CTYLON. (From wever, five, and carrelug, a finger: so called because it has five leaves. upon each stalk, like the fingers upon the hand.) I. The herb cinquefoil.

2. A name for the ricinus, the leaf of which resem-

bles a hand

PENTAGONUS. (From merre, five, and ywvea, an PENTAGONUS. (From πειτε. IIVe, and yourn, our angle.) Five-sided: applied to leaves synonymously with quinque-angular, as in Gerantum politatum.

PENTAMYRUM. (From πειτε. Tive, and μεσοι. ointent.) An outtonent composed of five ingredients.

PENTANDRIA. (From πειτε. five, and αιση. a husband.) The name of a class of plants in the sexual husband.

husband.) The name of a class of plants in the sexual system of Lumaus, embracing those which have hermaphredite flowers and five stamens.

PENTANEURON. (From merre, five, and recoor.)

a string: so called because it has five-ribbed leaves.)
Pentapleurum. Ribwort. See Plantago lanceolata.
Pentapha rmacon. (From weite. five, and coopa-

or, remedium, remedy.) Any medicine consisting of five ingredients.

PENTAPHYLLOI'DES. (From πειταφυλλου, cinquefoil, and αείος, likeness: so called from its resemblance to cinquefoil.) See Fragaria sterilis.
PENTAPHYLLUM. (From πειτε, five, and φυλ-

λου, a leaf: so named because it has five leaves on each stalk.) See Potentilla reptans.

PENTAPHYLLUS. (From weve, five, and φυλλου, a leaf.) Pentaphyllous, or five-leaved: applied to leaves, calyces, &c. as the flower-cup of the Ranuncu-

Aus Others is:

Pentapelic Rum. See Pentaneuron.

Penta Tomem. (From πεινπε, five, and τεμνω, to cut: so called because its leaves are divided into five segments. Cinquetoil. The Potentials reptans.

PENTO ROBUS. From Entre, five, and opolog, the wood-pea; so called because it has five seeds resembling the wood-pea.) The herb peony. See Paonia

PEONY. See Paonia.

PEPA'NSIS. (From wevalve, to concoct.) Peras. The maturation or concoction of humours.

PEPA'NUS. The same as pepansis.

PEPA'STICA. (From wevalve, to concoct.) Di Pepas-

(From ωεπαινω, to concoct.) Diges-

PEPERINE. A fatty resinous matter, obtained by Pelletier from black pepper, by digesting it in alkohol, and evaporating the solution.

and evaporating the solution.

PETITA NEW. St. Ignatius's bean.

PETITON. (From merko, the herb devil's-milk.)

Peplos: Peplus. The Euphorbia peplus.

PEPO. (From merro, to ripen.

I. In botanical definitions, a fleshy succulent pericarplum, or seed-vessel, the seeds of which are inserted. into the sides of the fruit.

From its figure, the pepo is called,

1. Globosus; as in Cucumis colocynthus.

2. Oblongus; as Cucumis sativ is.

2. Othongus; as Cucumis sativis.
3. Lageneformis; as Cucumis liexuosus.
4. Carratus; as Cucumis flexuosus.
5. Nodosus; as Cucumis melopepo.
6. Fuscirormis; as Cucumis anguria.
7. Echinatus; as Cucumis anguria.
8. Verrucosus; as Cucumis astivus.
9. Scaber, as Cucumis sativus.

PEPPER. See Piper nigrum. Pepper, black. See Piper nigrum. repert, auch. See Piper migrum.
Pepper, Guanca. See Capsicum annuum.
Pepper, Jamaica. See Myrtus pimenta.
Pepper, long. See Piper longum.
Pepper, poorman's. See Polugonum hydropiper.
Pepper, wall. See Sedum aere.
Pepper, actor See Polugonum hydropiper.

Pepper, wall. See Sedum acre.
Pepper, cuter See Polygonum hydropiper.
PEPPERMINT See Mentha piperita.
PEPPERWORT. See Lepidium iberus.
PE PTIC. Pepticus; from wexro. to ripen.) That which promotes digestion, or is digestive.
PERACUTE. Very sharp. Diseases are thus called when very severe, or aggravated beyond measure; as subacute is applied to such as are not very severe.

II. See Cuarbita.

sure; as subacute is applied to such as are not very acute, or so severe as they generally are.

PERCHLORIC ACID. Acidum perchloricum.

Oxychloric acid. If about 3 parts of sulphuric acid be poured on one of chlorate of potassa in a retort, and after the first violent action is over, heat be gradually applied, to separate the deutoxide of chlorine, a saline mass will remain, consisting of bisulphate of potassa and perchlorate of potassa. By one or two crystallizations, the latter salt may be separated from the former. It is a neutral salt, with a taste somewhat similar to It is a neutral sait, with a taste somewhat similar to the common murrate of petassa. It is very sparingly soluble in cold water, since at 60°, only 1-55th is dissolved; but in boiling water it is more soluble. Its crystals are elongated octahedrons. It detonates feebly when triturated with sulphur in a mortar. At the heat of 412°, it is resolved into oxygen and muriate of potassa, in the proportion of 46 of the former to 54 of porassa, in the proportion of 20 of the former of 30 the latter. Sulphuric acid, at 250°, disengages the perchloric acid. For these facts science is indebted to Count Von Stadion. It seems to consist of 7 primes of oxygen, combined with one of chlorine, or 7.0 + 4.5. Sir H. Davy. The other perchlorates are not known.

Mr. Wheeler descubes an ingenious method which

but where the escapes an ingenious method wine the employed to present ethoric and from the chlorate of potassa. He mixed a warm solution of this salt with one of fluosilicie acid. He kept the mixture moderately hot for a few minutes, and to ensure the perfect decomposition of the salt, added a slight excess of the caid. fect decomposition of the salt, added a slight excess of the acid. Aqueous solution of ammonia will show, by the separation of silica, whether any of the fluori-ncic acid be left after the decomposition of the chlo-rate. Thus we can effect its complete decomposition. The mixture becomes turbid, and fluosilicate of po-tassa is precipitated abundantly in the form of a gela-tinous mass. The supernatant liquid will then con-tain nothing but chlora cid, contaminated with a small quantity of fluosilicic. This may be removed by the cantions addition of a small quantity of solution by the cautious addition of a small quantity of solution by the cautious addition of a small quantity of solution of chlorate. Or, after filtration, the whole acid may be neutralized by carbonate of barytes, and the chlorate of that carth, being obtained in crystals, is employed to procure the acid, as directed by Gay Lussac. PERCIVAL, Thomas, was born at Warrington, in 1740. He studied for three years with great assiduity,

at Edinburgh: then came to London, and was chosen a Fellow of the Royal Society; after which he visited different places on the Continent, and took his degree at Leyden. In 1767, he settled at Manchester, and continued there till the period of his death, in 1804, in the unremitting exercise of his medical duties. Dr. Percival possessed, in an eminent degree, those moral and val possessed, in an eminent degree, those moral and intellectual endowments, which are calculated to form a distinguished physician. He has been well characterized as an author without vanity, a philosopher without pride, a scholar without pedantry, and a Christian without guile. His earlier inquiries were directed to medical, chemical, and philosophical subjects, which he pursued with great judgment, combining the cautious but assiduous use of experiment with acientific observation, and much literary research. with scientific observation, and much literary research.
His papers were published collectively, under the title
of "Essays, Medical and Experimenta," in three volumes: which have passed through many editions, and obtained him considerable reputation. His subsequent publications were of a moral nature, and originally conceived for the improvement of his children. But his last work, entitled "Medical Ethics," which appeared last work, entitled "Medical Education," in 1883, is adapted for the use of the profession, and will form a lasting monument of his integrity and wisdom. He court build also numerous papers on vari-

ous subjects to the Memoirs of the Literary and Philoous subjects to the actions of the interary and time-sophical Society of Manchester, which he had been mainly instrumental in establishing, and which did not cease to maintest a grateful sense of his merits, by the continued appointment of him to the presidency

PERCOLATION. (Percolatio, strained through; from per, through, and colo, to strain.) It is generally applied to animal secretion, from the office of the glands being thought to resemble that of a strainer in transmitting the liquors that pass through them

PERDE TUM. In Paracelsus it is the root of skirret,

or Sium sisterum.

or Sum sisterin.

Perfor crem. (From week, a partridge: so called hecause partridges were said to feed upon it.) The Parreturn afficiently, or pelitony of the wall.

PERENNIAL. See Paramis.

PERENNIA. Berenma: lasting for years: applied.

to plants in opposition to those which live only one or two years; thus the elm, oak, fir, &c. are perennial.

two years; thus the elm, oak, fir, see are perennial. Perennial worm-grass. See Spigetia.

PERFORMAN. (From were to dig through.) The perforating part of the trepan.

PERFOLIAYTA. From per, and folium: so called because the leaves surround the stem, like those of a cabbage! See Buyleweam perfolation.

PERFOLIAYTS. (From per, through, and folium, a leat.) Perfoliate: applied to leaves when the stem runs through them, as in Buylewrum rotandifolium, and Chlora perfolation. ns through them, and Chlora perfoliata.
PERFORANS. See Flexor profundus forans.
PERFORANS. See Flexor PROFUNDUS. See Flexor

longus digitorum pedis profundus perforans.
Perforans, seu flexon Terrii internodii digitorum pedis. See Flexor longus digitorum pedis

profundus perforans. PERFORANS, VULGO PROFUNDUS. See Flexor pro-

fundus perforans.

PERFORATA. (From perforo, to pierce through:
so called because its leaves are full of holes.) See Hypericum. PERFORA'TUS.

See Flexor brevis digitorum

Pedis, and Flexor sublimis perforatus.
Perforatus, seu flexor secundi internodii di-GITORUM PEDIS. See Flexor brevis digitorum pedis perforatus sublimis.

PERIA MMA. (From wegianto, to hang round.) annulei, or charm, which was hung round the neck to

prevent infection

PERIA NTHIUM. (From  $\pi cot$ , and  $a\nu\theta o\varsigma$ , a ower.) The calvx property and commonly so called, Hower. The cary property and makes a part of the flower, as the five green leaves which encompass a rose, including their urn-shaped base; the tubular part compactioning the scales in the pinks, or the globular scaly cup in Centaurea. The tulip is a naked flower, scaly cup in Centaurea. The tulip is a naked flower, having no calyx at all. The perianth is of infinite variety of forms.

From its number of leaves, it is,

1. Monophyllous, formed of one only; as in Datura stramonium.

2. Diphyllous; as in Papaver rheas.

Triphyllous; as in Canna indica.

4. Tetraphyllous; as Lunaria annua 5. Pentaphyllous; as Ranunculus. From the division of its edge,

1. Undivided; without any irregularity; as in the

female of the Quercus robur.

2. Partite, or divided almost to the base; hence biartite or bilabeate, in Salvia officinalis; tripartite, in Stratiotes aloides: quadripartile, in Enothera biennis: quinquepartite, in Nerium oleander; duodecempartite, in Sempervivum tectorum.

3. Cloven, cut as it were to the middle only; hence. bifd, in Adoxa moschatellina; trifid, in Asarum canadeuse; quinquefid, in Esculus hippocastanum.

4. Dentate, in Marrubium vulgare; quinque dentate,

in Cucumis and Cucurbita, the female flowers.

5. Serrate, in Centaurea cyanus.

From its figure,

1. Tubulosum; as in Datura stramonium.

2. Patens, with spreading leaflets; as in Borago officinalis.

3. Reflexum, its laciniated portions turned backward; as in Enothera biennis.

4. Inflatum, pouched and hollow; as in Cucubalus behen, and Physalis alkekengi in fruit.

From its colour

Coloratum, when of any other than green; as in Comphrena globosa.

From the disposition of the germen,

1. Superum, when the perianth and corols are above. Hence the remains are visible on the truit, as in roses, pears, &c.

2. Injerum, when below the germen; as in the poppy and water-lily.

From the number on each flower,

1. Simplex, when one; as in Nicotiana tabacum.

2. Duplex, double; as in Malva, Althea, Hibis-

cus, &c. 3. Calyculatum, or acutum, having a lesser one, or

scales down to the base; as in Dianthus caryophyllus.

Nullum, when wanting; as in tulips.

From its situation with respect to the fructification,

1. Permuthum flores, when belonging to the male.
2. P. fructus, when with the pastis.
3. P. fructificationis, containing both stamina and postils in the flower.

From its duration,

Caducum, falling off early; as in Papaver. Deciduus, very late; as in Tilia Europæa.

Peristens; as in Hyosciamus.

Murescens, withered, but yet conspicuous on the uit; as in Pyrus, Mespilus, &c.
 PERIBLE PSIS. (From περιβλεπω, to stare about.)

That kind of wild look which is observed in deluious

PERI'BOLE. (From toeoiballe, to surround.) word used frequently by Hippocrates in different senses. Sometimes it signifies the dress of a person; at others a translation of the morbine humours from the centre to the surface of the body.

PERIBRO'SIS. An ulceration or crossion, at the

corners or uniting parts of the eyelids. This disorder most frequently affects the internal commissure of the eyelids. The species are, I. Peridroxis, from the aerimony of the tears, as may be observed in the epi-

2. Peribrosis, from an agylops, which sometimes extends to the commissure of the eyelids.

PERICARDITIS. (From Series of the pericar

dium.; Inflammation of the pericardium. See Car

PERICA'RDIUM. (From week, about, and kapdia, the heart.) The membranous bag that surrounds the heart. Its use is to secrete and contain the vapour of the pericardium, which lubricates the heart, and thus

preserves it from concreting with the pericardium.

PERICATRICA. (From \$\pi\_0\$, about, and carpus, the wrist.) Medicines that are applied to the wrist.

PERICARPIALIS. Belonging to the pericarpium of plants; thus the spines of the Datura stramonium on the fruit, are called pericarpial.

PERICARPICM. The seed-vessel or covering of

the seed of plants, which is mostly membranous, leathery, woody, pulpy, or succulent. The membranous

1. Capsula. 5 Lomentum. Siliqua. Folliculus.

Samara. Legumen.

The woody seed-vessels are Strobulus. 9. Nux.

The fleshy ones, 10. Pomum. 12. Drupa.

II Pepo.

The succulent.

13. Bacca

The seed-vessel is extremely various in different plants, and is formed of the germen enlarged. an essential part of a plant, the seeds being frequently naked, and guarded only by the calyx, as is the case with the plants of the order Gymnospermia, also in the great class of compound flowers, Syngenesia

The use of the seed vessel is to protect the seeds till ripe, and then, in some way or other, to promote their dispersion, either scattering them by its elastic power, or serving for the food of animals, in the dung of which the seeds vegetate, or promoting the same end by various other means. The same organ which remains closed so long as it is juicy or moist, splits or flies asynder when dry, thus scattering the seeds in weather most favourable for their success. By an extraordinary provision of nature, however, in some annual species of Mesembryanthemum, natives of sandy deserts in

Africa, the seed-vessel opens only in raing weather; the lung.) Peripneum otherwise the seeds might, in that country, lie long exposed before they met with sufficient moisture to

vegetate

PERICHÆTIUM (From meor, about, and xai7n, a hair or bristle.) A scaly sheath, investing the fertile flower, and consequently the base of the fruit-stalk, of some mosses. In the genus Hypnum it is of great consequence, not only by its presence, constituting a part of the generic character, but by its differences in shape, proportion, and structure, serving frequently to discriminate species. Linneus appears by his manuscripts, Sir James Smith informs us, to have intended adding this to the different kinds of calyx, though it is not one

of the seven enumerated in his printed works.

PERICHO'NDRIUM. (From: ωερι; about, and χουόρος, a cartilage.) The membrane that covers a

PERICHRI'SIS. (From wept, about, and xpiw, to

anoint.) A limment.

Perichrista. (From περι, around, and χριω, to noint.) Any medicines with which the eyelids are

anomited, in an ophthalmia.

PERICLA'SIS. (From πρη, about, and κλαο, to break.) It is a term used by Galen for such a fracture of the bone as quite divides it, and forces it through the flesh into sight. Or a fracture with a great would, wherein the bone is faile bare.

PERICLY MENUM. (From περικλυζω, to roll round: so called because it twists itself round whatever is near it.) The honeysuckle or woodbine. See

PERICNE'MIA. (From περι, about, and κυημη, the tibia.) The parts about the tibia.

PERICRA'NIUM. (From περι, about, and κρανιον, the cranium.) The membrane that is closely connected to the bones of the head or cranium.

PERICRA'NIUM. (From περι, about, and δεσμος, a ligature.) 1. Parts about a ligament.

2. A suppression of urine, from stricture in the ure-

PERIDIUM. The name given by Person to the round membranous dry case of the seeds of some of

the angiosperm mushrooms.

PERIDOT. See Chrysolite.
Peri'dromos. (From ωερι, about, and δρομος, a The extreme circumference of the hairs of course.) the head.

PERIE RGIA. Περιεργία. Any needless caution or trouble in an operation, as περιεργος is one who despatches it with unnecessary circumstances: both the terms are met with in Hippocrates, and others of the Greek writers.

Perieste cos. (From περιισημι, to surround, or to guard.) An epithet for diseases, signs, or symptoms, importing their being salutary, and that they prognosti-

cate the recovery of the patient.

cate the recovery of the patient.

Page are the recovery of the patient.

An inaccurate description, or defineation.

In Vesalius, perigraphe signifies certain white lines and impressions, observable in the musculus rec tus of the abdomen.

PE'RIN. (From tompa, a bag.) A testicle.

FERIN. (From ωηρός, a one). A restance, Some explain a the Permawar, others say it is the Anus.

PERINÆOCETLE. (From ωςροναιον, the permawar, and καλη, a cupture.). A rupture in the perimawar.

PERINÆUM. (From ωςροναιον, to flow round, because that part is generally moist.) The space between

the anus and organs of generation.

PERINÆUS TRANSVERSUS. See Transversus pe-

PERINYCTIS (Perinyctis, idis, f.; from wear and rul, the night. Little swellings like nipples; or, as others relate, pustules, or pimples, which break out in the night.

PERIO'STEUM. (From wept, about, and ogeov, a bone.) The membrane which invests the external sur-face of all the bones, except the crowns of the teeth. It is of a fibrous texture, and well supplied with arte-ries, veins, nerves, and absorbents. It is called periora-The membrane which invests the external surnum, on the cranium; periorbita, on the orbits; peri-chandrium, when it covers cartilage; and peridesmum, when it covers ligament. Its use appears to be to distribute the versels on the external surfaces of bones.

PERIPHIMO'SIS. See Phimosis. PERIPLEUMO'NIA. See Pueumo

See Pneumonia.

PERIPNEUMO'NIA. (From ωερι, and ωνευμων,

Peripneumony, or inflammation of the

Peripheumonia notha. Bastard or spurious peripheumony. Practitioners, it would appear, do not all affix this name to the same disease; some affirming it to be a rheumatic affection of the respiratory muscles, while others consider it as a mild periphermony. It is characterized by difficulty of breathing, great oppression at the chest, with obscure pains, coughs, and occasionally an expectoration. Spurious peripheumony is sometimes so slight as to resemble only a violent catarrh; and, after the employment of a few proper remedies, goes off by a free and copious expectoration; but sometimes the symptoms run high, and an effusion of serum into the bronchia takes place, which destroys

PERIPYE'MA. (From περι, about, and woov, pus.) A collection of matter about any part, as round a tooth,

in the gums.

PERIARHE'XIS. (From περι, about, and ρηγνυμι, to break.) A breaking off, or a separation round about, either of corrupted bones, or of dead flesh.

PERIRRIGA. (From περιρροώ, to flow about.) A reflux of humours in a dropsical case to any of the

larger enunctories for its excretion.

Perisevent saus. (From περι, about, and κυφος, gibbous.) An meision made across the forehead, or from one temple to another, over the upper part of the os frontis. It was formerly made to cover a considerable inflammation or defluxion from the eyes.

Die inflammation of deliuxion from the eyes.

PERISTALTIC. (Peristalticus; from περιφελλω, to contract.) The vermicular motion of the intestines, by which they contract and propel their contents, is called peristaltic. A smilar motion takes place in the Fallopian tubes, after conception, by means of which the ovum is translated from the ovarium into the

Peristaphyll'nus. (From ωερι, about, and σαφυλη, the uvula.) A muscle which is connected with the nvula

Periste'rium. (From Εεριζερος, a pigeon: so called because pigeons covet it.)

PERISTOMA. See Peristomium.
PERISTOMIUM. (From rept, around, and 50µa, the month or opening of the capsule.) Peristoma.
The fringe-like membranous margin which, in many mosses, borders the ordine of the theer or capsule. It mosses, borders the orifice of the thee't or capsule. It is either simple or double, and consists either of sepa rate teeth, or of a plated or jagged membrane. The external fringe is mostly of the former kind; the inner, when present, of the latter. The number of teeth, remarkably constant in each genus and species, is either four, eight, sixteen, thirty-two, or sixty-four. On these Hedwig and his followers have placed great de-

PERISTRO'MA. (From TEPISUPELVUW, to strew about.)

roperly signifies any covering. PERISY STOLE. (From περισελλω, to compress.) The pause or time between a contraction and dilatation of the heart.

Perite rion. (From ωερι, and τηρεω, to preserve.)

The perforating part of the trepan.

PERITON ECONE XIS. (From περι Jovacov, the peritonaum, and ρησσω, to break.) A bursting of the peri-

PERITONÆUM. (From περιτεινω, round.) A strong simple membrane, by which all the viscera of the abdomen are surrounded. It has an exceedingly smooth, exhaling, and moist internal surface. Outwardly, it is every where surrounded by cellular substance, which, towards the kidneys, is very loose and very fat; but is very short at the lower ten-don of the transverse muscles. It begins from the diaphragm, which it completely lines, and at the last fleshy fibres of the ribs, and the external lumbar fibres, it completes the septem, in compaction with the pleura, with which it is continuous through the various interwith which it is commons along the various intervals of the diaphragm. Posteriorly, it descends before the kidneys; anteriorly, behind the addominal muscles. It dips into the pelvis from the bones of the pubes, passes over the bander, and descends behind; and begin approximation against the surface of the publisher and the period of the period beginning and the period of the pe and being again carried backwards at the entrance of the urceture, in two lunar folds, if rejons upon the intes-tinum rectum that part of itself which invests the long, and in this situation its before the rectum. The cellular texture, which covers the peritonaum on the

outside, is continued into sheaths in very many places; ; round tendon passes through the groove in the malled-Offisials, its continued into success in very many piaces; of which, one receives the testicle on each side, another the iliac vessels of the pelvis, viz. the obstructoria, those of the penis and bladder, and the aorta, and, as cending to the breast, accompanies the esophagus and vertebræ; by means of which, there is a communicavertebra: by means of which, there is a communica-tion between the whole body and the peritomeun, well known in dropsical people. It has various prolonga-tions for covering the viscera. The shorter productions of this membrane are called ligaments; and are formed by a continuous reduplication of the peritonaum, receding from its inner surface, enclosing cellular substance, and extending to some viscus, where its plates stance, and extending to some viscus, where its plates separate, and, having diverged, embrace the viscus; but the intermediate cellular substance always accompanies this membranaceous coat, and joins it with the true substance of the viscus. Of this short kind of production, three belong to the liver, one or two to the spleen, and others to the kidneys, and to the sides of the uterus and vagina. By these means, the tender sub-stance of the viscera is defended from injury by any stance of the viscera is detended from injury by any motion or concussion, and their whole mass is prevented from being misplaced by their own weight, and from injuring themselves, being securely connected with the firm sides of the peritoneum.

PERITONI'TIS. (From weptrovat, the peritoneum.) PERITORI 115. (From expressed, the peritons unit) An inflammation of the peritonseum. A genus of disease in the Class Pyrexia, and Order Phlegmasia, of Cullen, known by the presence of pyrexia, with pain in the abdomen, that is increased when in an erect positive property of the proper tion, but without other proper signs of inflammation of the abdominal viscera. When the inflammation attacks the peritonæum of the viscera, it takes the name of the viscus; thus, peritonitis, hepatitis, peritonitis intestinalis, peritonitis omentalis, or epiploitis, or omen-

titis, peritonitis mesenterii, &c.
All these Dr. Cullen considers under the general head of peritonitis, as there are no certain signs by which they can be distinguished from each other, and the method of cure must be the same in all. He however distinguishes three species.

1. Peritonitis propria; when the peritoneum, strictly so called, is inflamed.

2. Peritonitis omentalis. Omentitis. Epiploitis, when the omentum is affected.

Peritonitis mesenterica, when the mesentery is inflamed.

Perizo'ma. (From περιζωννυμι, to gird round.) This term strictly signifies a girdle; but by Hildanus, and some other chirurgical writers, it is applied to those instruments for supporting ruptures, which we com-monly call trusses. Some also express by it the diaphragm. PE'RLA.

(Ital. and Span. perl, Welch, perlen,

PE'RLA. (Ital. and Span. perl, Welch, perten, Germ.) See Margarita.

Perlate acid. A name given by Bergman to the acidulous phosphate of soda, Haupt having called the phosphate of soda Sal mirabile perlatum.

PE'RNIO. A kibe or chilblaim. A species of crythema, of Cullen. Chilblains are painful inflamments. matory swellings, of a deep purple or leaden colour, to which the fingers, toes, heels, and other extreme parts of the body are subject, on being exposed to a severe degree of cold. The pain is not constant, but rather pungent and shooting at particular times, and an insupportable itching attends. In some instances the skin remains entire, but in others it breaks and discharges a thin fluid. When the degree of cold has been very great, or the application long continued, the parts affected are apt to mortify and slough off, leaving a foul ill-conditioned ulcer behind. Children and old people are more apt to be troubled with chilblains than those of a middle age; and such as are of a scrofulous habit are remarked to suffer severely from them, PE'RONE. (From πειρω, to fasten: so called because it fastens together the tibia and the muscles.)

The fibula

PERONE'US. (Peroneus, περουαιος; from perone, the fibula.) Belonging to the fibula.

PERONEUS ANTICUS. See Peroneus brevis. PERONEUS BREVIS. This muscle is the peroneus secundus, seu anticus, of Douglas; the peroneus medius, seu anticus of Winslow; the peronaus secundus of Cowper; and petit-peroneo sus-metatarsien, of Dumas. It arises, by an acute, thin, and fleshy origin, from the anterior and outer part of the fibula, its fibres continuing to adhere to the lower half of that bone. Its gravity in the latter state is greater than that of water.

lus externus, along with that of the peroneus longus. after which it runs in a separate groove to be inserted into the upper and posterior part of the tubercle at the basis of the metatarsal bone that supports the little toe.

basis of the metatarsal bone that supports the little toe. Its use is to assist the personeus fongus.

PERONEUS LONGUS. This muscle, which is the peroneus primus, seu posterus, of Douglas; peroneus maximus, seu posterior, of Winslow; peroneus primus, of Cowper; and this peroneus primus, of Cowper; and this peroneus of Dounsa, is situated somewhat anteriorly along the outer side of the leg. It arises tendinous and fleshy from the external lateral part of the head of the tibia, and likewise from the upper anterior surface and outer side of the percase or fibula, its fibres continuing to adhere to the outer surface of the latter, to within three or four inches of the malleolus externus. It terminates in a long round tendon, which runs obliquely behind the malleolus internus, where it passes through a cartilaginous groove in common with the peroneus brevis, being bound down by an annular ligament. When it has reached the oscaleis, it quits the tendon of the peroneus brevis, and runs obliquely inwards along a groove in the oscuboides, under the muscles on the sole of the foot, to be inserted into the outside of the posterior extremity of the metatarsal bone that supports the great toe. Near the insertion of this muscle we find a small bursa mucosa. This muscle draws the foot outwards, and likewise assists in extending it.

PERONEUS MAXIMUS. See Peroneus longus. PERONEUS MEDIUS. See Peroneus brevis. PERONEUS POSTICUS. See Peroneus longus. PERONEUS PRIMUS. See Peroneus longus.

PERONEUS SECUNDUS. See Peroneus brevis.
PERONEUS TERTIUS. This is the name given by Albinus to a muscle which, by some writers, is called nonus Vesalii, or Vesalius's ninth muscle of the foot; but by most considered in the present day as a portion at the anterior, inferior, and outer part of the leg, along the outer edge of the last described muscle, to which it is intimately united. It arises fleshy from the anterior surface of the lower half of the fibula, and from the adjacent part of the interesseous ligament. Its fibres run obliquely downwards, towards a tendon which passes under the annular ligament, and then running obliquely outwards, it is inserted into the root of the metatarsal bone that supports the little toe. This muscle assists in

bending the foot.

PERPENDICULARIS. Applied to parts of plants, as the root of the Daucus carota, which goes straight down into the earth.

PERSICA. (From Persia, its native soil.) The peach. See Amygdalus persica.
PERSICA'RIA. (From Persica, the peach-tree: so called because its blassoms are like those of the peach.)

See Polygonum persicaria.

PERSICARIA MITIS. See Polygonum persicaria.

PERSICARIA MITIS. See Polygonum lydropiper.

PE'RSICARIA URENS. See Polygonum lydropiper.

PE'RSICUS IGNIS. A Carbuncle. Avicenna says, it

is that species of carbuncle which is attended with pustules and vesications.

[PERSIMMON. See Diospyros. A.]
PERSISTENS. Permanent. Applied to flower-cups remaining a long time after the flower, as that of the Hyosciamus niger.

Persi'stens febris. A regular intermitting fever, the paroxysms of which return at constant and stated

PERSONA'TA. (From persona, a mask; because, says Pliny, the ancient actors used to mask themselves with the leaves of this plant.) See Arctium lappa. PERSONATUS. Personate. A term applied to a monopetalous corolla, when irregular, and closed by a kind of palate; as in Antierthinum.

PERSPIRATION. Perspiratio. The vapour that is secreted by the extremities of the cutaneous arteries from the external surface of the body. It is distinguished.

from the external surface of the body. It is distinguished into sensible and insensible. The former is separated in the form of an invisible vapour, the latter so as rates in the form of all myispie vapour, the sates to car
to be visible in the form of very little drops adhering to
the epidermis. The secretory or gan is composed of the
extremities of the cutaneous arteries. The smell of the perspirable fluid, in a healthy man, is fatuous and animal; its taste manifestly salt and ammoniacal. In consistence it is vaporous or aqueous; and its specific For the most part it is yellowish, from the passage of the subcutaneous oil, and sebaceous matter of the subcutaneous glands.

Whatever form it takes, the liquid that escapes from the skin is composed, according to Thenard, of a great deal of water, a small quantity of acetic acid, of muriate of soda and potassa, a small quantity of earthy phosphate, an atom of oxide of iron, and a trace of annual matter. Berzelius considers the acid of sweat not the same as acetic acid, but like the lactic acid of Scheele. The skin exhales, besides, anoily matter, and

some carbonic acid.

Many experiments have been made to determine the quantity of transpiration which is formed in a given quantity of transparation which is formed in a given time, and the variations that this quantity undergoes according to circumstances. The first attempts are due to Sanctorius, who, during thirty years, weighed every day, with extreme care, and an indefatigable patience, his food and his drink, his solid and liquid excretions, and even himself. Sanctorius, in spite of his zeal and perseverance, arrived at results that were not very exact. Since his time, several philosophers and physicians have been employed on the same subject with more success; but the most remarkable labour in this way is that of Lavoisier and Seguin. These philosophers were the first who distinguished the loss that takes place by pulmonary transpiration from that of the skin. Segum shut himself up in a bag of gummed silk, tied above his head, and presenting an opening, the edges of which were fixed round his mouth by a mixture of turpentine and pitch. In this manner only, the humour of the polinonary transpiration passed into the air. In order to know the quantity, it was sufficient to weigh himself, with the bag, at the beginning and end of the experiment, in a very fine balance. By re-peating the experiment out of the bag, he determined the whole quantity of humour transpired; so that, by deducing from this the quantity that he knew had passed out from the lungs, he had the quantity of humour exhaled by the skin. Besides, he took into ac-count the food that he had used, his excretions solid and hquid, and generally all the causes that could have any influence upon the transpiration. By following this plan, the results of Lavoisier and Seguin are these

The greatest quantity of insensible transpiration (the pulmonary included) is 25.6 grains troy per minute: consequently, 3 ounces, 1 drachm, 36 grains, and 6 pounds, 4 ounces, 6 drachms, 24

per hour; and 6 pounds, 4 ounces, 6 drachms, 24 grains, in 24 hours.

2d, The least considerable loss is 8.8 grains per minute; consequently, 2 pounds, 2 ounces, 3 drachms, in 24 hours.

3d, It is during the digestion that the loss of weight occasioned by insensible transpiration is at its mi nimum.
4th, The transpiration is at its maximum imme

diately after dinner.

5th, The mean of the insensible transpiration is 14.4 grains per minute; in the mean 14.4 grains, 8.8 depend on cutaneous transpiration, and 5.6 upon the pulmonary.
6th, The cutaneous transpiration alone varies during

and after repasts.

7th, Whatever quantity of food is taken, or what-ever are the variations of the atmosphere, the same individual, after having augmented in weight by all the food that he has taken, returns, in 24 hours, to the same weight nearly that he was the day before, provided he is not growing, or has not eaten to excess

It is much to be wished that this interesting labour had been continued, and that authors had not limited their studies to insensible transpiration, but had ex

tended their observations to the sweat.

Whenever the humour of transpiration is not evaporated, as soon as it is in contact with the air, if appears at the surface of the skin in the form of a layer of liquid of variable thickness. Now, this effect may happen because the transpiration is too copious, or because of the diminution of the dissolvent force of because of the annotation of the dissolvent roles of the air. We perspire in an air hot and humid, by the influence of the two causes joined; we would perspire with more difficulty in an air of the same heat, but dry. Certain parts of the body transpire more co piously, and sweat with more facility, than others; such are the hands and the feet, the armylis, the groins, the brow, &c. Generally the skin of these parts receives a greater proportional quantity of blood;

and, in some people, the armpit, the sole of the foot, and the intervals between the toes, do not come so easily in contact with the air.

The sweat does not appear to have every where the same composition; every one knows that its odour is variable according to the different parts of the body. It is the same with its acidity, which appears much stronger in the armpits and leet than elsewhere.

The cutaneous transpiration has numerous uses in the animal economy, keeps up the suppleness of the epidermis, and thus favours the exercise of the tact and the touch. It is by evaporation along with that of the lungs, the principal means of cooling, by which the body maintains itself within certain limits of temperature; also its expulsion from the economy appears very important, for every time that it is diminished or suspended, derangements of more or less consequence follow, and many diseases are not arrested until a con-

siderable quantity of sweat is expelled.

Boside water, it cannot be doubted that carbon is also emitted from the skin; but in what state, the experiments hitherto made do not enable us to decide. Cruickshanks found, that the air of the glass vessel in which his hand and foot had been confined for an hour, contained carbonic acid gas; for a candle burned dimly in it, and it rendered lime-water turbid. And Jurine found, that air which had remained for some Jurine found, that air which had remained for some time in contact with the skin, consisted almost entirely of carbonic acid gas. The same conclusion may be drawn from the experiments of Ingenhousz and Milly. Trousest has lately observed, that air was separated copiously from a patient of his, while bathing.

Besides water and carron, or carbonic acid gas, the

skin emits also a particular odorous substance. every animal has a peculiar smell, is well known: the dog can discover his master, and even trace him to a distance by the scent. A dog, channed up several hours after his master had set out on a journey of some hundred miles, followed his footsteps by the smell. But it is needless to multiply the instances of this fact; they are too well known to every one. this smell must be owing to some peculiar matter which is constantly emitted; and this matter must differ somewhat, either in quantity or some other property, as we see that the dog casaly distinguishes the indivi-dual by means of it. Cruickshanks has made it probable, that this matter is an oily substance, or at least that there is an oily substance cuntted by the skin. that more is an ony sinstance control of the same the wore repeatedly, night and day, for a month, the same under waistcoat of fleecy hosiery, during the hottest part of the summer. At the end of this time, he always found an oily substance accumulated in considerable masses on the nap of the inner surface of the waistcoat, in the form of black tears. When rubbed on paper, it rendered it transparent, and hardened on it like grease. It burned with a white flame,

and left behind it a charry residuum.

Berthollet has observed the perspiration acid; and he has concluded, that the acid which is present is the phosphoric; but this has not been proved. Foureroy and Vauquelin have ascertained, that the scurf which collects upon the skins of horses, consists chiefly of phosphate of lime, and urea is even sometimes mixed

with it.

According to Thenard, however, who has lately en-According to I Behavi, noweely, with a steely circle deavoured more particularly to ascertain this point, the acid contained in sweat is the acetous: which, he likewise observes, is the only free acid contained in urine and in milk, this acid existing in both of them when quite fresh. His account of his examination of it is as follows:

The sweat is more or less copious in different individuals; and its quantity is perceptibly in the inverse ratio of that of the urine. All other circumstances being similar, much more is produced during digestion than during repose. The maximum of its production than during repose. The maximum of its production appears to be twenty-six grains and two-thirds in a minute: the minimum nine grains, troy weight. much interior, however, to the pulmonary transpiration; and there is likewise a great difference between their nature and manner of formation. The one is a product of a particular secretion, similar in some sort to that of the unipe; the other, composed of a great deal of water and carbonic acid, is the product of a combustion gradually effected by the atmospheric air.

The sweat, in a healthy state, very sensibly reddens litmus paper or infusion. In certain diseases, and par-

PER PER

then and the same of the storage of quantity, he describes the method he adopted for procuring it, which was similar to that of Cruickshanks

Human sweat, according to Thenard, is formed or fruman sweat, according to Thenard, is formed or a great deal of water, free accious acid, muriate of soda, an atom of phosphate of lime and oxide of rou, and an inappreciable quantity of animal matter, which approaches much nearer to gelatin than to any other

Perspiration varies in respect to, 1. The temperature of the atmosphere. Thus men have a more copious. viscid, and higher-coloured sweat in summer than in winter, and in warm countries than in colder regions. 2. Sex. The sweat of a man is said to smell more acrid than that of a woman. 3. Ave. The young are more subject to sweat than the aged, who, during the excessive heat of the summer, scarcely sweat at all 4. Ingosta. An alliacious sweat is perceived from eating garlick; a leguminous from pease; an acid frem acids; a field from animal food only; and a rancid sweat from fat foods, as is observed in Greenland. A long abstinence from drink causes a more acrid and long abstinence from drink causes a more acrid and coloured sweat; and the drinking a great quantity of cold water in summer, a limple and thin sweat. 5. Medicenes. The sweat of those who have taken musk, even moderately, and asafætida, or sulpha, smells of their respective natures. 6. Region of the body. The sweat of the head is greasy; on the forehead it is more aqueous; under the axille very unguinous; and in the interstrees of the logs, it is very fætid, forming in the most healthy man black ish sordes. 7. Discourses. In this result it varies were much in 7. Diseases. In this respect it varies very much in regard to quantity, smell, and colour; for the sweat of gouty persons is said to turn blue vegetable juices to a red colour. Some men also have a fueld sweat, others a sweat tinging their linen of a cerulean colour.

The uses of the incusable perspiration are, 1. To liberate the blood from superfluous animal gas, azote, and water. 2. To eliminate the noxious and hetero geneous excrements; hence the acrid, rancid, leguminous, or putrid perspiration of some men. 3. To moisten the external surface of the body, lest the epidermis, cutis, and its nervous papillæ, be dried up by the atmospheric air. 4. To counterbulance the suppressed pulmonary transpiration of the imags; for when it is suppressed, the cutaneous is increased; hence the nature of both appears to be the same.

The use of the sensible perspiration, or sweat, in a The use of the sensible perspiration, or swear, in a healthy man, is searcely observable, unless from an error of the non-naturals. Its first effect on the body is always prejudicial, by exhausting and drying it, although it is sometimes of advantage. I. Byssupplying a watery exerction: thus when the urine is deficient, the sweat is often more abundant. In this manner an aqueous diarrhoa is frequently cured by sweat 2. By eliminating, at the same time, any morbid er. Thus various miasmata are critically expelled, in acute and chronic diseases, with the sweat

penied, in acute and chind diseases, with the sweat.
PERTU'SSIS. (From per, much, and massis, cough.)
The hooping-cough. A genus of diseases in the class
Neuroses, and order Spasmi, of Cullen, known by a
convulsive strangulating cough, with hooping, returning by fits, that are usually terminated by a vointing;

and by its being contagious.

Children are most commonly the subjects of this disease, and it seems to depend on a specific contagion, which affects them but once in their life. The disease being once produced, the fits of coughing are often repeated without any evident cause : but, in many cases, the contagion may be considered as only giving the predisposition, and the frequency of the fits may depend upon various exciting causes, such as violent exercise, a full meal, the having taken food of difficult digestion, and irritation of the lungs by dust, smoke, or disagreeable odours. Emotions of the mind may likewise prove an exciting cause.

Its proximate or immediate cause seems to be a viscid matter or phlegm louged about the bronchia. trachea, and fauces, which sticks so close as to be expectorated with the greatest difficulty. Some have supposed it to be a morbid irritability of the stomach,

The hooping cough usuany comes on with a unhealty of breathing, some degree of thirst, a quick pulse, and other signi tebrile symptoms, which are succeeded by a houseness, cough, and difficulty of expectoration. These symptoms continue perhaps for a fortnight or more, at the end of which time the disease puts on its peculiar and characteristic form, and is now evident, as the cough becomes convulsive, and is attended with

a sound, which has been called a hoop.

When the sonorous inspiration has happened, the coughing is again renewed, and continues in the same congaing is again relieved, and common in an amount manner as before, fill either a quantity of mucus is thrown up from the longs, or the contents of the stomaca are evacuated by vomiting. The lit is then terminated, and the patient remains free from any other for some time, and shortly afterward returns to the amusements he was employed in before the fit, expresses a desire for food, and when it is given to him, takes it greedily. In these cases, however, where the attack has been severe, he often seems much tatigued, makes quick inspirations, and falls into a faint.

On the first coming on of the disease, there is little or

on expectoration; or if any, it consists only of thin mucus; and as long as this is the case, the fits of coughing are frequent, and of considerable duration; but on the expectoration becoming free and copious, the fits of coughing are less frequent, as well as of

shorter duration.

By the violence of coughing, the free transmission of blood through the lungs is somewhat interrupted, as likewise the fice return of the blood from the head, which produces that turgescence and suffusion of the face, which commonly attend the attack, and in some instances brings on a harmorrhage either from the nose

The disease having arrived at its height, usually continues for some weeks longer, and at length goes off gradually. In some cases it is, however, protracted for

several months, or even a year.

Although the hooping-cough often proves tedious, and is liable to return with violence on any fresh exposure to cold, when not entirely removed, it nevertheless is seidom fatal, except to very young children, who are always likely to suffer more from it than those of a more advanced age. The danger seems indeed always to be in proportion to the youth of the person, and the degree of fever, and difficulty of breathing, which accompany the disease, as likewise the state of debility which prevails.

It has been known in some instances to terminate in apoplexy and suffocation. If the fits are put an end to by vomiting, it may be regarded as a favourable symptom, as may likewise the taking place of a moderate and free expectoration, or the ensuing of a slight hæmorrhage from the nose or ears.

Dissections of those who die of the hooping-cough usually show the consequence of the organs of respiration being affected, and particularly those parts which are the seat of catarrh. When the disease has been long protracted, it is apt to degenerate into pulmonary consumption, asthma, or visceral obstructions, in which last case the glands of the mesentery are found in a

I and enlarged state

In the treatment of this disease it must be borne in mind, that in the early period palliative measures can only be employed; but when it continues merely from habit, a variety of means will often at once put a stop In the first stage in mild cases very little is required, except obviating occasional irritation, keeping the bowels regular, &c. But where it puts on a more serious character, the plan will differ accordingly as it is attended with inflammatory symptoms, or exhibits a purely spasmodic form. In the former case, if may be sometimes proper in plethoric habits to begin by a full bleeding, or leeches to the chest, if the patient be very young, then clear the bowels effectually, apply a blister, and exhibit antimonials, or squill, in nauseating doses, assisted perhaps by opium, to promote diaphoresis and expectoration. An occasional emetic, where the breathing is much oppressed with wheezing in when the disorder is more of the spasmodic character, some of these means may still be useful, as blisters, and

nauseating medicines, so far as the strength will admit; but the remedies of greatest efficacy are the narcoices, as opium, conium, &c. exhibited in adequate doses. In the chronic or habitual stage of the discuss, along the discussion of the chronic or habitual stage of the discuss, and not much of tims term may be abated. If I much mistaken, observes Dr. Thomas, "I he Board of Trade has, however, very lately, under the pression on the constitution, will occasionally succeed: but we chiefly rely on sedative and antispasmodic, or on tonic remedies, accordingly as there are marks of irritability, or of mere debility in the system. Of the former description, opium is perhaps the best, especially in conjunction with squill, given in a full dose at night, and in small quantities swallowed slowly from time to time during the day. Conium, asafætida, &c. may however occasionally answer better in particular constitutions. Among the tonics the cinchona is often highly efficacious, where no appearances of local disease attend; some of the metallic preparations also, par-ticularly sulphate of zinc, may be much relied upon. Sometimes stimulant applications to the chest, but still more certainly opiate frictions, will be found to cure this disorder. The same is very often accomplished by a change of air, indeed occasionally after the failure of most remedies. The cold bath also, where there is no local disease, may have an excellent effect; assisted by warm clothing, especially wearing some kind of fur over the chest. Fear and other emotions of the mind, strangury induced by the use of the lytta, &c. &c. rank also among the remedies of pertussi

Peruvian balsam. See Myroxylon peruiferum. Peruvian bark. See Cinchona. Peruvia'nus cortex. See Cinchona.

PERUVIANUS CORTEX FLAVUS. See Cinchona cordifolia

PERUVIANUS CORTEX RUBER. See Cinchona oblon-

PERVIGUAUM. (From per, much, and rigito, to watch.) Watching, or a want of sleep. See Figulance. PERVINCA. (From pervincio, to tie together.) So called because its stringy roots were used for binding substances together. See Vinca minor.

PES. (Pes, dis. m.; a foot.) The foot.
PES ALEXANDRING. See Anthemis pyrethrum.
PES CAPRE. Goat's foot, a species of Oxalis; also

a species of Convolvulus.

Species of Convolvatas. Pes catt. See Gnaphalium divicum. Pes colombinus. See Geranium rotundifolium. Pes hippocampi. The name of two columns at the

end of the fornix of the brain, which diverge posteriorly.

Pes Leonis. See Mehemilla.
Pes Tigris foot. A species of Ipomæa.
PESSARY. (Pessarium; from πεσσω, to soften.)
An instrument that is introduced into the vagina to

support the uterus.
PESTILENCE

A plague.
L. (Pestilentialis; from pestes, PESTILENTIAL.

PESTILENTIAL. (Posturitains; iroin postes, the plague.) An epidemic, malignant, and contagious disease, approaching to the nature of the plague. PESTILENTWORT. See Tussidago petusites. PESTILE The plague. A genus of disease in the class Pyrexiae, and order Exanthemata, of Cullen, characterized by typhus, which is contagious in the extreme, prostration of strength, bubges, and carbun-

cles, petechia, hamorrhage, and colliquative diarrhea.

By some writers the disease has been divided into three species; that attended with buboes; that attended with carbuncles; and that accompanied with petechas. This division appears wholly superfluous. Dr. Russel, in his claborate treatise on the plague, makes meation of many varieties; but when these have arisen, they seem to have depended in a great measure on the temperament and constitution of the air at the time the disease became epidemical, as likewise on the patient's habit of body at the time of his being attacked with it.

The plague is by most writers considered as the consequence of a pestilential contagion, which is propagated from one person to another by association, or by

coming near infected materials.

It has been observed, that it generally appears as early as the fourth or fifth day after infection; but it has not yet been ascertained how long a person who has laboured under the disease is capable of infecting others, nor how long the contagion may lurk in an unfavourable habit without producing the disease, and may yet be communicated, and the disease excited, in habits more susceptible of the infection. It has generally been suspected however that a quarantine of 40

It sometimes happens, that after the application of the putrid vapour, the patient experiences only a considerable degree of languor and slight headache for many days previous to a perfect attack of the disease: but it more usually comes to pass, that he is very soon seized with great depression of strength, anxiety, palpitions, syncope, stupor, giddiness, violent headache, and delirium, the pulse becoming at the same time very weak and irregular.

These symptoms are shortly succeeded by nausea. and a vomiting of a dark bilious matter, and in the further progress of the disease, carbuncles make their appearance; bubees arise in different glands, such as the parotid, maxillary, cervical, axillary, and inguinal; or petechia hamorrhagies and a colliquative diarrhea, ensue, which denote a putrid tendency prevailing to a great degree in the mass of the blood.

Such are the characteristic symptoms of this malignant disease, but it seldom happens that they are all to be met with in the same person. Some, in the advanced state of the disease, labour under buboes, others under carbuncles, and others again are covered with

The plague is always to be considered as attended The plague is always to be considered as attended with imminent danger, and when it prevailed in this country about 200 years ago, proved fatal to most of those who were attacked with it. It is probable, however, that many of them died from want of care and proper nourishment, as the infected were forsaken by their nearest friends; because in Turkey and other countries, where attention is paid to the sick, a great

When the disease is unattended by buboes, it runs its course more rapidly, and is more generally fatal, than when accompanied by such inflammations. The ear het they appear, the milder usually is me disease. When they proceed kindly to suppuration, they always prove critical, and ensure the patient's recovery. A gentle diaphoresis, arising spontaneously, has been known in many instances likewise to prove critical.

known in many instances likewise to prove critical. When carbinutes show a disposition to gangrene, the event will be fatal. Petechig, hæmorrhages, and colliquative diarrhea, denote the same termination. Dissections of the plague have discovered the gall-bladder full of black bile, the liver very considerably enlarged, the heart much increased in size, and the lungs, kidneys, and intestines beset with carbinuteles. They have likewise discovered all the other appearances of mutil dever.

ances of putridiever.

PETALUM. A petal. The name of the coloured leaflets of the corolla of a flower. The great variety of form, duration, &c. of the petals, give rise to the

From their duration,

1. Petalo patentia; as in Rosa canina.

2. Patentissima; very spreading.
3. Erecta; as in Allium nigrum.
4. Conniventia; as in Rumex.
5. Distantia; as in Cucubalus bacciferus.
From the figure of the border,

6. Acuminata; as in Saxifraga stellaris. Setacea; as in Tropaolum minus

Apice coherentia; as in Vitis vinifera.
Apice reflexa; as in Anemone pratensis
Aristata; as in Galium aristatum.
Befida; as in Silene nocturna.

10.

Bipartita : as in Alsine media Biloba; as in Geranium striatum

Biloba; as in Geramum striatum Carinata; as in Carum carui. Comenva; as in Ruta graveolens. Cordata; as in Sium sedinum. Horsula; as in Menyanthes trifoliata. Ciliata; as in Asclepias undulata.

Crenata; as in Linum usitatissimum Dentata; as in Silone lucitanica. Servata; as in Dianthus arboreus.

Cuneiforma; as in Epidendrum cordatum.

Emarginota; as in Allium roseum.

Indexa; as in Pumpinella.

Reflexa; as in Pancratium zelanicum.

26. Involuta ; as in Anethum. 27. Integra; as in Nigella arvensis: 28. Laciniata; as in Reseda.

29. Lanceolata; as in Narcissus minor.

30. Linearia; as in Tussilago farfara.

31. Lineata; as Scilla lucitanica.
32. Punctatu; as in Melanthium capense.

33. Muculata; as in Digitalis purpurea.

34. Oblonga; as in Citrus and Hedera. Obtong a, as in Tropæolum majus.
 Obtusa; as in Tropæolum majus.
 Orata; as in Allium flavum.
 Plana; as in Pancratium maritimum.

38. Subrotunda; as in Rosa centifolia.
38. Subrotunda; as in Rosa centifolia.
39. Truncata; as in Hura crepitans.
40. Coronata; as in Nerrium oleander.
The claw of the petal is very long, in Dianthus and Saponada; and connate, in Malva sylvestris and

PETALIFORMIS. Petaliform, like a petal; applied

to the stigma of the Iris germanica.

PETALITE. A mineral found in the mine of Uts. in Sweden, interesting from its analysis having led to

in Sweets, interesting from its analysis natural cattle knowledge of a new alkali.

PETALO DES. (From πεταλον, a leaf, or thin scale.) This term is by Hippocrates applied to a prine which hath in it flaky substances resembling

PETASITES. (From πετασος, a hat: so named because its leaves are shaped like a hat.) See Tussi-

lago petasites. PETE'CHIA.

(From the Italian petechio, a fleabite, because they resemble the bites of fleas.) A red or purple spot, which resembles a flea-bite.

PETIOLATUS. Petiolate: applied to leaves which are formed with a stalk, whether long or short, simple or compound, as most leaves are: as in Verbascum nigrum, &c.

PETIOLUS. (From pes, a foot.) A petiole. The footstalk or leafstalk of a plant. The term is applied exclusively to the stalk of the leaf.

It is distinguished into the apex, which is inserted into the leaf, and the base, which comes from the stem

From its figure it is called,

1. Linearis, equal in breadth throughout; as in

Citrus medica.

2. Alatus; as in Citrus aurantium.
3. Appendiculatus, when furnished with leaflets at its base; as in Dipsacus pilosus.

4. Teres, round throughout; as in Pisum sativum.

5. Semiteres, round on one side, and flat on the other.
6. Triquetrus, three-sided.

Angulatus, having angles.

8. Cuniliculatus, channelled to its very base, where it is sometimes greatly dilated and concave; as in Angelica sylvestris.

Compressus, compressed towards its base; as in Populus tremula. 10. Clavatus, thicker towards the apex; as in Caca-

lia suaveolens.

11. Spinescens, becoming a spine after the fall of the leaf; as in Rhamnus catharticus.

From its insertion the petiolus is called,

12. Insertus, as in most trees, and the Pirus com-

Articulatus; as in Oxalis acetocella.
 Adnatus, adhering so to the stem, that it cannot

be displaced without injuring the bark.

15 Decurrens, adhering at its base, and going some little way down the stem; as in Pisum ochrus.

16. Amplexicaulis, surrounding the stem at its base;

as in Senecio hastatus.

17. Vaginans, surrounding the stem with a perfect

tube; as in Canna indica. From its length with respect to the leaf, it is said to be brevissimus, when much shorter, and longissimus, when longer; as in Anemone hepatica, and Geranium

terebinthinatum. It is distinguished also into simple, when not divided;

As in most leaves: and compound, when divided into lateral branches; as in all compound leaves. PETIT, JOHN LEWIS, was born at Paris in 1674. From his childhood he displayed a remarkable degree of penetration, which gained him the attachment of M. de Littre, a celebrated anatomist, who resided in his father's house. He took a pleasure, even at the tions of the chest.

age of seven, in witnessing the process of dissection: and being allowed to attend the demonstrations of that gentleman, he made such progress, that when scarcely twelve years old, the supermendence of the anatomi-cal theatre was confided to him. He afterward studied surgery, and was admitted master at Paris in 1700 He became, as it were, the oracle in his profession in that city, and his fame extended throughout Europe. He was sent for to the kings of Poland and Spain, whom he restored to health: they endeavoured to retain him near their persons by liberal offers, but he preferred his native place. He became a member of the Academy of Sciences; and was appointed Director of the Academy of Surgery, and Censor and Royal Pro-fessor at the schools. He was likewise chosen a Fel-low of the Royal Society of London. He died in 1750. Many memoirs were communicated by him to the French academies. His only separate publication was a Treatise on the Diseases of the Bones, which passed through several editions, but involved him in much controversy. Some posthumous works, relating to surgical diseases and operations, likewise appeared under his name.

PETRA PIUM. (From petra, a rock, and apium, pars-ley: so called because it grows in stony places.) See Bubon macedonicum.

PETRILE'UN. (From πετρα, a rock, and ελαιον, il.) Anoil or liquid bitumen which distils from rocks. PETRIFACTIONS. Stony matters deposited either

in the way of incrustation, or within the cavities of organized substances, are called petrifactions. Calca reous earth being universally diffused and capable of solution in water, either alone, or by the medium of carbonic acid or sulphuric acid, which are likewise very abundant, is deposited whenever the water or the acid becomes dissipated. In this way we have incrust-ations of limestone or of selectic in the form of stalactites or dropstones from the roofs of caverns, and in various other situation

The most remarkable observations relative to petri-

factions are thus given by Kirwan:—

1. That those of shells are found on, or near, the surface of the earth; those of fish deeper; and those of wood deepest. Shells in specie are found in immense quantities at considerable depths.

2. That those organic substances that resist putre-In those organic substances that resist pure-faction most, are frequently found petrified; such as shells, and the harder species of woods: on the con-trary, those that are aptest to putrefy are rarely found petrified; as fish, and the softer parts of ani-

3. That they are most commonly found in strata of still more rarely in gypsum; but never in gneiss, granite, basaltes, or shorle; but they sometimes occur among pyrites, and ores of iron, copper, and silver and almost always consist of that species of earth, stone, or other mineral that surrounds them, sometimes of silex, agate, or carnelion.

4. That they are found in climates where their originals could not have existed.

5. That those found in slate or clay are compressed

and flattened.

PETRO'LEUM. (From petra, a rock, and oleum, oil.) The name of petroleum is given to a liquid bituminous substance which flows between rocks, or in different places at the surface of the earth. See Bi-

["In the United States it is found, sometimes abundantly, in Kentucky, the western parts of Pennsylvania, and in New-York, at Seneca Lake, &c. It usually floats on the surface of springs, which, in many cases, are known to be in the vicinity of coal. It is sometimes called Seneca or Genesee oil."—Cleav. Min. A.]

PETROLEUM BARBADENSE. Barbadoestar. This is chiefly obtained from the island of Barbadoes, and is sometimes employed externally in paralytic diseases. See Bitumen.

PETROLEUM RUBRUM. Oleum gabianum. Red pe-troleum. Aspecies of rock-oil of a blackish-red colour, of thicker consistence, with a less pene rating and more of unexer consistence. With a less pene samigant more disagreeable smell than the other kinds of petroleum. It abounds about the village of Gabian in Languedoc. It is a species of bitumen. See Bitumen.

Petroleum sulphuratum. A stimulating balsamic remedy given in coughs, asthmas, and other affections of the chest.

PETROPHARYNGE'US. A muscle which arises in the | speaks of the pezize, as the Greek appellation of such petrose portion of the temporal bone, and is inserted into the pharynx.

PETRO-SALPINGO STAPHYLINUS. See Levator valati PETROSELINUM. (From πετρα, a rock, and στλινον, parsley.) See Aprum petroselinum.
PETROSELINUM MACEDONICUM. See Bubon.

PETROSELINUM VULGARE. See Apium petroseli-

PETRO'SILEX. Compact felspar. A species of coarse flint, of a deep blue or yellowish green colour. It is interspersed in veins through rocks; and from this

Greunstance derives its name.

["Prtustze. This would probably be arranged under the common variety of felspar, had it not received some additional importance from its use in the manufacture of porcelain. It appears, in fact, to be that variety of felspar, which the Chinese call Pe-

"It is nearly or quite opaque, and its colour is usu-ally whitish or gray. It has in most cases less lustre than common felspar. Its fracture is lamellar, although its masses often have a coarse granular structure

"It most frequently occurs in beds, and usually contains a little quartz. Its powder is said to have a

slightly saline taste.

"It is employed in the enamel of porcelain ware, and enters, in certain proportions, into the composition of the porcelain itself. Any variety of felspar, which contains very little or no metallic oxide, would, undoubtedly, answer the same purpose."—Cleav.

Man. A.]
PEUCE DANUM. (From πευκη, the pine-tree: so called from its leaves resembling those of the pine-tree.)

1. The name of a genus of plants. Class, Pentan-Order, Digunia.

dria; Order, Digynia.

2. The pharmacopoial name of the hog's fennel.

See Peucedanum officinale.

The systematic name of Prevendanum officinate.
Prevendanum officinate.
The systematic name of the hog's fenuel. Marathrum sylvestre: Marathruphyllum; Pinastellum; Faniculum porcinum. The plant which bears these names in the pharmacopacias is the Peacedanum:—folius quanquepartitis, filtformatic than the systematic part; it has a strong fixed smell, somewhat resembling that of suburgeous selluments. that of sulphureous solutions, and an acrid, unctuous, bitterish taste. Wounded when fresh, in the spring or autumn, particularly in the former season, in which the root is most vigorous, it yields a considerable quantity of yellow juice, which soon dries into a solid guinnty resin, which retains the taste and strong Smell of the root. This, as well as the root, is recommended as a nervine and anti-hysteric remedy.

PEUCEDANUM SILAUS. The systematic name of the meadow saxifrage. Saxifraga vulcaris, Saxifraga anglica; Hippomarathrum; Faniculum erraticum. English or meadow saxifrage. The roots, leaves, and seeds of this plant have been commended as aperients, diuretics, and carminatives; and appear, from their aromatic smell, and moderately warm, pungent, bitterish taste to have some claim to these virtues. They are

rarely used.

PEWTER. A compound metal, the basis of which is tin. The best sort consists of tin alloyed with about a twentieth or less of copper or other metallic bodies. as the experience of the workmen has shown to be the most conducive to the improvement of its hardness the most conductive to the improvement of its hardness, and colour, such as lead, zinc, bismuth, and autimony. There are three sorts of pewter, distinguished by the names of plate, trifle, and ley-pewter. The first was formerly much used for plates and dishes; of the second are made the pints, quarts, and other measures and the plate of the properties of the second are made the pints, quarts, and other measures. of beer; and of the ley-pewter, wine measures and large vessels.

The best sort of pewter consists of 17 parts of anti-mony to 100 parts of tin; but the French add a little copper to this kind of pewter. A very fine silver-looking metal is composed of 100 pounds of tin, eight of antimony, one of bismuth, and four of copper. On the contrary, the ley-pewter, by comparing its specific gravity with those of the mixtures of tin and lead, must contain more than a fifth part of its weight of

PEYE'RI GLANDULÆ. Peyer's glands. glands situated under the villous coat of the intestines
PEZIZA. (Somewhat altered from the Greek πεικη,
which is derived from τος, the sole of the foot. Pliny

fungi, as grow without any stalk or apparent root.) The name of a genus of plants. Class, Cryptogamia; Order, Fungi.

Order, Fungi.
PEZIZA AURICULE. Auricula juda; Fangus sambucinus; Agaricus auricula jorma. Jew's ears. A membranacrous fungus. Peziza concavarugosa auri-farmis, of Linnaeus, which resembles the human ear. Its virtues are adstringent, and when employed by some its internal use is not thought safe, it is made than all control of the property of the pr into a decoction, as a gargle for relaxed sore throats.

PHACIA. (Φακια, a lentil.) A cutaneous spot or blemish, called by the Latins lentige and lenticula. PHÆNO MENON. (From φαινω, to make appear.) An appearance which is contrary to the usual process

PHAGEDÆ'NA. (From φαγω, to eat.) A species f ulcer that spreads very rapidly.
PHAGEDÆNIC. (Phagedwavens; from φαγω, to

eat.) 1. An ulceration which spreads very rapidly.

2. Applications that destroy fungous flesh.

2. Applications that destroy rungous finesh. Phalacrofts. (From φαλακρος, bald.) A surgical instrument, with a blunt, smooth top; as a probe Phala No. The plural of Phalama. Phalacrofts: (From φαλαγξ, a row of soldiers.) I. An affection of the eyelids, where there are two or

more rows of hairs upon them.

2. A morbid inversion of the cyclids.
PHATANX. (Phalanz, gis. f.; from φαλαγξ, a battalion.) The small bones of the fingers and toes, which are distinguished into the first, second, and third phalan

PHA'LARIS. (From φαλος, white, shining: so named from its white shining seed, supposed to be the φαλαρος of Dioscordies.) The name of a genus of plants. Class, Trundria; Order. Diggnia. Canary grass

PHALARIS CANARIENSIS. Canary grass. of this plant is well known to be the common food of canary-birds. In the Canary islands, the inhabitants grind it into meal, and make a coarse sort of bread

PHA'LLUS. (Named after the φαλλος of the Greeks, to which it bears a striking resemblance.) The name of a genus, of the Order Funga; Class, Crypto-

PHALUS ESCULENTUS. The systematic name of morel lungus. It grows on moist banks and wet pastures, and springs up in May. It is used in the same manner as the truffle, for gravies and stewed dishes, but gives an inferior flavour.

PHALICS IMPUTICES. The systematic name of the plant called Fengus phallondes, stink-horns. A fungus which is, at a distance, intolerably fetid, so that it is oftener smelled than seen, being supposed to be some carrion, and therefore avoided; when near it has only the pungency of volatile alkali. It is applied to allay pain in the limbs

PHANTA SMA. (From φανταζω, to make appear.) Imagination.

PHA'RICUM. (From Pharos, the island from whence

it was brought.) A violent kind of poison.

PHARMACEU'TIC. (Pharmacouticus; from φαρμακευω, to exhibit medicines.) Belonging to pharmacy.

PHARMACOCHY'MIA. (From фарцакоv, a medicine, and varia, chemistry.) Pharmaceutic chemistry, or that part of chemistry which respects the prepara

or that part of chemistry which respects the prepara-tion of medicines.

PHARMACOLITE. Native arseniate of lime.

PHARMACOPC'IA. (From φαρμακον, a medicine, and ποιεω, to make.) A dispensatory, or book of directions for the composition of medicines approved of by medical practitioners, or published by authority.

The following are the most noted, viz.

P. Amstelodamensis.

P. Argentoratensis.

P. Hajniensis.

P. Londinensis.
P. Norimbergensis.
P. Parisiensis. P. Augetoratensis. P. Bateana

P. Brandenburgensis. P. Ratisbonensis. P. Brandenburgica. P. Regia.

PHARMACOPO'LA. (From φαρμακον, a medicine, and ωωλεω, to sell.) An apothecary or vender of me-

PHARMACOPO'LIUM. (From φαρμακον, a medi-

and σωσες, a potton.) A liquid medicine,
PHARMACOTHECA. (From φαρμακον, a medicine, and πόρμις, to place.) A medicine-chest.
PHARMACY. (Pharmacra; from φαρμακον, a

The art of preparing remedies for the medicine.) treatment of diseases.

The articles of the Materia Medica, being generally unfit for administration in their original state, are subjected to various operations, mechanical or chemical, by which they become adapted to this purpose. Herein consists the practice of pharmacy, which therefore requires a previous knowledge of the sensible and chemical properties of the substances operated on. The qualities of many boiles are materially changed by heat, especially in conjunction with air and other chemical agents; the virtues of others reside chiefly in certain parts, which may be separated by the action of various menstrua, particularly with the assistance of heat; and the joint operation of remedies on the hu-man body is often very different from what would be anticipated, from that which they exert separately; hence in the preparations and compositions of the Pharmacoperias, we are furnished with many powerful as well as elegant forms of medicine.

[Pharmacy, College of. A College of Pharmacy was instituted in the City of New-York, in 1829, by the Druggists and Apothecaries, with the following

provisions:

"No person hereafter engaging in such business, shall be admitted as a member, unless he has been regularly educated as a Druggist or Apothecary, or has received a diploma from this college, and is of correct moral deportment.

"It shall be the duty of the board of Trustees, to recommend suitable persons as Lecturers on Materia Medica, Chemistry, and Pharmacy, and on such other branches of science as may be useful in the instruction of Apothecaries, who shall be elected by a majo-

rity, at a general meeting of the college.

"The Trustees shall have power to publish in a pamphlet form, from time to time, such original essays or extracts from books of science, as may in their opinion be deemed useful for the advancement of knowledge, connected with the business of Druggists or Apothecaries.—Extr. from erredur. A.]
PHARYNGE THRON. Φαρυγγεθρον. The pha-

PHARYNGE'US. (From  $\phi \alpha \rho \nu \gamma \xi$ , the pharynx.) Belonging to or affecting the pharynx; thus cynanche pharyngea, &cc

PHARYNGOSTAPHYLI'NUS. A muscle originating in the pharynx, and terminating in the uvula.

PHARYNGOTO MIA. (Γιομφαρυγξ, the pharynx, and τερνως tocut.)

The operation of cutting the pharynx are represented in the pharynx and τερνως tocut.

PHARYNX. (Απο του φερω, because it conveys the food into the stomach.) The muscular bag at the back part of the mouth. It is shaped like a funnel, adheres to the fauces behind the larynx, and terminates in the asophagus. Its use is to receive the masticated

Fig. 1. Company in the three properties of the masheated food, and to convey it into the resophagus.

PHASE OLUS. (From \$\phiant{0}\text{pay}\$ a little ship, or galliot, which its pods were supposed to resemble.)

The name of a genus of plants. Class, Diadelphia;

Order, Decandria.

Phaseolus creticus. A decoction of the leaves of this plant, called by the Americans Cajan and Cayan, is said to restrain the bleeding from piles when excessive.-Ran

PHASEOLUS VULGARIS. The systematic name of the kidney-bean. This is often called the French bean; when young and well-boiled it is easy of digestion, and They are less liable to produce delicately dayoured. flatulency than pease

Phasga Num. (From parayovov, a knife: so called because its leaves are shaped like a knife, or sword.)

The herb swordgrass.
PHASIANUS. 1. The name of a genus of birds, of the order Galling.

2. The pheasant. PHASIANUS COLUMICUS. The common pheasant.
PHASIANUS GALLUS. The common or wild cock.
PHATINUM. (From \$\phi a \tau \tau\_1\$, a stall.) The socket of a tooth.

cine, and πωλεω, to sell.) A druggist's or apothecary's shop.

PHARMACOPO'SIA. (From φαρμακον, a medicine, and πωσις, a potton.) A hauid medicine.

PHARMACOTHE'CA. (From φαρμακον, a medicine.

PHARMACOTHE'CA. (From φαρμακον, a medicine.

PHARMACOTHE'CA. (From φαρμακον, a medicine.

PHELLANDRIUM AQUATICUM. The systematic name of the water-tennel, or fine-leaved water hemlock. Funculum aquaticum; Cicutario aquatica. The plant Fancedum aquaticum; Cicutario aquatica. The plant which bears this name in the pharmacopenas is the Phetlandrium—foloroum rampicationabus dramicals, of Limarus. It possesses vertiginous and poisonous qualities, which are best counteracted by acids, after clearing the prime view. The seeds are recommended by some, in conjunction with Peruvian bark, in the cure of pulmonary phthisis.

PHE MOS. (From φιμοω, to shut up.) A medicine

against a dysentery.

["PHENICIN is produced by stopping the action of the sulphuric acid on indigo before it is converted into cerulin; dilating, filtering, and washing the mixture with water, when it becomes of a bottle-green colour: muriate of potassa is added to the blue washings which are finally obtained, when the phenicli is precipitated of a fine reddish purple colour. It is soluble in water, and in alkohol, forming blue-coloured solutions, and is easily converted into cerulin by the action of water. From its ultimate analysis, Mr. Crum is disposed to consider phenicin as constituted of 1 indigo+2 wa-

ter."—Webs. Alan. Chem. A.]
PHILADE'LPHUS. (From φιλεω, to love, and αδελφος, a brother: so called because, by its roughness, it attaches itself to whatever is near it.) See Galium

PHILANTHRO'PUS. (From φιλεω, to love, and ανθρωπος, a man: so called from its uses.) cine which relieves the pain of the stone

2. The helb goose-grass, because it sticks to the garments of those who touch it. See Galium aparine.
PHILO'NIUM. (From Philo, its inventor.) A

warm opiate. PHILONIUM LONDINENSE. An old name of the Con

ctio opri. PHI LTRUM. (From φιλεω, to love.) 1. A philtre or imaginary medicine, to excite love.

2. The depression on the upper lip, where lovers sa

PHILLY RIA. (Πιλλυρια of Dioscorides, supposed to be so called from Phillyrea, the mother of Chiron, who first applied it medicinally. The name of a genus of plants, Class, Dundria; Order, Monogynia. Mock

PHIMO'SIS. (From φιμω, to bind up.) A constriction or straitness of the extremity of the prepuce, which, preventing the glans from being uncovered, is often the occasion of many troublesome complaints. It may arise from different causes, both in children and grown persons. Children have naturally the prepuce very long; and as it exceeds the extremity of the glans, and is not liable to be distended, it is apt to contract its orifice. This often occasions a lodgment of a small quantity of urine between that and the glans, which, if it grows corrosive, may irritate the parts so as to produce an inflammation. In this case, the extremity of the prepuce becomes more contracted, and consequently the urine more confined. Hence the whole inside of the prepuce excoriates and suppurates; the end of it grows thick and swells, and in some months becomes callous. At other times it does not grow thick, but becomes so strait and contracted as hardly to allow the introduction of a probe. The only way to remove this disorder is by an operation. phimosis may affect grown persons from the same persons who cannot uncover their glans, or at least not without pain, and yet have not the extremity of the prepuce so contracted as to confine theurine from passing, we notwithstanding find them sometimes troubled with a phimosis, which might be suspected to arise from a venereal taint, but has, in reality, a much more innocent cause. There are, we know, sebaceous glands, situated in the prepace, round the corona, which secrete an unctuous humour, which sometimes becomes acrimonious, irritates the skin that covers the glans, and the irritation extended to the internal membrane of the prepuce, they both become inflamed, and yield a purulent serum, which cannot be discharged, because the glans is swelled, and the orifice of the prepuce contracted. We find also some grown persons, who,

ject to phimosis from a venereal cause. In some, it is owing to gonorrhoa, where the matter lodged between the prepuce and the glans occasioned the same excoriation as the discharge before mentioned from the sebation as the discharge before mentioned from the seba-ceous glands. In others, it proceeds from venereal chancres on the prepuce, the glans, or the frænum; which producing an inflammation either on the pre-puce or glans, or both, the extremity of the foreskin contracts, and prevents the discharge of the matter. The parts, in a very little time, are greatly umefied, and sometimes a gangrene comes on in less than two

days.

PHLEBORRHA GIA. (From φλεψ, a vein, and ρηγυμα, tobreak out.) A rupture of a vein.

PHLEBOTOMY. (Phlebotomia; φλεψ, a vein, and τεμνω, to cut.) The opening of a vein.

PHLEGM. (Phlegma, atts. n.; from φλεψω, to burn or to excite.) In chemistry it means water from distillation, but, in the common acceptation of the word, it is a thick and tenacious mucus secreted in the lungs.

Phileomago'Ga. (From φλεγμα, philegm, and αγω, to drive out.) Medicines which promote the discharge phiegm.

PHLEGMA'SIA. (From φλεγω, to burn.) An inflammation.

PHLEGMASIA DOLENS. A very improper name given Philemmasia dolems. A very improper name given by Dr. Hull to a disease noticed by some of the French writers, under the name of the L'enflure des jambes et des eurs ses de la femme accouché; while others have called it dépôt du luit, from its supposed cause. By the Germans it is called the fellem lucteum, and by the English the white leg. This disease principally affects women in the purperal state; in a few instances it has been observed to attack pregnant women; and, in one or two cases, nurses, on losing their children, have been affected by it. Women of all descriptions are liable to be attacked by it during and soon after childbed; but those, whose limbs have been pained or anabed; but those, whose limbs have been pained or anasarcous during pregnancy, and who do not suckle their offspring, are more especially subject to it. It has rarely occurred oftener than once to the same female It supervenes to easy and natural, as well as to diffi-cult and preternatural births. It sometimes makes its appearance in twenty-four or forty-eight hours after delivery, and at other times, not till a month or six weeks after; but, in general, the attack takes place from the tenth to the sixteenth day of the lying-in. It has, in many instances, attacked women who were recovering from puerperal fever; and, in some cases, has supervened or succeeded to thoracic inflammation. It not uncommonly begins with coldness and rigors; these are succeeded by heat, thirst, and other symptoms of pyrexia; and then pain, stiffness, and other symptoms of topical inflam-mation supervene. Sometimes the local affection is mation superview. Sometimes the local anection is from the first accompanied with, but is not preceded by, febrile symptoms. Upon other occasions, the topical affection is neither preceded by purepreal fever, nor rigors, &c.; but soon after it has taken place, the pulse becomes more frequent, the heat of the body is increased, and the patient is affected with thirst, headcreased, and the patient is affected with thirst, headache, &c. The pyrexia is very various in degree in
different patients, and sometimes assumes an irregular remittent or intermittent type. The complaint
generally takes place on one side only at first, and the
part where it commences is various; but it most commonly begins in the lumbar, hypogastric, or inguinal
region, on one side, or in the hip, or top of the thigh,
and corresponding labium pudendi. In this case, the
patient first perceives a sense of pain, weight, and stiffrest in some of the above-mentioned parts which are ness, in some of the above-mentioned parts, which are increased by every attempt to move the pelvis, or lower limb. If the part be carefully examined, it generally is found rather fuller or hotter than natural, and tender to the touch, but not discoloured. The pain increases, always becomes very severe, and, in some cases, is of the most exeruciating kind. It extends along the thigh, and when it has subsisted for some time, longer or and when it has subsisted for some time, longer or shorter in different patients, the top of the thigh and the labium pudendi become greatly swelled, and the pain is then sometimes alleviated, but accompanied with a greater sense of distention. The pain next extends down to the knee, and is generally the most severe on the inside and back of the thigh, in the direction of the inside and back of the thigh, in the direction of the inside and back of the thigh, in the direction of the carried purpose. tion of the internal cutaneous and the crural nerves; when it has continued for some time, the whole of the

though they never uncovered the glans, have been sub- lieved. The pain then extends down the leg to the heved. The pain then extends down the leg to me foot, and is commonly the most severe in the direction of the posterior tibial nerve; after some time, the part last attacked begins to swell, and the pain abates in violence, but is still very considerable, especially on any attempt to move the limb. The extremity being now swelled throughout its whole extent, appears performed to the part of the content of th fectly or nearly uniform, and it is not perceptibly lessened by an horizontal position, like an adematose limb. It is of the natural colour, or even whiter, is hind. It is of the natural choun, or even and exquisitely tender when touched. When pressed by the finger in different parts, it is found to be elastic, little, if any, impression remaining, and that only for a very short time.

If a puncture, or incision, be made into the limb, in some instances, no fluid is discharged; in others, a small quantity only issues out, which coagulates soon after; and in others a large quantity of fluid escapes, which does not coegulate; but the whole of the effused matter cannot be drawn off in this way. The swelling of the limb varies both in degree and in the space of time requisite for its full formation. In most instances, it arrives at double the natural size, and in some cases, at a much greater. In lay habits, and in passents whose legs have been very much affected with anasarca during pregnancy, the swelling takes place more rapidly than in those who are differently circumstanced; it sometimes arrives, in the former class of patients, at its greatest en ent in twenty-four hours, or less, from the first attack

Instead of beginning invariably at the upper part of the limb, and descending to the lower, this complaint has been known to begin in the foot, the middle of the leg, the ham, and the knee. In which seever of these parts it happens to begin, it is generally soon diffused over the whole of the hmb, and, when this has taken place, the limb presents the same phenomena, exactly, that have been stated above, as observable when the inguen, &c. are first affected.

After some days, generally from two to eight, the febrile symptoms diminish, and the swelling, heat, tension, weight, and tenderness of the lower extremity, begin to abale, first about the upper part of the thigh, or about the knee, and afterward in the leg and toot. Some inequalities are found in the limb, which, at first, feel like indurated glands, but, upon being more nicely examined, their edges are not so well defined as those conglobate glands; and they appear to be occasioned by the ciliused matter being of different degrees of consistence in different points. The conglobate glands consistence in different points. of the thigh and leg are sometimes felt distinctly, and are tender to the touch, but are seldom materially enlarged: and as the swelling subsides, it has happened, that an enlargement of the lymphatic vessels, in some part of the limb, has been felt, or been supposed to be felt.

The febrile symptoms having gradually disappeared, the pain and tenderness of the limb being much re-lieved, and the swelling and tension being considerably diminished, the patient is debitrated and much re-duced, and the limb feels stiff, heavy, benumbed, and When the finger is pressed strongly against it for some time, in different points, it is found to be less for some time, in americal points, it is related to the impression of the tinger for a longer, in other places for a shorter time, or scarcely at all. And, if the limb be suffered to hang down, or if the patient walk much, it is found to be more swelled in the evening, and asserting the sufficient of an advantage, and asserting the sufficient of an advantage, and asserting the sufficient of the sufficient sumes more of an ædematose appearance. state the limb continues for a longer or shorter time, and is commonly at length reduced wholly, or nearly, to the natural size.

to the natural size.

Hitherto the disease has been described as affecting only one of the inferior extremities, and as terminating by resolution, or the effusion of a fluid that is removed by the absorbents: but, unfortunately, it sometimes happens, that after it abates in one limb, the other is attacked in a similar way. It also happens, in some cases, that the swelling is not terminated by resolution; for sometimes a supportation takes place it once that legs, and utcers are formed which are difficult to lead, to a few cases, a gaugence has suprevened. It seems legs, and inters are formed when are dimentorized. In some instances, the patient has been destroyed by the vio-lence of the disease, before either suppuration or gangrene have happened.

The predisposing causes of this disease, when it occurs during the pregnant or puerperal state, or in a

short time afterward, appear to be, 1st, The increased [ irritability and disposition to inflammation which preirritability and aisposition to injummation which pre-vail during pregnancy, and in a still higher degree for some time ofter parturition. 2dly, The over distend-ed, or reluxed state of the blood-vessels of the infriror part of the trunk and of the lower extremities, produced

during the latter months of utero-gestation.

Among the exciting causes of this disease may be enumerated, 1st, Contusions, or violent exertions of the lower portions of the abdominal and other muscles inserted in the pelvis, or thighs, or of the muscles of the inferior extremities, and contusions of the cellular texture connected with these muscles, during a tedious labour. 2dly, The application of cold and moisture, which are known to act very powerfully upon every system in changing the natural distribution of the ciressential fluids, and, consequently, in a system predis-posed by parturition, may assist in producing the dis-ease, by occasioning the fluids to be impelled, in unu-sual quantity, into the weakened vessels of the lumbar, hypogastric, and inguinal regions, and of the inferior extremities. 3dly, Suppression, or diminution of the lochia, and of the secretion or milk, which, by inducing a plethoric state of the sanguiferous system, may occasion an inflammatory diathesis, may favour congestion, and the determination of an unusual quantity of blood to the vessels of the parts just mennoned, and thus con tribute to the production of an inflammation of these parts. 4thly, Food taken in too large quantity, and of a too stimulating quality, especially when the patient does not give suck. This cause both favours the production of plethora, and stimulates the heart and arteries to more frequent and violent action; the effects of which may be expected to be particularly felt in the lumbar, hypogastric, or inguinal regions, and in the lower extremities, from the state of their blood-vessels. 5thly, Standing, or walking too much, before the arteries and veins of the lower half of the body have recovered sufficiently from the effects of the distention which existed during the latter months of pregnancy. This must necessarily occasion too great a determination of blood to these parts, and consequently too great a congestion in them; whence they will be more stimulated than the lated than the upper parts of the body, and inflamma-tion will sometimes be excited in them.

From an attentive consideration of the whole of the phenomena observable in this disease, and of its remote causes and cure, no doubt remains, Dr. Hull thinks, that the proximate cause consists in an inflammatory affection, producing suddenly a considerable effusion of serum and congulating lymph from the exhalants into the cellular membrane of the lymph.

Phierm size. The plural of phleymasia. Inflammations. The name of the second order in the class

Purezia, of Cullen's Nosological arrangement, charac-Tyresta, or culture Aussington a trangement, characterized by pyrexia, with topical pain and inflammation; the blood, after venesection, exhibiting a buffy coat. PHLEGMATORRHA'GIA. (From φλεγμα, mucus, and ρηγευμά, to break out.) A discharge of thin mucous phlegm from the nose, through cold.

PHLE GMON. (Phlegmon, ones. in.; from φλεγω, phurn.) Phlegmone. An inflammation of a bright to burn.) Phicymone. An inflammation of a bright red colour, with a throbbing and pointed tumour, tendto suppuration.

ing to suppuration. PHLOGISTON. PHLOGISTON. (From φλογιζω, to burn.) The supposed general inflammable principle of Stahl, who imagined it was pure fire, or the matter of fire fixed in combustible bodies, in order to distinguish it from fire in action, or in a state of liberty.

fire in action, or in a state of liberty.

Phlogisticated air. See Mitrogen.

Phlogisticated alkali. See Alkali phlogisticated.

Phlogisticated gas. See Mitrogen.

PHLOGO'SIS. (From φλογοω, to inflame.) Inflammation.

PHLOGOTICA. (Phlogoticus; from φλεγω, to burn.) The name of the second order of the class

Hamatica in Good's Nasadour. Inflammation. Homatica, in Good's Nosology. Inflammation, its genera are Apostema; Phlegmone; Phyma; Ionthus; Phlysis; Erythema; Empresma; Ophthalmia; Catarrhus: Dy Interia; Buenema; Arthoseia.
PHLYCTA:NA. (DARRAUAI, Small bladders.)

PILYCTA: ΝΑ. (Φλυκταιναι, small bladders.)
Phlyctis; Phlysis. A small pellucid vesicle, that con-

tains a serous fluid.

PHLYSIS. (From φλυζω, to burn.) The name of a genus of diseases in Good's Nosology. Class, Hamatica; Order, Phlogotica. It has only one species, Phlysis paronychia. Whitlow.

PHLYZA'CIUM. (From φλυζω, to be hot.) A pustule on the skin, excited by fire or heat. See

PHONIGMUS. (From powit, red.) 1. A redness of the skin, such as is produced by stimulating sub-

stances.

That which reddens the skin when applied to it.

That which readens the skin when applied to the PHICE NIX. (Partix, of the ancient Greeks, the date palm-tree; from which, as a primitive word, Phanicia, the land of palm-trees, seems to have derived its name, as likewise the red colour phaniceus.) The name of a genus of plants. Class, Diacia; Order, Triandria.

The date palm-tree.

The date painteree.
PHENIX DACTYLIFERA. The systematic name of the date-tree. Phemis-frontibus pinnatis; foliulis cusiformibus complicatis, of Linnæus. The fruit is the date-tribus or date. Dates are oblong. Before called dactylus or date. Dates are oblong. Before they are ripe they are rather rough and astringent; but when perfectly matured, they are much of the na ture of the fig. See Picus curica. Senegal dates are much esteemed, they having a more sugary, agreeable flavour than those of Ægypt and other places. are aperient.

PHONICA. (Phonicus; from φωνη, the voice.) The name of the first order of the class Pneumatica, in Good's Nosology. Diseases affecting the vocal avenues. It has six genera, viz. Coryza; Polypus; Diseases affecting the vocal

Rhonchus; Aphonia; Dysphonia; Psellismus.
PHOSGENE GAS. (Phosgene: so called by its discoverer, Doctor John Davy, from its mode of production.) Chloro-carbonaceous acid, a combination of carbonic oxide and chlorine, made by exposing a mixture of equal volumes of chlorine, and carbonic oxide, to the action of light. It has a peculiar pungent odour, is soluble in water, and is resolved into carbonic and muriatic acid gas.
PHOSPHATE. (Phosphas; from phosphorus.)

salt formed by the union of phosphoric acid with salifiable bases; thus, phosphate of ammonia, phosphate

lime, &c.
PHOSPHATIC ACID. PHOSPHATIC ACID. Acidum phosphaticum. "This acid is obtained by the slow combustion of cylinders of phosphorus in the air. For which purpose, it is necessary that the air be renewed to support the combustion; that it be humid, otherwise the dry coat of phosphatic acid would screen the phosphorus from farther action of the oxygen; and that the different cylinders of phosphorus be insulated, to prevent the heat from becoming too high, which would melt or inflame them, so as to produce phosphoric acid. acid, as it is formed, must be collected in a vessel, so as to lose as little of it as possible. All these conditions may be thus fulfilled: We take a parcel of glass tubes, which are drawn out to a point at one end; we introduce into each a cylinder of phosphorus a little shorter than the tube; we dispose of these tubes along-side of one another, to the amount of 30 or 40, in a glass funnel, the beak of which passes into a bottle placed on a plate, covered with water. We then cover the bottle and its funnel with a large bell-glass, having a small hote in its top, and another in its side.

A film of phosphorus first evaporates, then combines with the oxygen and the water of the air, giving birth to phosphatic acid, which collects in small drops at the end of the glass tubes, and falls through the funnel into the bottle. A little phosphatic acid is also found on the sides of the bell-glass, and in the water of the plate. The process is a very slow one.

The phosphatic acid thus collected is very dilute. We reduce it to a viscid consistence, by heating it gently; and better still, by putting it, at the ordinary temperature, into a capsule over another capsule full of concentrated sulphuric acid, under the receiver of

of concentrated suppliers acid under the concentration an air-pump, from which we exhaust the air.

The acid thus formed is a viscid liquid, without colour, having a faint smell of phosphorus, a strong taste, reddening strongly the fincture of litmus, and denser than water in a proportion not well determined. Every thing leads to the belief that this acid would be solid, could we deprive it of water. When it is heated in a retort, phosphuretted hydrogen gas is evolved, and phosphoric acid remains. The oxygen and hydrogen of the water concur to this transformation. Phosphotic acid has no action, either on oxygen gas, or on the atmospheric air at ordinary temperatures. In com-bining with water, a slight degree of heat is occasion-ed. The phosphatic acid in its action on the salifiz-

ble bases is transformed into phosphorous and phosphoric acids, whence proceed phosphites and phosphorous

phates:
PHOSPHITE. Phosphis. A salt formed by the combination of phosphorous acid with salifiable bases; thus, announced phosphete, &c.
Phosphorated hydrogen. See Phosphorus.
PHOSPHORESCENCE. The luminous appearance

PHOSPHORESCENCE. The luminous appearance which is given off by phosphorescent bodies. PHOSPHORIC ACID. Acedum phosphoricum. "The base of this acid, or the acid itself, abounds in the mineral, vegetable, and animal kingdoms. In the mineral kingdom it is found in combination with lead, in the green lead ore; with iron, in the log ores, which afford cold short iron, and more especially with calearous earth in several kinds of stone. Whole mountains in the province of Estremadura in Spain are composed of this combination of phosphoric acid and composed of this combination of phosphoric acid and lime. Bowles affirms, that the stone is whitish and tasteless, and affords a blue flame without smell when thrown upon burning coals. Prout describes it as a dense stone, not hard enough to strike fire with steel; and says that it is found in strata, which always lie and says that it is found in strata, which are intersected with veins of quartz. And which are intersected with veins of quartz. When this stone is scattered upon burning coals, it does not decrepitate, but burns with a beautiful green hight, which lasts a considerable time. It melts into a white enamel by the blow-pipe; is soluble with heat, and some effervescence in the nitric acid, and forms sulphate of lime with the sulphuric acid, while the phosphoric acid is set at liberty in

The vegetable kingdom abounds with phosphorus, or its acid. It is principally found in plants that grow or us acid. It is principally found in plants that grow in marshy places, in turf, and several species of the white woods. Various seeds, potatoes, agaric, soot, and charcoal, afford phosphoric acid, by abstracting the natic acid from them, and lixivisiting the residue. The livivium contains the phosphoric acid, which may either be saturated with lime by the addition of lime-water, in which case it forms a solid compound; or it may be tried by examination of its leading properties

by other chemical methods

In the animal kingdom it is found in almost every part of the bodies of animals which are not consideraby volatile. There is not, in all probability, any part of these organized beings which is free from it. It has been obtained from blood, flesh, both of land and water animals: from cheese; and it exists in large quantities in bones, combined with calcareous earth. Urine con-In bones, combined with calcareous earth. Urine contains it, not only in a disengaged state, but also combined with ammonia, soda, and lime. It was by the evaporation and distillation of this excrementitious fluid with charcoal that phosphorus was first made; the charcoal decomposing the disengaged acid and the ammoniacal salt. But it is more cheaply obtained by the process of Scheele, from bones, by the application of an acid to their earthy residue after calcination.

In this process the sulphuric acid appears to be the most convenient, because it forms a nearly insoluble compound with the lime of the bones. Bones of beef, compound with the lime of the bones. Bones of been mutton, or veal, being addined to whiteness in an open fire, lose almost half of their weight. This must be pounded, and sifted; or the trouble may be spared by buying the powder that is sold to make cupels for the assayers, and is, in fact, the powder of burned bones ready sifted. To three pounds of the powder there may be added about two pounds of concentrated sufphuric acid. Four or five pounds of water must be afterward added to assist the action of the acid; and during the whole process the operator must remember during the whole process the operator must remember to place himself and his vessels so that the fumes may be blown from him. The whole may be then left on a gentle smad bath for twelve hours or more, taking care to supply the loss of water which happens by evaporation. The next day a large quantity of water must be added, the whole strained through a sieve, and the residual matter, which is sulphate of lime, must be edulcorated by repeated affusions of hot water, till it passes tasteless. The waters contain phosphoric acid nearly free from lime; and by evaporation, first in glazed earthen, and then in glass vessels, or rather in vessels of platina or silver, for the hot acid acts upon glass, afford the acid in a concentrated state, which, by the force of strong heat in a crueible, may be made to acquire the form of a transparent consistent glass, though it is usually of a milky, one one appearance.

For making phosphorus, it is not necessary 'o evaporate the water further than to bring it to the consistence of syrup; and the small portion of lime it contains is not an impediment worth the trouble of remo ing, as it affects the produce very little. But when the ing, as it affects the produce very little. But when the acid is required in a purer state, it is proper to add a quantity of carbonate of ammonia, which, by double elective attraction, precipitates the lime that was held in solution by the phosphoric acid. The fluid, being then evaporated, affords a crystallized animoniacal salt, which may be melted in a silver vessel, as the acid acts upon glass or earthen vessels. The ammonia is acts upon glass or earthen vessels. The annuonia is driven off by the heat, and the acid acquires the form of a compact glass, as transparent as rock crystal, acid to the taste, soluble in water, and deliquescent in

This acid is commonly pure, but nevertheless may contain a small quantity of soda, originally existing in the bones, and not capable of being taken away by this process, ingenious as it is. The only unequivocal this process, ingenious as it is. The only unequivocument method of obtaining a pure acid appears to consist in first converting it into phosphorus by distillation of the materials with charcoal, and then converting it again into acid by rapid combustion, at a high temperature, either in oxygen or atmospheric air, or some other equi-

Phosphorus may also be converted into the acid state by treating it with nitric acid. In this operation, a tabulated retort with a ground stopper, must be half filled with nitric acid, and a gentle heat applied. A small piece of phosphorus being then introduced through the tube, will be dissolved with effervescence, produced by the escape of a large quantity of nitric oxide. The addition of phosphorus must be continued until the last piece remains undissolved. The fire the list piece remains undissolved. The life being then raised to drive over the remainder of the nitric acid, the phosphoric acid will be found in the retort, partly in the concrete and partly in the liquid form.

Sulphuric acid produces nearly the same effect as the nitric; a large quantity of sulphurous acid flying off. But as it requires a stronger beat to drive off the last portions of this acid, it is not so well adapted to the The liquid chlorine likewise acidifies it.

purpose. The inquite thiotine intervise accounts it.
Which phosphorus is burned by a strong heat, sufficient to cause it to flame rapidly, it is almost perfectly converted into dry acid, some of which is thrown up by the force of the combustion, and the rest remains upon the supporter.

This substance has also been acidified by the direct application of oxygen gas passed through hot water,

application of oxygen gas passed through hot water, in which the phosphorus was liquelied or fused.

The general characters of phosphoric acid are: 1. It is soluble in water in all proportions, producing aspecine gravity, which increases as the quantity of acid is greater, but does not exceed 2.687, which is that of the glacini acid. 2. It produces hear when mixed with water, though not very considerable. 3. It has no smell when pure, and its taste is sour, but not corresive. 4. When perfectly dry, it sublimes in close vessels; but loses this property by the addition of water; in which circumstance it greatly differs from the boracic acid, which is fixed when dry, but rises by the help of water. 5. When considerably diluted with water, of water. 5. When considerably soft lists by this water, and evaporated, the aqueous vapour carries up a small portion of the acid. 6. With charcoal or inflammable matter, in a strong heat, it loses its oxygen, and be-

comes converted into phosphorus.

Phosphoric acid is difficult of crystallizing.

Though the phosphoric acid is scarcely corrosive, yet, when concentrated, it acts upon oils, which it disyer, when concentrated, it acts upon ons, which it dis-colours, and at length blackens, producing heat, and a strong smell like that of ether and oil of turpentine; but does not form a true acid soap. It has most effect on essential oils, less on drying oils, and least of all on fat oils. Spirit of wine and phosphoric acid have a weak action on each other. Some heat is excited by this mixture, and the product which comes over in distillation of the mixture is strongly acid, of a punpent arsenical smell, inflammable with smoke, missible in all proportions with water, precipitating silver and mercury from their solutions, but not gold; and almercury from their soundings, but not gout; and ar-though not an ether, yet it seems to be an approxima-tion to that kind of combination.

Phosphoric acid, united with barytes, produces an insoluble salt, in the form of a heavy white powder,

fusible at a high temperature into a gray enamel.

phate to the nitrate or murrate of barytes.

The phosphate of strontian differs from the preceding in being soluble in an excess of its acid.

Phosphate of time is very abundant in the native state

The phosphate of lime is very difficult to fuse, but in a glasshouse furnace it softens, and acquires the semi-transparency and grain of porcelain. It is insolu-ble in water, but when well calcined, forms a kind of paste with it, as in making cupels. Besides this use of th, it is employed for polishing gems and metals, for absorbing grease from cloth, linen, or paper, and for preparing phosphorus. In medicine it has been strongly recommended against the rickets by Dr. Bonhomme of Avignon, either alone or combined with phosphate of soda. The burnt hartshorn of the shops is a phosphate of lime.

An acidalous phosphate of lime is found in human urine, and may be crystallized in small silky filaments, or shiring scales, which unite together into something like the consistence of homey, and have a perceptibly acid taste. It may be prepared by partially decom-posing the calcareous phosphate of homes by the sulposing the calcareous phosphate of bones by the sul-phoric, nitric, or muriatic acid, or by dissolving that phosphate in phosphoric acid. It is solidble in water, and crystallizable. Exposed to the action of heat, it softens, liquefies, swells—up, becomes day, and may be fused into a transparent glass, which is insipid, insolu-ble, and unalterable in the air. In these characters it differs from the glacial acid of phosphorus. It is partly decomposable by charcoal, so as to afford phosphorus.

The phosphate of potassa is very deliquescent, and not crystallizable, but condensing into a kind of jelly. Like the preceding species, it first undergoes the aque ous fusion, swells, dries, and may be fused into a glass but this glass deliquesces. It has a sweetish saline

The phosphate of soda was first discovered combined with ammonia in urine, by Schockwitz, and was called fusible or microcosmic salt. Margraff obtained called fusible or microcosmic salt. Margraff obtained it alone by fixiviating the residumle left after preparing phosphorus from this triple salt and charcoal. Haupt, who first discriminated the two, gave the phosphate or sord after name of salt mirrable perfatum. Roughle very properly announced it to be a compound of soda and phosphoric acid. Bergman considered it, or rather the phosphore and the acid for the phosphore, as a peculiar acid, and gave it the name of perlate acid. Guyton-Morvean did the same, but distinguished it by the name of our etic: at length Klaproth ascertained its real nature to be as Rouelle had affirmed.

This phosphate is now commonly prepared by adding to the acidulous phosphate of lime as much carbonate of soda in solution as will fully saturate the acid. The of soda in solution as will fully saturate the acid. The carbonate of lime which precipitates, being separated by filtration, the liquid is duly evaporated so as to crystalize the phosphate of soda; but if there be not a slight excess of alkali, the crystals will not be large and regular. Funcks, of Linz, recommends, as a more economical and expeditions mode, to saturate the excess of lime in calcined bones by dilute sulphuric acid, and dissolve the phosphate of lime that remains in nitric acid. To this solution he adds an equal quantity of sulphate of Seda and recovers the nitric solution. tity of sulphate of soda, and recovers the nitric acid by distillation. He then separates the phosphate of soda from sulphate of line by clutriation and crystallization, as usual. The crystals are rhomboidal prisms of dif-ferent shapes; efflorescent: soluble in 3 parts of cold, and 1½ of hot water. They are capable of being fused into an opaque white glass, which may be again dissolved and crystallized. It may be converted into an acidulous phosphate by an addition of acid, or by either of the strong acids, which partially, but not wholly, decompose it. As its taste is simply saline, without any thing disagreeable, it is much used as a purgative, any thing disagreeable, it is much used as a purgative, chiefly in broth, in which it is not distinguishable from Common salt. For this elegant addition to our pharmaceutical preparations, we are indebted to Dr. Pearson. In assays with the blow-pipe it is of great utility; and it has been used instead of borax for soldering.

The phosphate of ammonia crystallizes in prisms with four regular sides, terminating in pyramids, and sometimes in bundles of small needles. Its taste is cook, saline, pungent, and urinous. On the fire it comports itself like the preceding species, except that the whole of its base may be driven off by a continuance of the

of its base may be driven off by a continuance of the

best mode of preparing it is by adding an alkaline phos- | heat, leaving only the acid behind. It is but little more near, feaving only act acts a serious it is not into more soluble in hot water than in cold, which takes up a tourth of its weight. It is pretty abundant in human urins, particularly after it has become partial. It is an executor that both for assays and the how pipe, and in the fabrication of coloured glass and artificial gens.

The chreation of coolede gass and artificial gens.

Phosphate of magnesia crystallizes in irregular hexahedral prisms, obliquely truncated; but is commonly pulvernlent, as it efforesees very quickly. It requires fifty parts of water to dissolve it. Its taste is cool and sweetish. This salt too is found in urine.

An ammoniaco-magnesian phosphate has been dis-covered in an intestinal calculus of a horse by Four croy, and since by Bartholdi, and likewise by the for-

mer, in some human umary calculi.

The phosphate of glucine has been examined by Vanquelin, who informs us, that it is a white powder, or nacilaginous mass, without any perceptible taste; fusible but not decomposable by heat; unalterable in the air, and insoluble unless in an excess of its acid.

the air, and insoluble unless in an excess of its acid. It has been observed, that the phosphoric acid, aided by heat, acts upon sitex; and we may add, that it cuters into many artificial gens in the state of a silicious phosphate. "—Ure's Chemical Dictionary.

PHOSPHORITE. A subspecies of apatite. I. Common phusphorite. This is of a yellowish white colour, when rubbed in an iron mortar, or thrown or red-hot coals. It emits a green-coloured phosphoric light. It is found in Estrogadura, in Soalo is found in Estremadura, in Spain.

is found in Estremadura, in Spain.

2. Ewsthy phosphorate. Of a grayish white colour, and consists of dull dusty particles, which phosphoresee on glowing coals. It is found in Hungary. PHOSPHOROUS ACID. Acutem phosphorosum. "This acid was discovered in 1812 by Sir II. Davy.

"This acid was discovered in 1812 by Sir II. Davy. When phosphorus and corrosive sublimate act on each other at an elevated temperature, a liquid called protochloride of phosphorus is formed. Water added to this, resolves it into muriatic and phosphorous acids. A moderate heat suffices to expel the former, and the latter remains associated with water. It has a very sour taste, reddens vegetable bluee, and neutralizes bases. When heated strongly mopen vessels, it inflames. Phosphuretted hydrogen files off, and phosphuretted hydrogen files off, and phosphuretted in close names. Prospiniented hydrogen files off, and phosphoric acid remains. Ten parts of it heated in close vessels give off one half of bihydroguret of phosphorus, and leave 8½ of phosphoric acid. Hence the liquid acid consists of 80.7 acid + 19.3 water. Its prime equivalent is 2.5."

PHOSPHORUS. (From φως, light, and φερω, to carry.) Autophosphorus. A simple substance which has never been found pure in nature. It is always met with united to oxygen, or in the state of phosphoric acid. In that state it exists very plentifully, and is united to different animal, vegetable, and mineral sub-

" If phosphoric acid be mixed with 1-5th of its weight of powdered charcoal, and the mixture distilled at a moderate red heat, in a coated earthen retort, whose beak is partially immersed in a basin of water, drops of a waxy-looking substance will pass over, and, fallof a waxy-lowing substance will pass over, and, ran-ing into the water, will concrete into the solid called phosphorus. It must be purified, by straining it through a piece of chamois leather, under warm water. It is yellow and semitransparent. It is as soft as wax, but fully more cohesive and ductile. Its sp. gr. is 1.77. It make at 169 F. and bell, at 150. It melts at 90° F. and boils at 550°.

It melts at 190° F, and boils at 550°.

In the atmosphere, at common temperatures, it emits a white smoke, which, in the dark, appears luminous. This smoke is anchalous, and results from the slow oxygenation of the phosphorus. In air perfectly dry, however, phosphorus does not smoke, because the acid which is formed is solid, and, closely incasing the combustible, screens a from the atmospherical oxygen.

When threatherns is hereaff in the air to about 148°.

When phosphorus is heated in the air to about 1489, it takes fire, and burns with a splendid white light, and a copious dense smoke. If the combustion take place within a large glass receiver, the smoke becomes condensed into snowy looking particles, which fall in a successive shower, coating the bottom plate with a spongy efforescence of phosphoric acid. This acid snow soon liquiefies by the absorption of aqueous vanour foun tha air. pour from the air.

When phosphorus is inflamed in oxygen, the light and heat are incomparably more intense; the former dazzling the eye, and the latter cracking the glass vessel. Solid phosphoric acid results; consisting of 1.5 phosphorus + 2.0 oxygen.

When phosphorus is heated in highly rarefied air, three products are formed from it: one is phosphoric acid; one is a volatile white powder; and the third is a red solid of comparative fixity, requiring a heat above that of boilting water for its fusion. The volatile sub-otance is soluble in water, imparting acid properties to it. It seems to be phosphorous acid. The red sub-stance is probably an oxide of phosphorous, since, for its conversion into phosphoric acid it requires less oxygen than phosphorus does. See Phosphoric, Phos-phorous, and Hypophosphorous Acids: Phosphorus and chlorine combine with great facili-

ty, when brought in contact with each other at common

temperatures

I. When chlorine is introduced into a retort ex-hausted of air, and containing phosphorus, the phos-phorus takes fire, and burns with a pale flame, throw-ing off sparks; white a white substance rises and con-denses on the sides of the vessel.

If the chlorine be in considerable quantity, as much as 12 cubic inches to a grain of phosphorus, the latter will entirely disappear, and nothing but the white powder will be formed, into which about 9 cubic inches of the chlorine will be condensed. No new gaseous matter is produced.

The powder is a compound of phosphorus and chlorine, first described as a peculiar body by Sir H. Davy in 1810; and various analytical and synthetical experiments which he made with it, prove that it consists of about 1 phosphorus, and 6.8 chlorine in weight. It is

the bichloride of phosphorus. Its properties are very peculiar. It is snow white, extremely volatile, rising in a gaseous form at a temperature much below that of boiling water. Under neumatic pressure it may be fused, and then it crystal-

lizes in transparent prisms.

It acts violently on water, decomposing it, whence result the phosphoric and muriatic acids; the former from the combination of the phosphorus with the oxygen, and the latter from that of the chlorine with the hydrogen of the water. It produces flame when exposed to a lighted taper. If it be transmitted through an ignited glass tube, along with oxygen, it is decomposed or account of section 1. decomposed, and phosphoric acid and chlorine are ob-tained. The superior fixity of the acid above the chlo-ride, seems to give that ascendancy of attraction to the oxygen here, which the chlorine possesses in most other cases. Dry littinus paper exposed to its vapour in a vessel exhausted of air, is reudened. When introduced into a vessel containing ammonia, a combination takes place, accompanied with much heat, and there results a compound, insoluble in water, undecomposable by acid or alkaline solutions, and possessing characters analogous to earths.

2. The protochloride of phosphorus was first obtained in a pure state by Sir H. Davy, in the year 1809. If phosphorus be sublimed through corresive sublimate, phosphotus be should under forteste submitted in powder in a glass tube, a limpid fluid comes over as clear as water, and having a specific gravity of 1.45. It emits acid funnes when exposed to the air, by decomposing the aqueous vapour. If paper, inbued with it, be exposed to the air, it becomes acid without inflammation. It does not redden dry litrous paper plunged Into it. Its vapour bouns in the flame of a candle. When mixed with water, and heated, muriatic acid flies off, and phosphorous acid remains. If it is introduced into a vessel containing chlorine, it is converted into the bichloride; and if made to act upon ammonia, phosphorus is produced, and the same earthy-like compound results as that formed by the bichloride and ammonia.

The compounds of iodine and phosphorus have been

examined by Sir H. Davy and Gay Lussac.

Phosphorus unites to iodine with the disengagement of heat, but no light. One part of phosphorus and eight of iodine form a compound of a red orange-brown colour, fusible at about 212°, and volatile at a higher temperature.

One part of phosphorus and 16 of iodine produce a crystalline matter of a grayish-black colour, fusible

One part of phosphorus, and 24 of iodine, produce a black substance partially fusible at 1150.

Phosphuretted hydrogen. Of this compound there are two varieties; one consisting of a prime of each constituent, and therefore to be called phosphuretted hydrogen; another, in which the relation of phosphorus is one half less, to be called therefore subphosphu retted hydrogen.

retted hydrogen.

1. Phosphuretted hydrogen. Into a small retorifiled with milk of line, or potassa water, let some fragments of phosphorus be introduced, and let the heat of an Argand flame be applied to the bottom of the retort, while its beak is immersed in the water of a pneumatic trough. Bubbles of gas will come over, which explode spontaneously with contact of air. It may also be procured by the action of dilute muriatic acid on phosphuret of lime. In order to obtain the gas pure, however, we must receive it over mercury. Its smell is very disagreeable. Its sp. grav. is 0.9022. 100 cubic inches weigh 27.5 gr. In oxygen, it inflames with a brilliant white light. In common air, when the gaseous bubble bursts the film of water, and explodes, there rises up a ring of white smoke, luminous in the there rises up a ring of white smoke, luminous in the dark. Water absorbs about 1-40th of its bulk of this gas, and acquires a yellow colour, a bitter taste, and the characteristic smell of the gas. When brought in contact with chlorine if detonates with a brilliant green light; but the products have never been particularly examined.

2. Subphosphuretted hydrogen. It was discovered by Sir H. Davy in 1812. When the crystalline hydrau by Sir H. Davy in 1812. When the crystalline hydrau by Sir H. Davy in 1812. When the crystalline hydround in a retort out of the contact of air, solid phosphore acid is formed, and a large quantity of subphosphuretted hydrogen is evolved. Its smell is fætid, but not so disagreeably so as that of the preceding gas. It does not so disagreeaby so as unafort the preceding gas. It does not spontaneously explode like it with oxygen; but at a temperature of 300° a violent detonation takes place. In chlorine it explodes with a white flame. Water absorbs one-eighth of its

volume of this gas.

It is prohable that phosphuretted hydrogen gas sometimes contains the subphosphuret and common hydro

gen mixed with it.

'There is not, perhaps,' says Sir H. Davy, 'in the whole series of chemical phenomena, a more beautiful illustration of the theory of definite proportions, than

illustration of the theory of definite proportions, than that offered in the decomposition of hydrophosphorous acid into phosphoric acid, and hydrophosphoric gas.

'Four proportions of the acid contain four proportions of phosphorus and four of oxygen; two proportions of water contain four proportions of hydrogen and two of oxygen (all by voitune). The six proportions of oxygen unite to three proportions of phosphorus to form three of phosphoric acid, and the four proportions of hydrogen combine with one of phosphorus to form one proportion of hydrophosphoric gas (that is,

subphosphuretted hydrogen); and there are no other products.—Elements, p. 297.
Phosphorus and sulphur are capable of combining. They may be united by melting them together in a tube exhausted of air, or under water. In this last case, they must be used in small quantities; as, at the mothey must be used in small quantities; as, at the moment of their action, water is decomposed, sometimes
with explosions. They unite in many proportions.
The most fusible compound is that of one and a hale
of sulphur to two of phosphorus. This remains liquid
at 400 Fahrenheit. When solid, its colour is yellowishwhite. It is more combustible than phosphorus, and
distils undecompounded at a strong heat. Had it
consisted of 2 sulphur—3 phosphorus, we should have
had a definite compound of 1 prime of the first—2 of
the second constituent. This proportion forms the
best composition for phosphoric fire-matches or bottles.

A particle of it attached to a brimstone match, inflames
when gently nubbed against a surface of cork or wood. when gently rubbed against a surface of cork or wood. An exide made by heating phosphorus in a narrow-mouthed phial with an ignited wire, answers the same purpose. The phial must be kept closely corked, otherwise phosphorous acid is speedily formed.

Phosphorus is soluble in oils, and communicates to them the property of appearing luminous in the dark. Alkohol and ether also dissolve it, but more spa-

The earliest account we have concerning the medicinal use of phosphorus, is in the seventh volume of Haller's Collection of Theses, relating to the history and cure of diseases: The original dissertation is enand cure of diseases. The original dissertation is en-titled. De Phosphori Loco Meticament adsumpti vir-tate medica, adiquot casibus singularibus confirmata, Auctore J. Gabi. M. att. There are three cases of sin-gular cures performed by means of phosphorus, nar-rated in this thesis; the history of these cases and cures was sent to Dr. Gabi Mentz, by his father.

The second, is that of a man who laboured under a

The third case is entitled a malignant catarrhal fever,

with petechiæ.

The dangerous consequences which are likely to follow the injudicious administration of phosphorus cannot be impressed on the mind more strongly than cannot be impressed on the mind more strongly than by reading the cases and experiments which are mentioned by Weickard, in the fourth part of his miscellaneous writings, (Vermischte Medicineche Schrifften, von M. A. Weickard,) PHOSPHURET. (Phosphuretum, from phosphorus.) A combination of phosphorus, with a combustible or metallic oxide.

Phosphuretted hydrogen. See Phosphorus. PHOSPHURETUM. See Phosphuret.

PHOTICITE. A mixture of the silicate and carbo-

silicate of manganese.

PHOTOPHO BIA. (From φως, light, and φωδεω, to dread.) Such an intolerance of light, that the eye, or dread.) Such an intolerance of light, that the eye, or rather the retina, can scarcely hear its irritating rays. Such patients generally wink, or close their eyes in light, which they cannot bear without exquisite pain, or confused vision. The proximate cause is too great a sensibility in the retina. The species are,

1. Photophobia inflammatorica, or dread of light from the desired proximators cause, which is a particular symptom.

an inflammatory cause, which is a particular symptom

of the internal ophthalmia.

2. Photophobia, from the disuse of light, which hap-pens to persons long confined in dark places or prisons; on the coming out of which into light the pupil contracts, and the persons cannot bear light. The depression of the cataract occasions this symptom, which appears as though fire and lightning entered the eye, not being able to bear the strong rays of light.

3. Photophobia nervea, or a nervous photophobia, which arises from an increased sensibility of the nervous expansion and optic nerve. It is a symptom of the hydrophobia, and many disorders, both acute and

 Photophobia, from too great light, as looking at the sun, or at the strong light of modern lamps.
 PHOTO PSIA. (From φως, light, and οψις, vision.)
 Lucid vision. An affection of the eye in which the patient perceives luminous rays, ignited lines, or coruscations.

PHRA'OMUS. (From φρασσω, to enclose, or fence: so called from their being set round like a fence of stakes.)

The rows of teeth.

PHRE'NES. (Phren, from  $\phi \rho \eta \nu$ , the mind; because the ancients imagined it was the seat of the mind.)

See Phrenitis.

The diaphragm.
PHRENE'SIS.
PHRENIC. PHRENICS. See Parentus.

PHRENIC. (Phrenicus; from pheves, the diaphragm.) Belonging to the diaphragm.

PHRENIC ARTERY. The arteries going to the dia-

PHRENIC NERVE. Diaphragmatic nerve. from a union of the branches of the third, fourth, and fifth cervical pairs, on each side, passes between the clavicle and subclavian artery, and descends from thence by the pericardium to the diaphragm.

PHRENIC VEIN. The veins coming from the dia-

phragm.
PHRENICA. (Phrenicus; from φρην, the mind, or intellect.) The name of the first order of diseases of the class Neurotica, in Good's Nosology. Diseases affecting the intellect. Its genera are, Ecphoronia; Empathema; Alusia; Aphlezia; Paroniria; Moria. PHRENI'TIS. (Phrenicis, idis. f. Φρινιτς; from φρην, the mind.) Phrenzesis: Phrenicissis; Phrenismus; Cephalitis; Sphacetismus; Cephalalgia in-Rammatoria. By the Arabians, karabitus. Phrenzy or inflammation of the brain. A genus of disease in the Class Pyrezia, and Order Phlegmasia, of Cullen; characterized by strong fever, violent headache, redness of the face and eyes, impatience of light and noise, ness of the face and eyes, impatience of light and noise, watchfulness, and furious delirium. It is symptomatic of several diseases, as worms, hydrophobia, &c. Phrenitis often makes its attacks with a sense of fulness in the head, flushing of the countenance, and redness of the eyes, the pulse being full, but in other respects natural. As these symptoms increase, the patient becomes restless, his sleep is disturbed, or wholly forsakes him. It sometimes comes on, as in the epidemic,

The first instance is of a man who laboured under a | of which Sadiman gives an account, with pain, or s peculiar sense of measiness of the head, back, loins, and joints; in some cases, with tremor of the limbs, and joints; in some cases, with tremor of the limbs, and intolerable pains of the hands, feet, and legs. It now and then attacks with stupor and rigidity of the whole body, sometimes with auxiety and a sense of tension referred to the breast, often accompanied with palpitation of the heart. Sometimes nausea and a painful sense of weight in the stomach, are among the earliest symptoms. In other cases, the patient is attacked with younting, or compilants of the heart-burn earnest symptoms. In other cases, the patent is at-tacked with vomiting, or complains of the heart-burn, and griping pains in the bowels. When the intimate connexion which subsists between the brain and every part of the system is considered, the variety of the symptoms attending the commencement of phrenitis is symptoms are using the commencement of phremis is not so surprising, nor that the stomach in particular should suffer, which so remarkably sympathizes with the brain. These symptoms assist in forming the diag-nosis between phrenitis and synocha. The pain of nosis between phrenitis and synocha. The pain of the head soon becomes more considerable, and sometimes very acute. "If the meninges," says Dr. Fordyee, "are affected, the pain is acute; if the substance only, obtuse, and sometimes but just sensible." And Dr. Culten remarks, "I am here, as in other analogous cases, of opinion, that the symptoms above mentioned of an acute inflammation, always mark inflammations of membraneous parts, and that an inflammation of parenchyma, or substance of viscera, exhibits, at least

parenchyma, or substance of viscera, exhibits, at least commonly, a more chronic inflammation."

The seat of the pain is various: sometimes it seems to occupy the whole head; sometimes, although more circumscribed, it is deep-seated, and ill-defined. In other cases, it is felt principally in the forehead or occiput. The redness of the face and eyes generally increases with the principally in the forehead. ciput. The redness of the face and eyes generally in-creases with the pain, and there is often a sense of heat and throbbing in the head, the countenance ac-quiring a peculiar flerceness. These symptoms, for the most part, do not last long before the patient begins to talk incoherently, and to show other marks of delirium Sometimes, however, Saalman observes, delirium did not come on till the fifth, sixth, or seventh day. The delirium gradually increases, till it often arrives at a state of phrenzy. The face becomes turgid, the eyes stare, and seem as if bursting from their sockets, tears, and sometimes even blood, flowing from them: the paand sometimes even blood, flowing from them: the patient, in many cases, resembling a furious maniac, from whom it is often impossible to distinguish him, except by the shorter duration of his complaint. The delirium assists in distinguishing phrenitis and synocha, as it is not a common symptom in the latter. When delirium does attend synocha, however, it is of the same kind as

does a term synctine, nowerer, this or the man in phrenitis.

We should, a priori, expect in phrenitis considerable derangement in the different organs of sense, which so immediately depend on the state of the brain. The eyes are incapable of bearing the light, and false vision, particularly that termed musex voltantes, and flashes particularly that termed muscae voltantes, and flashes of light seeming to dart before the eyes, are frequent symptoms. The hearing is often so acute, that the least noise is intolerable: sometimes, on the other hand, the patient becomes deaf; and the deafness, Saalman observes, and morbid acuteness of hearing, sometimes alternate. Affections of the smell, taste, and touch, are less observable.

As the organs of sense are not frequently deranged in synocha, the foregoing symptoms farther assist the diagnosis between this complaint and phrenitis.

The pulse is not always so much disturbed at an The pulse is not always so much disturbed at an earlier period, as we should expect from the violence of the other symptoms, compared with what we observe in idiopathic fevers. When this circumstance is distinctly marked, it forms, perhaps, the best diagnosis between phrenitis and synocha, and gives to phrenitis more of the appearance of mania. In many cases, however, the fever runs as high as the delirium; then the case often almost exactly resembles a case of vio-lent synocha, from which it is the more difficult to dis tent synocial, and who is the fall and strong. In general, however, the hardness is more remarkable than in synocha, and in many cases the pube is small and hard, which may be regarded as one of the best diagnostics between the two complaints, the pulse in aynochabeing always strong and full. In phrenitis it is somebeing atways strong and run. In pineintus it is some-times, though rarely, intermitting. The respiration is generally deep and slow, sometimes difficult, now and then interrupted with hiccough, seldom hurried and frequent; a very unfavourable symptom. In many of the cases mentioned by Saalman, pneumonia super-

The deglutition is often difficult, sometimes convul-The stomach is frequently oppressed with bile, which is an unfavourable symptom; and complete jaundice, the skin and urine being tinged yellow, some-times supervenes. Worms in the stomach and bowels are also frequent attendants on phrenitis, and there is reason to believe, may have a share in producing it. The hydrocephalus internus, which is more allied to phrenitis than dropsy of the brain, properly so called, seems often, in part at least, to arise from derangement of the prime viæ, particularly from worms. cannot otherwise account for the frequent occurrence of these complaints.

Instead of a superabundance of bile in the primæ viæ, there is sometimes a deficiency, which seems to afford even a worse prognosis. The alvine fæces being of a white colour, and a black cloud in the urine, are regarded by Lobb as fatal symptoms. The clack cloud in the urine is owing to an admixture of blood;

when unmixed with blood, it is generally pale.

There is often a remarkable tendency to the worst species of hemorrhagies, towards the fatal termination of phrenitis. Hemorrhagy from the eyes has already been mentioned. Hemorrhagy from the intestines also, thigging the stools with a black colour, is not uncommon. These hemorrhagies are never favourable; but the hemorrhagies of energy favourables, the stool of the properties of the propertie but the hæmorrhagies characteristic of synocha, partiout the immorrhagies characteristic of synocha, parti-cularly that from the nose, sometimes occur at an earlier period, and, if coplous, generally bring relief. More frequently, however, blood drops slowly from the mose, demonstrating the violence of the disease, with-

nose, demonstrating the violence of the disease, without relieving it. In other cases, there is a discharge of thin mucus from the nose.

Tremours of the joints, convulsions of the muscles of the face, grinding of the teeth, the face from being florid suddenly becoming pale, involuntary tears, a discharge of mucus from the nose, the urine being of a dark red or yellow colour, or black, or covered with a pellicle, the fæces being either bilious or white, and very fætid, profuse sweat of the head, neck, and shoulders, paralysis of the tongue, general convulsions, much derangement of the internal functions, and the symptoms of other visceral inflammations, particularly symptoms of other visceral inflammations, particularly of the pneumonia, supervening, are enumerated by Saalman as affording the most unfavourable prognosis. Saalman as affording the most unfavourable prognosis. The delirium changing to coma, the pulse at the same time becoming weak, and the deglutition difficult, was generally the forerunner of death. When, on the contrary, there is a copious hamorrhagy from the hemorrhoidal vessels, from the lungs, mouth, or even from the urinary passages, when the delirium is relieved by sleep, and the patient remembers his dreams, when the sweats are free and general, the deafness is diminished or removéd, and the febrile symptoms become milder, there are hopes of recovery.

In almost all diseases, if we except those which kill suddenly, as the fatal termination approaches, nearly

suddenly, as the fatal termination approaches, nearly the same train of symptoms supervenes, viz. those de-noting extreme debility of all the functions. Saalman remarks, that the blood did not always show the buffy

Phrenitis, like most other complaints, has sometimes Phrentis, like most other complaints, has sometimes assumed an intermitting form, the fits coming on daily, sometimes every second day. When phrentits terminates favourably, the typhus, which succeeds the increased excitement, is generally less in proportion to that excitement, than in idiopathic fevers; a circumstance which assists in distinguishing phrenitis from

synocha.

The imperfect diagnosis between these complaints is further assisted by the effects of the remedies employ ed. For in phrenitis, in removing the delirium and other local symptoms, the febrile symptoms in general soon abate. Whereas in synocha, although the delirium and headache be removed, yet the pulse continues frequent, and other marks of indisposition remain

for a much longer time.

It will be of use to present, at one view, the circumstances which form the diagnosis between phrenitis and synocha.

Synocha generally makes its attack in the same man-; its symptoms are few and little varied. symptoms at the commencement of phrenitis are often more complicated, and differ considerably in different cases. Derangement of the internal functions is com-

paratively rare in synocha. In phrenitis it almost paratively rare in synocha. In phrenitis it almost constantly attends, and often appears very early. The same observation applies to the derangement of the organs of sense. In synocha, the pulse from the commencement is frequent and strong. In phrenitis, symptoms denoting the local affection often become considerable before the pulse is much disturbed. In phrenitis when the same pulse is much disturbed. In phrenitis when the same pulse is much disturbed. nitis, we have seen that the pulse sometimes very suddenly loses its strength, the worst species of hemorrhagies, and other symptoms denoting extreme debility, showing themselves; and such symptoms are generally the forerunners of death: but that when the terminait is less in proportion to the preceding excitement than in synocha. Lastly, if we succeed in removing the delirium and other symptoms affecting the head, the state of the fever is found to partake of this favourable change more immediately and completely than in synocha, where, although we succeed in relieving the headache or delirium, the fever often suffers little abatement.

With regard to the duration of phrenitis, Eller ob With regard to the duration of parentus, Eiler observes, that when it proves fatal, the patient generally dies within six or seven days. In many fatal cases, however, it is protracted for a longer time, especially where the remissions have been considerable. Upon the whole, however, the longer it is protracted, providing the symptoms do not become worse, the better is the traces.

is the prognosis.

On the first attack of the disease we must begin by bleeding the patient as largely as his strength will permit; it may be productive of more relief to the head. mit: it may be productive of more relief to the head, where the patient cannot spare much blood, if the temporal artery, or the jugular vein be opened; and in the progress of the complaint occasional cupping or leeches may materially assist the other means employed. Active cathartics should be given directly after taking blood, calomel with julap, followed by some saline compound in the infusion of senna, until the bowels are copiously evacuated. The head should be shaved, and kept constantly cool by some evaporating lotion. Antimonial and mercurial preparations may then be given to promote the several discharges, and diminish arterial action: to which purpose digitalis also may powerfully concur. Blisters to the back of the neck, behind the ears, or to the temples, each perhaps successively, when the violence of the disorder is lessened by proper evacuations, may contribute very much to obviate internal mischief. The head should be kept raised, to counteract the accumulation of blood be kept raised, to counteract the accumulation of blood be kept raised, to counteract the accumulation of blood and the antiphlogistic regimen must be observed in the fullest extent. Stimulating the extremities by the pediluvium, sinapisms, &cc. may be of some use in the decline of the complaint, where an irritable state Of the brain appears.

PHRENETI ASIS. See Phrenitis.

PHRENSY. See Phrenitis.

PHTHEIRI'ASIS. (From obeio, a louse.) Phthiriasis.

Phtheriasis.

PHTHEI RUM. See Phtheiroctonum.

PHTHEIRO CTONUM. (From φθειρ, a louse, and κτεινω, to kill; because it destroys liee.) Phtheirium. The herb Staves-acre. See Delphinium staphisagria. PHTHIRI ASIS. (From φθειρ, a louse.) Morbus pediculosus; pediculatio; phtheiriasis. A disease in which several parts of the body generate liee, which often puncture the skin, and produce little sordid

PHTHISIS. (From  $\phi\theta\iota\omega$ , to consume.) Tabes pulmonalis. Pulmonary consumption. A disease represented by Dr. Cullen as a sequel of hæmoptysis: it is known by emaciation, debility, cough, hectic fever, and

purulent expectoration.

Species: 1. Phthisis incipiens, incipient, without an expectoration of pus.

- 2. Phthisis humida, with an expectoration of pus.
  3. Phthisis scrophulosa, from scrofulous tubercles in the lungs, &c.
- 4. Phthisis homoptoica, from hamoptysis, 5. Phthisis exanthematica, from exanthemata.
- Phthisis chlorotica, from chlorosis.
- Phthisis syphilitica, from a venereal ulcer in the

The causes which predispose to this disease are very rumerous. The following are, however, the most general: hereditary disposition; particular formation of the body, obvious by a long neck, prominent shoulders,

and narrow cheet; ecrofulous diathesis, indicated by a fine clear skin, fair hair, delicate rosy complexion, large veins, thick upper lip, a weak voice, and great sensibility; certain diseases, such as syphilis, sorrolla, gensionly, certain use assess such as a panta, seronia, the small-pox, and measles; particular employments, exposing artificers to dust, such as needle-pointers, atone-cutters, millers, &c. or to the fumes of metals or minerals under a confined and unwholesome air; viominerals under a commen and unwinerants under a commen and per passions, exertions, or affections of the mind, as grief, disappointment, anxiety, or close application to study, without using proper exercise; frequent and excessive debaucheries, late watching, and drinking freely of strong liquors: great evacuations, as diarrhea, diabetes, excessive venery, fluor albus, immoderate discharge of the menstrual flux, and the continuing to suckle too long under a debilitated state; and, lastly, the application of cold, either by too sudden a lastly, the application of cold, either by too sudden a change of apparel, keeping on wet clothes, lying in damp beds, or exposing the body too suddenly to cool air, when heated by exercise; in short, by any thing that gives a considerable check to the perspiration. The more immediate or occasional causes of phthisis are, hemoptysis, pneumonic inflammation proceeding to suppuration, catarrh, asthma, and tubercles, the last of which is by far the most general. The incipient symptoms usually vary with the cause of the disease: symptoms usually vary with the cause of the disease; but when it arises from tubercles, it is usually thus marked: it begins with a short dry cough, that at length becomes habitual, but from which nothing is spit up for some time, except a frothy mucus that seems to proceed from the fauces. The breathing is at the same time somewhat impeded, and upon the least bodily motion is much hurried: a sense of straitness, with oppression at the chest, is experienced: the body becomes gradually leaner, and great languor, with indolence, dejection of spirits, and loss of appetite, prevail. In this state the patient frequently continues a considerable length of time, during which he is, however, more readily affected than usual by slight colds, and upon one or other of these occasions the cough becomes more troublesome and severe, particularly by night, and it is at length attended with an ex-pectoration, which towards morning is more free and copious. By degrees the matter which is expectorated becomes more viscid and opaque, and now assumes a greenish colour and purulent appearance, being on many occasions streaked with blood. In some cases, a more severe degree of hæmoptysis attends, and the patient spits up a considerable quantity of florid, frothy blood. The breathing at length becomes more difficult, and the emaciation and weakness go on increasing With these, the person begins to be sensible of pain in With these, the person begins to be sensible of pain in some part of the thorax, which, however, is usually felt at first under the sternum, particularly on coughing. At a more advanced period of the disease, a pain is sometimes felt on one side, and at times prevails in so high a degree, as to prevent the person from lying easily on that side; but it more frequently happens, that it is felt only on making a full inspiration, or coughing. Even where no pain is felt, it often happens that those who labour under phthis cannot lie easily on one or other of their sides, without a fit of coughing being excited, or the difficulty of breathing being much increased. At the first commencement of the disease, the pulse is often natural, or perhaps is being much increased. At the first commencement of the disease, the pulse is often natural, or perhaps is oft, small, and a little quicker than usual; but when the symptoms which have been commerated have subsisted for any length of time, it then becomes full, hard and frequent. At the same time the face flushes, par-ticularly after eating; the palms of the hands, and soles of the feet, are affected with burning heat; the respiration is difficult and laborious; evening exacer-bations become obvious, and, by degrees, the fever assumes the heetic form. This species of fever is evi-dently of the remittent kind, and has exacerbations twice every day. The first occurs usually about noon, and a slight remission ensues about five in the after-noon. This last is, however, soon succeeded by annoon. This last is, however, soon succeeded by an-other exacerbation, which increases gradually until after midnight; but, about two o'clock in the morning, after midnight; but, about two o'clock in the morning, a remission takes place, and this becomes more apparent as the morning advances. During the exacerbations the patient is very sensible to any coolness of the air, and often complains of a sense of cold when his skin is, at the same time, preternaturally warm. Of these exacerbations, that of the evening is by far the most considerable. From the first appearance of the

hectic symptoms, the urine is high coloured, and denosites a copious branny red sediment. The appetite, however, is not greatly impaired, the tongue appears clean, the mouth is usually moist, and the thirst is inclean, the mouth is usually moist, and the thirst is in-considerable. As the disease advances, the faunce put on rather an inflamed appearance, and are beset with aphthe, and the red vessels of the tunica admata be-come of a pearly white. During the exacerbations, a florid circumscribed redness appears on each cheek; but at other times the face is pale, and the countenance somewhat dejected. At the commencement of hectic fever, the belly is usually costive; but in the more advanced stages of it a diarrhea often comes on, and this continues to recur frequently during the remainder of the disease; colliquative sweats likewise break out, and these alternate with each other, and induce vast debility. In the last stage of the disease the emaciation is so great, that the patient has the appearance of a walking skeleton; his countenance is altered, his cheeks are prominent, his eyes look hollow and languid, his hair falls off, his nails are of a livid colour, and much incurvated, and his feet are affected with ordematous swellings. To the end of the disease the ordematous swellings. To the end of the disease the senses remain entire, and the mind is confident and full of hope. It is, indeed, a happy circumstance attendant on phthisis, that those who labour under it are seldom apprehensive or aware of any danger; and it no uncommon occurrence to meet with labouring under its most advanced stage, flattering themselves with a speedy recovery, and forming dis-tant projects under that vain hope. Some days before death the extremities become cold. In some cases a delirium precedes that event, and continues until life is extinguished.

As an expectoration of mucus from the lungs may possibly be mistaken for purulent matter, and may thereby give us reason to suspect that the patient labours under a confirmed phthisis, it may not be amiss to point out a sure criterion, by which we shall always able to distinguish the one from the other. medical world are indebted to the late Mr. Charles

medical world are indented to the late Mr. Charles Darwin for the discovery, who has directed the experiment to be made in the following manuer:

Let the expectorated matter be dissolved in vitriolic acid, and in caustic lixivium, and add pure water to both solutions. If there is a fair precipitation in each, it is a certain sign of the presence of pus; but if there is not a precipitate in either, it is certainly manual.

Sir Everard Home, in his dissertation on the properties of pus, informs us of a curious, but not a decisive mode of distinguishing accurately between pus and animal mucus. The property he observes, which characterizes pus, and distinguishes it from most other substances, is, its being composed of globules, which are visible when viewed through a microscope; whereas animal mucus, and all chemical combinations of animal substances, appear in the microscope to be made up of flakes. This property was first ne-ticed by the late Mr. John Hunter.

Pulmonary consumption is in every case to be considered as attended with much danger; but it is more so when it proceeds from tubercles, than when it arises in consequence either of hæmoptysis, or pneumonic suppuration. In the last instance, the risk will be greater where the absess breaks inwardly, and gives rise to empyema, than when its contents are discharged Even cases of this nature have, howby the mouth. by the mouth. Even cases of this nature have, how-ever, been known to terminate in immediate death. The impending danger is generally to be judged of, however, by the hectic symptoms; but more particu-larly by the fostor of the expectoration, the degree of emaciation and debility, the colliquative sweats, and the diarrhica. The disease has, in many cases, been found to be considerably retarded in its progress by pregnancy; and in a few has been alleviated by an autock of mania. attack of mania

The morbid appearance most frequently to be met with, on the dissection of those who die of phthisis, is with, on the dissection of those who die of phthisis, is the existence of tubercles in the cellular substance of the lungs. These are small tumours which have the appearance of indurated glands, are of different sizes, and are often found in clusters. Their firmness is usually in proportion to their size, and when laid open in this state they are of a white colour, and of a consistence nearly approaching to cartilage. Although indolent at first, they at length become inflamed, and fastly form little abscesses or vomicæ, which breaking, | and pouring their contents into the bronchia, give rise to a purulent expectoration, and thus lay the founda tion of phthisis. Such tubercles or vomices are most usually situated at the upper and back part of the lungs; but in some instances they occupy the outer part, and then adhesions to the pleura are often part, a formed.

When the disease is partial, only about a fourth of When the disease is partial, only about a foliation the upper and posterior part of the lungs is usually found diseased; but, in some cases, life has been protracted till not one-twentieth part of them appeared, on dissection, fit for performing their function. A singular observation, confirmed by the morbid collections of the other affects that the lab labels is much observation. anatomists, is, that the left lobe is much oftener affected than the right. The indications are,

1. To moderate inflammatory action.

2. To support the strength, and promote the healing of ulcers in the lungs.

To palliate urgent symptoms.

The first object may require occasional small bleedings, where the strength will permit, in the early pe angs, where the strength win permit, in the early per-riod of the disease; but in the scrofulous this measure is scarcely admissible. Eocal pain will more fre-quently lead to the use of cupping, with or without the scarificator, leeches, blisters, and other modes of de-triving the nervous energy, as well as blood, from the scat of the disease. The bowels must be kept soluble by centle laxatives, as cassia, manna, sulphate of mar-nesia, &c.: and displioresis promoted by saline medi-cines, or the pulvis ipecacuanhe compositus. The occasional use of an emetic may benefit the patient by promoting the function of the skin, and expectoration, especially where there is a wheezing respiration The inhalation of steam, impregnated, perhaps, with hemlock, or ether, may be useful as soothing the lungs, and facilitating expectoration. Certain sedative remedies, particularly digitalis, and hemlock, have been much employed in this disease; and in so far as they moderate the circulation, and relieve pain, they are clearly beneficial: but too much reliance must not be placed upon them. Certain sedative gases have been also proposed to be respired by the patient, as hydro-gen, &c.; but their utility is very questionable. Among the tonic medicines, the mineral acids are, per hups, the most generally useful; however, myrrh and chalybeates, in moderate doses, often answer a good purpose. But a great deal will depend on a due regu-lation of the diet, which should be of a nutritious lation of the diet, which should be of a nutritious kind, but not heating, or difficult of digestion: milk, especially that of the ass; farinaceous vegetables; accescent fruits; the different kinds of shell-fish; the lichen islandicus, hoiled with milk, &cc., are of this description. Some mode of gestation, regularly em-ployed, particularly sailing; warm clothing; removal ployed, particularly sailing; warm clothing; removal to a warm climate, or to a pure and mild air in this, may materially concur in arresting the progress of the disease, in its incipient stage. With regard to urgen symptoms, requiring palliation, the cough may be allayed by demulcents, but especially mild opiates swallowed slowly; colliquative sweats, by acids, particularly the mineral: diarrhea, by chalk and other astringerts, but most effectually by small doses of online. opium

Phymiss pupille. An amaurosis. Phymio'ria. (From φθορα, an abortion.) Medicines

Physic Prino (From φθορα, an abortion.) Medicines which promote abortion. PHU. (φου, or φεν; from phua, Arabian.) The name of a plant. See Faleriana phu. PHYGETHLON. (From φυα, to grow.) A red and painful tubercle in the arm-pits, neck, and groins. PHYLACTE'RIUM. (From φυλασσω, to preserve.) An annulet or preservative against infection. PHYLLA'NTHUS. (From φυλλογ, a leaf, and ανθος, a flower; because the flowers in one of the original species, now a Hylophytta, grow out of the leaves.) The name of a genus of plants. Class, Momentu. Order. Monudelphia. leaves. The name of a genus of plants. Class, Monacia; Order, Monadelphia.
PHYLLANTHUS EMBLICA. The systematic name of the Indian tree from which the emblic myrobalan is

PHYLLITTIS. (From φυλλον, a leaf: so called because the leaves only appear. See Asplenium scolo-

PHYMA. (From φυω, to produce.) A tubercle on by external part of the body.
PHY'SALIS. (From φυσαω, to inflate: so called

because its seed is contained in a kind of bladder.) The name of a genus of plants. Class, Pentandria; Order, Monogynia.

PHYSALIS ALKEKENGI. The systematic name of the inter cherry. Alkekengi: Halicacahum. This rhysalis Alekkensi: The systematic name of the winter cherry. Alkekengi: Halicacabum. This plant, Physalis—foliis geminis integris acutis cauls herbaceo, inferne subramosa, of Linnaus, is cultivated in our gardens. The berries are recommended as a diuretic, from six to twelve for a dose, in dropsical and

calculous diseases.
PHYSALITE. Prophysalite. A sub-species of primitive topaz of Jameson. A greenish white mineral found in granite in Finbo, in Sweden.

PHYSCO'NIA. (From φυσκων, a big-bellied fellow.)
(hyposarca; Hypersarchidius. Enlargement of the PHYSCO'NIA. (From φυσως, a big-bellied fellow.)
Hyposarca; Hypersarchidass. Enlargement of the
abdomen. A genus of disease in the class Cachesia,
and order Intumescentia, of Cullen; known by a tumour occupying chiefly one part of the abdomen,
increasing slowly, and ueither sonorous nor fluctuating.
Species; 1. Hepatica. 2. Splenica. 3. Renalis. 4.
Uterina. 5. Ab ovario. 6. Mesenterica. 7. Omentalis. 8. Visceralis.
PHYSE'MA. (From φυσω, to inflate.) Physesis.
A windy tumour.

windy tumour.

PHYSE TER. (Physeter, from φυσαω, to inflate: so named from its action of blowing and discharging water from its nostrils.) The name of a genus of whale-fish in the Linnæan system

PHYSETER MACROCEPHALUS. The spermaceti whale. Spermacett, now called in the pharmacoporta Cetaceum, is an oily, concrete, crystalline, semi-transparent matter, obtained from the cavity of the cranium of several species of whales, but principally from the Physeter macrocephalus, or spermaceti whale. It was formerly macrocephalus, or spermacett White. It was formerly very highly esteemed, and many virtues were attributed to it; but it is now chiefly employed in affections of the lungs, prime vize, kidneys, &c. as a softening remedy mixed with muchages. It is also employed by surgeons as an emollient in form of cerates, ointments, &c.

geons as an emollicat in form of cerates, ointments, &c. See also, chahergris, and Balaena macrocephala. PHYSIOGNOMY. (Physiognomia; from φυσις, nature, and γινωσκω, to know.) The art of knowing the disposition of a person from the countenance. PHYSIOLOGY. (Physiologia; from φυσις, nature, and λογως, a discourse.) That science which has for its object the knowledge of the phenomena proper to living bodies. It is divided into Vegetable Physional physiological physiopsis is somptosed in the consideration of vegetable physiopsis is somptosed in the consideration of vegetable physiopsis is somptosed in the consideration of vegetable. logy, which is employed in the consideration of vegetables; into Animal or Comparative Physiology, which treats of animals; and into Human Physiology, of which the special object is man.

PHYSIS. Nature.

PHYSOCE'LE. (From φυσα, wind, and κηλη, a tumour.) A species of hernia, the contents of which are distended with wind. PHYSOCE'PHALUS. (From φυσα, wind, and κεφαλη, the head.) Emphysema of the head. See

PHYSOMETRA. (From φυσαω, to inflate, and μητρα, the womb.) Hysterophyse. A windy swelling of the uterus. A tympany of the womb. A genus of of the uterus. A tympany of the womb. A genus of disease in the class Cacherne, and order Intumescentic, of Cullen; characterized by a permanent elastic swelling of the hypogastrium, from flatulent distention of the womb. It is a rare disease, and seldom admits of a

PHYTEU'MA. (Phyteuma, atis. n.; from φυτευω, to generate: so called from its great increase and growth.) The name of a genus of plants. Class, Pentandria; Order, Monogynia.

PHYTEUMA ORBICULARE. Rapunculus cornicula-is. Horned rampions. By some supposed effica-

cious in the cure of syphilis.
PHYTOLA'CCA. (Phy

cious in the cure of syphilis.

PHYTOLA'CCA. (Phytolacca; from output, a plant, and Aarka, gum lac: so called because it is of the colour of lacca.) The name of a genus of plants.

Class, Decandria; Order, Decagrania.

PHYTOLACCA DECANDRIA. The systematic name of the Pork-physic: Pork-weed; Poke-weed; Redweed of Virginia; Red night-shade; American night-shade. Solunum racemosum americanum; Solunum magnum virginianum rubrum. In Virginia and other parts of America, the inhabitants boil the leaves, and eat them in the magnue of spinach. They are said to eat them in the manner of spinach. They are said to have an anodyne quality, and the juice of the root is violently cathartic. The Portuguese had formerly a trick of mixing the juice of the berries with their red

wines, in order to give them a deeper colour: but it brane, contiguous to the retina and the anterior surface was found to debase the flavour. This was repreof the ciliary processes. was found to decase the havour. This was repre-sented to his Portuguese majesty, who ordered all the stems to be cut down yearly before they produced flowers, thereby to prevent any further adulteration. This plant has been used as a cure for cancers, but to

PHYTOLOGY. (Phytologia. From φυτον, an herb, and λογος, a discourse.) That part of the science of natural history, which treats on plants. PHYTOMINERALIS. (From φυτον, a plant, and mineralis, a mineral.) A substance of a vegetable and

mineral nature; as amber.

PI'A MATER. (Pia mater, the natural mother; ri A Mai Ell. (Pla mater, the natural mother; so called because it embraces the brain, as a good mother folds her child.) Localis membrana; Meninx tenuis. A thin membrane, almost wholly vascular, that is firmly accreted to the convolutions of the cerebrum, cerebellum, medulla oblongata, and medulla

brum, cerebellum, medulla oblongata, and medulla epinalis. Its use appears to be, to distribute the vessels to, and contain the substance of, the cerebrum.

Pl'CA. (Pica, the magpie: so named because it is said the magpie is subject to this affection.) Picatio; Malacia; Allotriophagia; Citta; Cissa. Longing. Depraved appetite, with strong desire for unnatural food. It is very common to pregnant women and chlorotic girls, and by some it is said to occur in men who labour under supersessed hemorphorits.

chlorotic girls, and by some it is said to occur in men who labour under suppressed hamorrhoids.

Pl'CEA. (Hirvs, pitch.) The common or red fir or pitch tree is so termed. The comes, branches, and every part of the tree, affords the common resin called frankincense. See Pinus abies.

PICNITE. Pyenite. See Schorlite.

Pl'CRIS. (From mkpos, bitter.) The name of a genus of plants. Class, Syngenesia; Order, Polygaria, genules.

mia æquales.

maa equates.

Picris echoldes. The name of the common oxtongue. The leaves are frequently used as a pot-herb by the country people, who esteem it good to relax the

howels.

PICROMEL. (From muspos, bitter, and meyer, honey: so called from its taste.) The characteristic principle of bile. If sulphuric acid, diluted with five parts of water, be mixed with fresh bile, a yellow precipitate will fall. Heat the mixture, then leave it in repose, and decant off the clear part. What remains was formerly called resin of bile; but it is a greenish compound of sulphuric acid and picromel. Edulcorate it with water, and digest with carbonate of barytes. The picromel now liberated will dissolve in the water. On exponenting the solution, it is obtained in a solid state. evaporating the solution, it is obtained in a solid state. Or by dissolving the green sulphate in alkohol, and digesting the solution over carbonate of potassa till it cease to redden litmus paper, we obtain the picromel combined with alkohol.

It resembles inspissated bile. Its colour is greenish-yellow; its taste is intensely bitter at first, with a suc-ceeding impression of sweetness. It is not affected by influsion of galls; but the salts of iron and subacetate of lead precipitate it from its aqueous solution. It affords no ammonia by its destructive distillation. Hence the absence of azote is inferred, and the pecu-

liarity of picromel. PICROTOXIA. Picrotoxine. The poisonous prin-

PICKOTONIA. PICTOTONIA. The poisonous principle of the cocculus indicus. See Menispermum cocculus, and Cocculus indicus.

PICTO'NIUS. (From the Pictones, who were subject to this disease.) Applied to a species of colic. It should be rather called colica pictorum, the painter's colic, because, from their use of lead, they are much

afflicted with it.

Pie'strum. (From nie's, to press.) An instrument to compress the head of a dead fætus, for its more easy

extraction from the womb.

Pig-nut. The bulbous root of the Bunium bulbocastanum, of Linnæus: so called because pigs are very

castanum, of Linneus: so called because pigs are very fond of them, and will dig with their snouts to some depth for them. See Bunium bubbocastanum.

PIGME'NTUM. (From pingo, to paint.) Pigment.

This name is given by anatomists to a mucous substance found in the eye, which is of two kinds. The pigment of the iris is that which covers the anterior and posterior surface of the iris, and gives the beau-tiful variety of colour in the eyes. The pigment of the choroid membrane is a black or brownish mucus, and posterior surface of the first and gives the pigment of the choroid membrane is a black or brownish mucus, which covers the anterior surface of the choroid mem-two drachms; subcarbonate of soda, sulphate of iron,

brane, contiguous to the relina and the anterior surface of the ciliary processes.

Pila instructs. The bezoar hystricis.

Pila marina. A species of alcyonium found on sea-coasts among wrack. It is said to kill worms, and, when calcined, to be useful in scrofula.

PILE See Hamorrhois.

PILE-WORTI. See Ramunculus ficaria.

PILEUS. (Pileus, a lial.) That part of a gymnosperm fungus or mushroom, which forms the upper fround part or head; as in Boletus, and Agaricus.

Pi'll CONGENITI. The hair of the head, eyebrows, and eyelids, are so termed, because they grow in

and eyelids, are so termed, because they grow in

PI'LI POSTGENITI. The hair which grows from the surface of the body after birth is so termed, in contradiction to that which appears before birth; as the hair of the head, eyebrows, and eyelids.

PILOSE LLA. (From pilus, hair: because its leaves are hairy.) See Hieracium pilocella.

Pill, alottic, with myrrh. See Pilulæ alots cum

myrrha.

Pill, compound aloëtic. See Pilulæ aloës compositæ.

Pill, compound calomel. See Pilulæ hydrargyri

submuriatis composita.

Pili, compound galbanum. See Pilulæ galbani com-

posite. Pill, compound gamboge. See Pilulæ cambogiæ com-

posita.

Pill, compound squill. See Pilula scilla composita.

Pill of iron with myrrh. See Pilula ferri composita.

Pill, mercurial. See Pilula hydrargyri.

Pill, soap, with opium. See Pilula scponis cum opio.

PILOSUS. Hairy. Applied to the stems, leaves, and receptacles of plants, as that of the Cerastium alpinum; and to the nectary of the Parnassus palustris, which is in form of five hairy fascules at the base of the stamina. The receptacle of the Carthamus tincteries.

PILULA. (Pilula, x, f.; diminutive of pila.) A pill. A small round form of medicine, the size of a pea. The consistence of pills is best preserved by keeping the mass in bladders, and occasionally moist-ening it. In the direction of masses to be thus divided, ening it. In the direction of mississ to be thus divided, the proper consistence is to be looked for at first, as well as its preservation afterward; for if the mass then become hard and dry, it is unfit for that division for which it was originally intended; and this is in many instances such an objection to the form, that it is doubtful whether, for the purposes of the pharmacopæia, the greater number of articles had not better be kept in powder, and their application to the formation of pills. left to extemporaneous direction.

PILULÆ ALOES COMPOSITÆ. Compound aloëtic pills. Take of extract of spike-aloe, powdered, an ounce; extract of gentian, half an ounce; oil of caraway, forty minims; simple syrup, as much as is sufficient. Beat them together, until they form a uniform mass. From fifteen to twenty-five grains prove moderately purga-

tive and stomachic.

PILULE ALOES CUM MYRRHA. Aloetic pills with myrth. Take of extract of spike aloe, two ounces; saffron, myrrh, of each an ounce; simple syrup, as much as is sufficient. Powder the aloes and myrrh separately; then beat them all together until they form a uniform mass. From ten grains to a scruple of this pill, substituted for the pillula Rufi, prove stomachic and laxative, and are calculated for delicate females, especially where there is uterine obstruction.

PILULE AMMONIARETI CUPRI. An excellent tonic and diuretic pill, which may be given with advantage in dropsical diseases, where tonics and diuretics are

indicated.

Indicated.

Pilulæ Camboolæ compositæ. Compound gamboge pills. Take of gamboge powdered, extract of spike-aloe, powdered, compound cinnamon powder, of each a drachm; soap, two drachms. Mix the powders together; then having added the soap, beat the whole together until they are thoroughly incorporated. These pills are now first introduced into the London pharmacopæia, as forming a more active purgative pill than the pil. aloës cum myrrha, and in this way supplying an article very commonly necessary in practice. The dose is from ten grains to a scruple.

they are thoroughly incorporated. These pills answer the same purpose as the mistura ferri composita. The

the same purpose as the miseria.

dose is from ten grains to one scruple.

Pilula Galban composita. Compound galbanum

Pilula Galban composita. Take of pills. Formerly called pilling gummose. Take of galcanum gum resin, an ounce; myrth, sagapruum, of each an ounce and half; asafetida gum resin, half an ounce; simple syrup, as much asis sufficient. Beat them together until they form a uniform mass. A stimulating antispasmodic and emmenagogue. From half a scruple to half a drachm may be given three times a day in nervous disorders of the stomach and intestines, in hysterical affections and hypochondriasis.

PILLULE MYDERREYEL Mercurial pills. Often from its colour called the blue pill. Take of purified mercury, two drachms; confection of red roses, three drachms; liquorice-root, powdered, a drachm. Rub the mercury with the confection, until the globules disthe mercury with the confection, until the globules disappear; then add the liguorice-root, and beat the whole together, until they are thoroughly incorporated. An alterative and auti-venereal pill, which mostly acts upon the bowels if given in sufficient quantity to attempt the removal of the venereal disease, and therefore requires the addition of opium. The dose is from five grains to a scruple. Three grains of the mass contain one of mercury. Joined with the squill pill, it forms an excellent expectorant and alterative, calculated to assist the removal of dropsical diseases of the chest, and asthmas attended with visceral obstruction.

PILULE REDEARGYRI SUBMURIATIS COMPOSITES.

CINDON JULIE OF MERCHAN COMPOSITES.

Submuriate of mercury, precipitated sulphuret of antimony, of each a dractim; guaiscum resin, powdered, two dracthens. Rub the submuriate of mercury, first with the precipitated sulphuret of antimony, then with with the precipitated supporter of antimony, then with the guiacoun resin, and add as much acacia mucilage as may be requisite to give the mass a proper consist-ence. This is intended as a substitute for the famed Plummer's pill. It is exhibited as a alternative in a variety of diseases, especially cutaneous eruptions, pains of the veneral or rheumatic kind, cancerous and schirrous affections, and chronic ophthalmis. The dose is from five to ten grains. In about five grains of the mass there is one grain of the submuriate of mercurv

PILULE SAPONIS CUM OPIO. Pills of soap and opium. PILCLE SAPONIS COMOPIO. THIS OF SOSPAIR OPPORT Formerly called pitular saponaces. Take of hard opium powdered, half an ounce; hard soap, two ounces. Beat them together until they are thoroughly incorporated. The dose is from three to ten grains. Five grains of the mass contain one of opium.

PILULE SCILLE COMPOSITE. Compound squill ills. Take of squill root, fresh dried and powdered, a drachm; ginger-root, powdered, hard soap, of each three drachms ammoniacum, powdered, two drachms. Mix the powders together: then beat them with the soap, adding as much simple syrup as may be sufficient soap, admig as meen simple syrup as may be sometent to give a proper consistence. An attenuant, expectorant, and diurctic pill, mostly administered in the cure of asthma and dropsy. The dose is from ten grains to a scruple

a scruple.

PULOS. (Πιλος, wool carded.)

1. In anatomy the short hair which is found all over the hody. See Capillus.

2. In botany, a hair: which, according to Linnaus, is an exerctory duct of a bristle-like form. They are fine, slender, cylindrical, flexible bodies, found on the first state of the hechageous parts of plants. Some of sturfaces of the herbaceous parts of plants. Some of them are the excretory ducts of glands, but many of them are not; and it is not easy to conceive any satis-factory opinion of their use to the plant.

When placed under the microscope they appear to be membraneous tubes, articulated in the majority of instances, often punctured, and in some plants, as the Berago laxiflora, covered with warts. They are either

simple or undivided, compound or branched

Pili simplices, the most common form of a simple hair is that of a jointed thread, generally too flexible to supportiself, and thus most commonly found bent and waved. According to its degree of firmness, its quantity, and the mode of its application to the surfaces of stems and leaves, it constitutes the characteristic of furfaces! thus, the surface is termed pilosus, or hairy, when the hairs are few and scattered, but conspicuous,

sugar, of each, a drachm. Rub the myrrh with the aubcarbonate of soda; add the sulphate of iron, and rub them again; then beat the whole together until they are thoroughly incorporated. These pills answer when they are so thickly matted that the individual when they are so thickly matted that the individual hairs cannot be distinguished, and when the position of the hair is nearly parallel with the disk, being at the same time straight, or very sightly curved, and thick although unmatted: it constitutes the sikky surface, as is seen on the leaves of Potentilla anserina, and Achemilla alpina. In some instances the simple hair is firm enough to support itself erect; in which case it is usually awl-shaped, and the articulations are shorter towards the base, as in Bryonia alba. It does not always, however, terminate in a point, but sometimes in a small knob, as in the newly-evolved succulent shoots of ligneous plants, Belladonna, &cc. In some instances also, as on the under disk of the leaves of the Symphitum officinale, the simple hair is hooked towards apex; which occasions the velvety feeling when the finger is passed over the surface of those leaves, the convex part of the curve of the hair being that only riety of the simple hair is that which has given rise to riety of the simple hair is that which has given rise to the term glanduloso-cilitata; it is a stender hollow thread, supporting a small, cup-shaped, glandular body, and is rather to be regarded as a stipate gland. 2. Pili compositi are either, plumosus, feathery, which is a simple hair with other hairs attached to it

laterally, as in Hieracium undulatum; or it is ramosus, branched, that is, lateral hairs are given off from common stalks, as on the petiole of the gooseberry leaf, or it consists of an erect firm stem, from the summit of which smaller hairs diverge in every direction, as in Marrubium peregrinum; or it is stellatus, star-like, being composed of a number of simple diverging, awlshaped hairs, springing from a common centre, which is a small knob sunk in the cutis, as on the leaves of marsh mallow. Some authors have applied the term ramenta to small, flat, or stroplike hairs which are found on the leaves of some of the genus Begonia.— See Pubescence.

PIMELITE. A variety of steatite found at Kose-

muitz, in Silesia.

PIME PITA. (From Pimienta, the Spanish fir a Pepper. See Myrtus pimenta.

PIME FITO. See Myrtus pimenta.

PIMPERNEL. See Anagalis arvensis.

PIMPERNEL. See Anagalis arvensis.

PIMPINE LLA. (Quasi bipinella, or bipenula;

PIMPINE LLA. (Quasi bipinella, or bipenula;

from the double pennate order of its leaves.) from the double peanate order of its leaves. 1. The name of a genus of plants in the Linnæan system. Class, Perwandria; Order, Digynia. Pimpinella.

2. The pharmacopeial name of the Pimpinella alba.

and magna.

and magna.

PIMPINELLA ALDA. A variety of the pimpinella magna, the root of which is indifferently used with that of the greater pimpinell. The pimpinella saxifarga was also so called. Pimpinella ANISUM. The systematic name of the anise plant. Anisum: Anisum and present production of the pimpinella anise plant. Anisum: Anisum and special magnature. Pimpinella —folias radicalibus trifidis incesses, of Limmeus. A native of Egypt. Anise seeds have an aromatic smell, and a piecasant, warm, and sweetish taste. An essential oil and distilled water are prepared from them, which are employed in fatulencies and grines, to which childare employed in flatulencies and gripes, to which children are more especially subject; also in weakness of the stomach, diarrhœas, and loss of tone in the pri-

PIMPINELLA ITALICA. The root which bears this

FINENDELLA TRAUCA. The root which bears this name in some pharmacopoias is now fallen into disuse. See Sanguisorba officinalis.

PIMPINELLA MAGNA. The systematic name of the greater pinnpinella. Pimpinella nigra. The root of this plant has been lately extolled in the cure of crysistensia. pelatous ulcerations, tinea, capitis, rheumatism, and other diseases.

PIMPINELLA NIGRA. Sec Pimpinella magna.

PIMPINELLA NIGRA. See Pimpinella magna.
PIMPINELLA NIGRAS. See Pimpinella.
PIMPINELLA SAXIFRAGA. The systematic name of the Eurnet saxifrage. Tragosetinum Several species of pimpinella were formerly used officinally; but the roots which obtain a place in the Materia Medica of the Edinburgh Pharmacopæia, are those of this species the Eminingal Pharmacopolia, are most or in species of saxifinge, the Pimpinella—follis pinnatis, foliolis radicalibus subrotundis, ummis linearibus, of Limeus. They have an unpleasant smell; and a hot, pungent, bitterish taste; they are recommended by several writers as a stomachic; in the way of gamle, spruce fir, which affords the Burgundy pitch and com-they have been employed for dissolving viscid inners, mon frankincense. and to stimulate the tongue when that organ becomes

paralytic.

PINASTE'LLUM. (From pinus, the pine-tree; so called because its leaves resemble those of the pine-tree.) Hog's fennel. See Peucedanum silans.

PINEAL. (Pinealis; from pinea, a pine-apple, from its supposed resemblance to that fruit.) Formed

Hom its supposed resemblance to the runt) Formed like the fruit of the pine.

PIREAL GLAND. Glandula pinealis; Conarium. A small heart-like substance, about the size of a pea, situated immediately over the corpora quadrigemina, situated immediately over the corpora quadrigemina, and hanging from the thalami nervorum opticorum by two crura or peduncies. It use is not known. It was formerly supposed to be the seat of the soul.

PINE-APPLE. See Bromein awanus.

Pine-thistle. See Atrectylis gummifera.

PI'NEUS PURGANS. See Jatropha curcas.

PINGUE'DO. (From pinguis, fat.) Fat. See

PINGUI'CULA. (From pinguis, fat: so called because its leaves are fat to the touch.) The name of a genus of plants. Class, Diandria; Order, Mono-

PINGUICULA VULGARIS. Sanicula montana; Sanicula eboracensis; Viola palustris: Liparis; Cucul-lata; Dodecatheon; Plinii. Butterwort. Yorkshire The remarkable unctuosity of this plant has caused it to be applied to chaps, and as a pomatum to the hair. Decoctions of the leaves in broths are used

by the common people in Wales as a cathartic.

PINHO'NES INDICI. See Jatropha curcas. PINITE. Micarelle of Kirwan. A blackish green mineral, consisting of silica, alumina, and oxide of iron, found in the granite of St. Michael's Mount, Corn-

wall, and in porphyry in Scotland.

PINK, INDIAN. See Spigelia.

PINMA, (Hova, a wing.) 1. The name of the lateral and inferior part of the nose, and the broad part of the ear

the ear
2. The leaflet of a pinnate leaf. See Leaf.
PINNA'CULUM. (Dim. of pinna, a wing.) A pinnacle. A name of the uvula from its shape.
PINNATIFIDUS. Pinnatifid: applied to leaves
which are cut transversely into several oblong parallel segments; as in Ipomosis, and Myriophyllum verti-

PINNATUS. Applied to a leaf which has several leaflets proceeding laterally from one stalk, and imitates a pinnatifid leaf. Of this there are several kinds.

- 1. Folium pinnatum cum impari, with an odd or terminal leaflet; as in roses.

  2. F. p. cirrosum, with a tendril, when furnished with a tendril instead of the odd leaflet; as in the pea and vetch tribe
- 3. F. cbrupte pinnatum, abruptly, without either a terminal leaflet or a tendril; as in the genus Mimosa.

  4. F. opposite pinnatum, oppositely, when the leaflets are opposite or in pairs; as in saintloin, roses, and sium angustifolium.

5. F. alternatim pinnatum, alternately, when they are alternate; as in Viscia dumetorum.

6. F. interrupte pinnatum, interruptedly, when the principal leaflets are ranged alternately with an intermediate series of smaller ones; as in Spiræa filipendula and ulmaria.

7. F. articulate pinnatum, jointedly, with apparent joints in the common foot-stalk; as in Weinmannia

pinnata.

phinata.

8. F. decursive pinnatum, decurrently, when the leaflets are decurrent; as in Eryngium campestre.

9. F. lyrato pinnatum, in a lyrate manner, having the terminal leaflet largest, and the rest gradually smaller as they approach the base; as in Erysimum procox: and with intermediate smaller leaflets; as in Caum rivals, and the seconds. Geum rivale, and the common turnip.

10. F. verticillato pinnatum, in a whirled manner, the leaflets cut into five divaricated segments, embra-

cing the foot-stalk; as in Sium verticillatum.

PINNULA. The leaflet of bi and tripianate PINNULA.

PI'NUS. The name of a genus of plants in the Linnean system. Class, Monacia; Order, Monadelphia. The pine-tree.

PINCS ABIES. Elate; Theleia. The Norway

mon trankincense.

1. Pen arvida. Formerly called Pix burgundica.
1. The prepared resin of
Ponus abres—folius solitariis, subtetragonis acutius Pinus abies—folius soliturius, subtefragonis acutus cubis distectis, ramis infra nudis conis equindraccie, of Linnaus. It is of a solid consistence, yet somewhat soft, of a reddish brown colour, and not disagreeable smell. It is used externally as a stimulant in form of plaster in catarrh, pertussis, and dyspneas.

2. siberis resina; Thus. Common frankincense This is a spontaneous exudation, and is brought in small masses, or tears, chapter Common frankincense that the grant masses, or tears, chapter form Common but perfusion.

This is a spontaneous extingation, and is brought in small masses, or tears, chiefly from Germany, but partly and purest from France. It is applicable to the same purposes as Burgundy pitch, but little used at present. PINUS BAINAMEA. The systematic name of the tree

PINUS BALSAMEA. The systematic name of the tree which affords the Canada balsam. Abus canadensis The Canada balsam is one of the purest turpentines, procured from the Pinus balsamea of Linnaus, and im-PINUS CERRUS. The wood of this species, cedar

wood, is very odorous, more fragrant than that of the

fir, and it possesses similar virtues.

PINES CEMBER. This affords the Carpathian bal-sam. Oleum germanis; Carpathicum. This balsam is obtained both by wounding the young branches of the Pinus-Julis quinus, levibus of Limarus, and by boiling them. It is mostly diluted with turpentine, and comes to us in a very liquid and pellucid state, rather

The systematic name of the tree which gives us the agaric and Venice turpentine. larch-tree. The Venice turpentine issues spontaneously through the bark of the Pinus-foliis fascieulatis mollibus obtusiusculis bracteis extra squamas latis nollibus obtusiusculis bracteis extra squamae strobilorum extantibus. Hort. Kew. It is usually thinner than any of the other sorts; of a clear whitish or pale yellowish colour; a hot, pungent, bitterish, disagreeable taste; and a strong smell, without any thing of the aromatic flavour of the Chian kind. For its virtues, see Turpentine. See also Boletus larcis.

PINCS PICEA. The systematic name of the silver fir. PINCS PINEA. The systematic name of the stone pine-tree. The young and fresh fruit of this plant is cetter in some countries in the same manner a squared.

caten in some countries in the same manner as almonds are here, either alone or with sugar. They are nutritive, aperient, and diuretic.

Prive sylvestris. The systematic name of the Scotch fir. Pinus—foliis geminis rigidis, conis, oratoconicis longitudine foliorum subgeminis basi rotundatis of Linaeus, which affords the following officinals.

1. Common turpentine is the juice which flows out on the tree being wounded in hot weather. See Tur-

pentine.

pentine.
2. From this the oil is obtained by distillation, mostly with water, in which case yellow resin is left; but if without addition, the residuum is common resin, or colophony. The oil is ordered to be purified in the pharmacoposia. See Oleum terebinking rectificatum.

3. When the coal begins to check the exudation of the 3. When the coal begins to check the exudation of the juice, part of this concretes in the wounds; which is collected, and termed galipot in Provence, barras in Guienne, sometimes also white resin, when thoroughly hardened by long exposure to the air. See Resina Rava, and alba.

4. The Piz Liquida, or tar, is produced by cutting the wood into pieces which are acceptanced by the control of the produced by the pr

4. The Pix liquida, or tar, is produced by cutting the wood into pieces, which are enclosed in a large oven constructed for the purpose. It is well known for its economical uses. Tar-water, or water impregnated with the more soluble parts of tar, was some time ago a very fashlonable remedy in a variety of complaints, but is in the present practice failen into disuse.

5. Common pitch is tar inspissated; it is now termed in the charmageneria. Resina piero.

Common pitch is tar inspissated; it is now termed in the pharmacopecia, Resina nigra.
 PIPER. (Παπερι; from πεπτω, to concoct; because by its heat it assists digestion.) Pepper. The name of a genus of plants in the Linnæan system. Class, Diandria; Order, Trigymia.
 PIPER ALDEM. See Piper nigrum.
 PIPER BRASILIANEM. See Capsicum annuum.
 PIPER CALECUTICUM. See Capsicum annuum.
 PIPER CALECUTICUM. See Murius primenta.

PIPER CARECUTION. See Myrtus pimenta PIPER CAUDATUM. See Piper cubeba. PIPER CUBZBA. The plant, the berries of which are

called cubebs. Piper caudatum; Cumamus. Piper-foliis oblique ovatis, seu oblongus venosis acutis, spica solitaria pedunculata oppositifolia, fructibus pedicel-

latis, of Linnaus. The dried berries are of an ash-brown colour, generally wrinkled, and resembling pep-per, but furnished each with a stender stalk. They are a warm spice, of a pleasant smell, and moderately pungent taste, imported from Java: and may be ex-hibited in all cases where warm spicy medicines are indicated, but they are interior to pepper. Of late they have been successfully given internally in the cure of venereal gonorrhœa.

venereal gonorrhea.

PIPER DECORTICATUM. White pepper.

PIPER PAVASCI. The clove-berry tree.

PIPER PAVASCI. The clove-berry tree.

PIPER HESPANICUM. See Capsicum annuum.

PIPER INDICUM. See Capsicum annuum.

PIPER LINDICUM. See Capsicum annuum.

PIPER LONGUM. Macropiper; Acapath; Catu-tripali: Pumptim. Long pepper. Piper-folius cordatis petiolatis aessitibusque, of Linnæu. The beriese weins of the maint aperathen while recen and ries or grains of this plant are gathered while green, and dried in the heat of the sun, when they change to a black-it or dark-gray colour. They possess precisely the same qualities as the Cayenne pepper, only in a weaker degree.

Weaker degree.

PIPER DISTAMICUM. See Sedum are.

PIPER MURALL. See Sedum are.

PIPER MURALL. See Sedum are.

PIPER NIGHUM. Melanopper: Molagocodi; J.ada;

Piper aromaticum. Black pepper. This species of
pepper is obtained in the East Indies, from the Piper

- folis ovotis septem-nervisi glabria, petiolis simplicessimis, of Linnaus. Its virtue-are similar to those of
the other peppers. The black and white pepper are
both obtained from the same tree, the difference de
mending on their newporation and digress of naturity. noun obtained from the same tree, the difference de-pending on their preparation and degrees of maturity. Pelletier has extracted a new vegetable principle from black pepper, in which the active part of the grain re-sides, to which the name of piperine is given. To ob-tain it, black pepper was digested repeatedly in alko-hol, and the solution evaporated until a fatty resinous matter was left. This, on being washed in warm water, became of a good green colour. It had a hot and burning taste; dissolved readily in alkohol, less so in ather. Concentrated sulphuric acid gave it a fine scarlet colour. The alkoholic solution after some days in ather. Concentrated sulphuric acid gave it a fine scarlet colour. The alkoholic solution after some days deposited crystals; which were purified by repeated crystalization in alkohol and ather. They then formed colourless four-sided prisms, with single inclined terminations. They have scarcely any taste. Boiling water dissolves a small portion; but not cold water. They are soluble in acetic acid, from which combination feather-formed crystals are obtained. This substance fuses at 2120 F. The fatty matter left after extracting the piperine, is solid at a temperature near 320, but liqueties at a slight heat. It has an extremely bitter and acrid taste, is very slightly volatile, tending rather to decompose than to rise in vapour. It may be considered as composed of two oils, one volatile and balsamic; the other more fixed, and containing the acrimony of the pepper.

Piper nigrum. PIPERI'TIS.

Piper nigrum.

PIPERI'TIS. (From piper, pepper: so called because its leaves and roots are biting like pepper to the taste.)

The herb dittany or lepidium and peppermint.

PIPERITIE. (From piper; pepper.) Peppered.

PIPERITÆ. The name of an order of plants in Linnæus's Fragments of a Natural Method, consisting of the Piper, and such as, like it, have flowers in a thick spike.

PIRAMIDALIA CORPORA. See Corpus pyramidale. PIRAMIDA'LIS. (So called from its form.) Of a

pyramidal figure.

See Leontodon taraxacum.

(Pisiformis; from pisum, a pea, and PISIFORM. forma, likeness.) Pea-like.
PISIFO RME OS. The fourth bone of the first row

of the carpus. " PISOLITE. This variety of carbonate of lime occurs in globular or spheroidal concretions, usually about the size of a pea, though sometimes larger. These concretions are composed of distinct, concentric

layers, and almost invariably contain a grain of sand, or some other foreign substance, as a nucleus. The pisolite is nearly or quite opaque, and has a dull fracture. Its colour is usually white, often dull or with a

shade of yellow, &c.

"These concretions, sometimes detached and scattered are more frequently united by a calcareous

Thus united, they form masses of various sizes, and also continuous beds, which are sometimes covered with alluvial deposites.

"The pisoine has been found chiefly near the warm rings of Carlsbad in Bohemia, and the baths of St.

Philip in Tuscany

"The structure of the pisolite, and the situation in which it is found, seem to indicate the mode of formation. The particles of sand, or nuclei of these concretions, were probably raised and suspended by an agitated or rotary motion of certain springs or streams, strongly impregnated with calcareous particles. particles were then deposited around the floating nu-clei, which, being thus incrusted with a series of cter, which, being thus incrusted with a series of layers, became sufficiently heavy to fall through the fluid."—cleare. Mov. A.]
PISMIRE. See Former rafa.
PISSASPHA LUVS. (From πεσα. pitch, and ασφαλτος, bitumen.). The thicker kind of rock-oil.
PISTA-Cit. (Heave, suppose to be a Swinn PISTA-Cit.).

bitumen.) The thicker kind of rock-oil.

PISTA'CIA. (Hczaka. supposed to be a Syrian word.) The name of a genus of plants in the Linnean system. Class, Piaceia; Order, Pentandria.

PISTACIA LEXTISCES. The systematic name of the tree which affords the mastich. Mastiche; Mastic, Pistacia.—foliis abruptė pinnatis, foliolis lanceolatis, of Linnaus. A native of the south of Europe. In the island of Chio, the officinal mastich is obtained most abundantly; and, according to Tournefort, by making transverse incisions in the bark of the tree, from whence transverse incisions in the bark of the tree, from whence the masticle exides in drops, which are suffered to run down to the ground, when, after sufficient time is allowed for their concretion, they are collected for use. Mastich is brought to us in small, yellowish, transparent, brittle tears, or grains; it has a light agreeable smell, especially when rubbed or heated; on being chewed, it first crumbles, soon after sticks together, and becomes soft and white, like wax, without impress ing any considerable taste. No volatile oil is obtained from this substance when distilled with water. Pure alkohol and oil of turpentine dissolve it; water scarcely acts upon it; though by mastication it becomes soft and tough, like wax. When chewed a little while, however, it is white, opaque, and brittle, so as not to be softened again by chewing. The part insoluble in alkohol much resembles in its properties caoutchouc. is considered to be a mild corroborant and adstringent; and as possessing a balsamic power, it has been recommended in hæmoptysis, proceeding from ulceration, leucorrhœa, debility of the stomach, and in diarrhœas and internal ulcerations. Chewing this drug has likewise been said to have been of use in pains of the teeth and gums, and in some catarrhal complaints; it is, heaviever, in the present day, seldom used either externally or internally. The wood abounds with the resinous principle, and a tincture may be obtained from it, which is esteemed in some countries in the cure of hæmorrhages, dysenteries, and gout.

nemorrhages, aysenteries, and gout.
PISTACIA NUK. See Pistacia vera.
PISTACIA TEREBINITIUS. The systematic name of the tree which gives out the Cyprus turpentine. Terebinthina de Chio. Chio or Chian turpentine. This substance is classed among the resum. It is procured by wounding the bark of the trunk of the tree. The best Chio turpentine is about the consistence of honey, very tenacious, clear, and almost transparent; of a white colour, inclining to yellow, and a fragrant smell,

white colour, inclining to yellow, and a fragrant smell, moderately warm to the taste, but free from acrimony and bitterness. Its medicinal qualities are similar to those of the other turpentines. See Turpentines.

PISTACIA VERA. The systematic name of a large tree, which affords the pistachio-nut. Pistacia verafolisis impari pinatis—foliolis subovatis recurvis, of Linneus. An oblong pointed nut, about the size and shape of a filbert, including a kernel of a pale greenish colour covered with a vellow or greenish skin. Pistacia. colour, covered with a yellow or greenish skin. chio-nuts have a sweetish unctuous taste, resembling that of sweet almonds, and, like the latter, afford an oil,

and may be formed into an emulsion.

Pistachio-nut. See Pistacia vera.

PISTACITE. See Epidote.
PISTILLUM. (Pistillum, a pestle, from its likeness.) A pistil or pointal: the temale genital organ of a flower, which, being no less essential than the male. stands within them in the centre of the flower. Linnuus conceived the pistil originated from the pith, and the stamens from the wood, and hence constructed an ingenious hypothesis relative to the propagation of

vegetables, which is not destitute of observations and account of this appearance is conformable to experianalogies to support it, but not countenanced by the
anatomy and physiology of the parts.

| account of this appearance is conformable to experience; and the two varieties of it which they have
pointed out may be denominated, Pitgriasis capitis,

A pistil consists of three parts

The germen, or rudiment of the young fruit and

seed, which of course is essential.

2. The stylus, or style, various in length and thick-

ness, sometimes wanting, and, when present, serving merely to elevate the third part. 3. The stigma, which is indispensable.

tiana tabacum has these organs well displayed. tiana tabacum has these organs well displayed.

PISTOLO'CHLA. (From πιχος, faithful, and λοχεια,
parturition: so called because it was thought to promote delivery.) Birthwort. See Aristolochia.

PISUM. (An ancient name, the origin of which is
lest in its antiquity.) The name of a genus of plants.

Class, Diadelphia; Order, Decandria. The pea.

PISUM SATIVUM. The common pea. A very nutritious, but somewhat flatulent article of food.

PITCAIRM. Anceumann was horn at Ediphurch in

hous, our somewhat facturent arricle of food.

PITCAIRN, Architesald, was born at Edinburgh, in
1652. He applied to the study of divinity, and afterward of the law, in that university, with such intensity, that he was threatened with symptoms of consumption, for the removal of which he went to Montpelier, where his attention was diverted to medicine; on his return, he applied himself zealously to the mathematics, which appearing to him capable of elucidating medical subjects, he was determined in consequence to adopt this profession. After attending diligently to the various branches at Edinburgh, he went to complete his medical studies at Paris, and then returned to settle in his native place, where he quickly obtained a large practice and extensive reputation. In 1688 he published a little tract to establish Harvey's claim to the Discovery of the Circulation. About four years after he was in-vited to become professor of physic at Leydeh, which he accepted accordingly; and he ranked among his pupils the celebrated Boerhaave. However, his mathematical illustrations of medicine not being favourably received, he relinquished the appointment in about a year. He returned then to practise at Edinburgh, where his life terminated in 1713. He published while at Leyden, and subsequently, several dissertations to prove the utility of mathematics in medical discussion; which were more than once reprinted. After his death, his lectures were made public, under the title of Elementa Medicina Physico-Mathematica."

Elementa Medicilla: Injstopmatarematica.
PITCH. Pix. See Resina.
Pitch, Burgundy. See Pinus abies.
Pitch, Jews! See Bitumen judaicum.
Pitch-tree. See Pinus abies.
PITCHSTONE. A subspecies of indivisible quartz of a green colour, and vitreo-resinous lustre found in Scotland and Ireland.

PITTA'CIUM. (From mirra, pitch.) A pitch plaster. PITTIZITE. Pitchy iron ore.

PITTIZITE. Pitchy iron ore.
PITTO TA. (From mirra, pitch.) Medicines in which pitch is the principal ingredient.
PITUI'TA. Phlegm, that is, viscid and glutinous

PITUITARY. Of or belonging to phlegm.

PITUITARY GLAND. Glandula pituitaria. A gland situated within the cranium, between a duplicature of the dura mater, in the sella turcica of the sphenoid

PITUITARY MEMBRANE. Membrana pituitaria. Schneiderian membrane. The mucous membrane that lines the nostrils and sinuses, communicating with the nose, is so called, because it secretes the mucus of those parts, to which the ancients assigned the name

of pituita. PITYRI'ASIS. PITYRI'ASIS. (From πιτυροι, bran: so named from its branny-like appearance.) A genus in the second order, or scaly diseases, of Dr. Willam's cutaneous diseases. The pityriasis consists of irregular patches of small thin scales unhabit research. of small thin scales, which repeatedly form and separate, but never collect into crusts, nor are attended with redness or inflammation, as in the lepra and scaly tet-ter. Dr. Willan distinguishes pityriasis from the porrigo of the Latins, which has a more extensive signifi-cation, and comprehends a disease of the scalp, ter-minating in ulceration; whereas the former is, by the best Greek authors, represented as always dry and scaly. Thus, according to Alexander and Paulus, pityriasis is characterized by "the separation of slight fur-furaceous substances from the surface of the head, or other parts of the body, without ulceration." Their and Pityriasis versicolo

1. Prigrassis capitis, when it affects very young infants, is termed by nurses the dandriff. It appears at the upper edge of the forehead and temples, as a slight whitish scuri set in the form of a horse-shoe; on other parts of the head there are large scales, at a distance parts of the feat there are large senies, it a distance from each other, flat, and semipeducid. Sometimes, however, they nearly cover the whole of the larry scalp, being close together, and imbricated. A similar appearance may take place in adults; but it is insually the effect of lepra, scaly tetter, or some general disease of the skin.

Elderly persons have the pityriasis capitis in nearly the same form as infants; the only difference is, that this complaint in old people occasions larger exfolia-

tions of the cuticle.

2. The pityriusis versicolor chiefly affects the arms, breast, and abdomen. It is diffused very irregularly; and being of a different colour from the usual skin and being of a different colour from the usual skin colour, it exhibits a singular chequaced appearance. These irregular patches, which are at first small, and of a brown or yellow bue, appear at the scrobiculus cordis, about the mamma, clavicles, &c. Enlarging gradually, they assume a tesselated form; in other cases they are branched, so as to resemble the foliaceous lichens growing on the bark of trees; and sometimes when the discoloration is not continuous, they suggest the idea of a map being distributed on the skin like islands, continents, peninsulas, &c. All the discoloured parts are slightly rough, with minute scales, which soon fall off, but are constantly replaced by others. This scurf, or scaliness, is most conspicuous on the sides and epigastric region. The cuticular lines on the sides and epigastric region. are somewhat deeper in the patches than on the contiguous parts; but there is no elevated border, or distinguishing boundary between the discoloured part of the skin, and that which remains its natural colour The discologation rarely extends over the whole body, It is strongest and fullest round the umbilious, on the breasts, and sides; it seldom appears in the skin over the sternum, or along the spine of the back. Interstices of proper skin colour are more numerous, and largest at the lower part of the abdomen and back, where the scales are often small, distinct, and a little depressed. The face, nates, and lower extremities are least affected; the patches are found upon the arms but mostly on the inside, where they are distinct and of different sizes. The pityriasis versicolor is not a cuticular disease; for when the cuticle is abraded from any of the patches, the sallow colour remains as be-fore in the skin or rete mucosum. This singular appearance is not attended with any internal disorder, pearance is not attended with any internal disorder, nor with any troublesome symptom, except a little itching or irritation felt on getting into bed, and after strong exercise, or drinking warm liquors. There is in some cases a slight exanthema, partially distributed among the discoloured patches; and sometimes an appearance like the lichen pilaris; but eruptions of this kind are not permanent, neither do they produce any change in the original form of the complaint. The duration of the pityriasis versicolor is always considerable. Dr. Willan has observed its continuance in some persons for four, five, or six years. It is not limited to persons for four, five, of say years. It is not number to any age or sex. Its causes are not pointed out with certainty. Several patients have referred it to fruit taken in too great quantities; some have thought it was produced by eating mushrooms; others by expo-sure to sudden alterations of cold and heat. In some individuals, who had an irritable skin, and occasionally used violent exercise, the complaint has been produced, or at least much aggravated, by wearing flannel next to the skin. It is likewise often observed in persons who had resided for a length of time in a tropical climate

PIX. (Pix, picis, f.; from πισσα.) Pitch. See Resina.

estru. Pix arida. See Pinus abies. Pix burgundica. See Pinus abies. Pix liquida. Tar or liquid pitch. See Pinus syl-

PLACE'BO. I will please: an epithet given to any medicine adapted more to please than benefit the pa-

PLACE'NTA. (From πλακους, a cake, so called

from its resemblance to a cake.) The afterbirth. The membranes of the ovum have usually been mentioned as two, the amnion and the chorion; and the latter has again been divided into the true and the latter has again been divided into the true and the latter has again the membrane (which, from its appearance, has the blood of the fetter its, with regard to its formation, unconnected with, and total the latter has a consequent of the fetter its, with regard to its formation, unconnected with, and total the latter has a consequent of the fetter its, with regard to the fetter its, with regard to the fetter its, with regard to the fetter its with regard to the fetter its. likewise been called the villous or spongy, and from the consideration of it as the inner lamina of the uterus, cast off like the exuvize of some animals, the decidua,) has been described by Harvey, not as one of the membranes of the ovum, but as a production of the uterus. The following is the order of the membranes of the ovum, at the full period of gestation: 1st, These is the order of the membranes of the ovum, at the full period of gestation: 1st, These is the outer of the ovum. There is the outer or connecting, which is flocculent, spongy, and extremely vascular, completely investing the whole ovum, and lining the uterus. 2dly, The middle membrane, which is nearly pellucid, with a very few small blood-vessels scattered over it, and which forms a covering to the placenta and funis, but does not pass between the placenta and uterus. 3dly, The inner membrane, which is transparent, of a firmer texture than the others, and lines the whole ovum, texture than the others, and lines the whole ovum, making, like the middle membrane, a covering for the placenta and funis with the two last. The ovum is clothed when it passes from the ovarium into the uterus, where the first is provided for its reception.

These membranes, in the advanced state of premancy, cohere slightly to each other, though, in some ova, there is a considerable quantity of fluid collected

between them, which, being discharged when one of the outer membranes is broken, forms one of the cir-cumstances which have been distinguished by the name of by or false waters.

Between the middle and inner membrane, upon or Between the middle and mner memorane, upon onear the funis, there is a small, flat, and oblong body, which, in the early part of pregnancy, seems to be a vesicle containing milky lymph, which afterward becomes of a firm, and apparently fatty texture. This is called the vesicula umbilicalis; but its use is not known.

The placenta is a circular, flat, vascular, and apparently fleshy substance, different in its diameter in different subjects, but usually extending about six inches. or upwards, over about one-fourth part of the outside of the ovum in pregnant women. It is more than one or the ovum in pregnant women. It is more than one inch in thickness in the middle, and becomes gradually thinner towards the circumference from which the membranes are continued. The placenta is the principal medium by which the communication between the parent and child is preserved; but, though all have allowed the importance of the office which it performs,

there has been a variety of opinions on the nature of that office, and of the manner in which it is executed. The surface of the placenta, which is attached to the uterus by the intervention of the connecting membrane, is lobulated and convex; but the other, which is covered with the amnion and chorion, is concave and smooth, except the little eminence made by the blood-vessels. It is seldom found attached to the same part of the uterus in two successive births; and, though part of the uterus in two successive births; and, though it most frequently adheres to the anterior part, it is occasionally fixed to any other, even to the of uteri, in which state it becomes a cause of a dangerous hamorrhage at the time of partunition. The placenta is composed of arteries and veins, with a mixture of pulpy or cellular substance. Of these vessels there are two orders, very curiously interwoven with each other. The first is a continuation of those from the funis The first is a continuation of those from the funis, which ramify on the internal surface of the placenta, the arteries running over the veins, which is a circumstance peculiar to the placenta; and then, sinking into its substance, anastomose and divide into innumerable small branches. The second order proceeds from the uterus: and these ramify in a similar manner with those from the funis, as appears when a placenta is injected from those of the parent. The veins, in their ramifications, accompany the arteries as in other parts. There have been many different opinions with respect to the manner in which the blood circulates between the parent and child, during its continuance in the uterus. For a long time it was believed that the intercourse between them was uninterrupted, and that the blood propelled by the powers of the parent pervaded, by a continuance of the same force, the vascular system of the festus; but repeated attempts having been made, without success, to inject the whole placenta, funis and festus, from the vessels of the parent, or any nart of the uterus. from the vessels of the funis it is broad-leaved plantain. Centinevia; Heptapleurum; 1871.

ly independent of the parent; except that the matter by which the blood of the fætus is formed must be de rived from the parent. It is thought that which has probably undergone some preparatory changes in its passage through the uterus, is conducted by the uterine or maternal arteries of the placenta to some cells or small cavities, in which it is deposited: and that some part of it, or something secreted from it, is absorbed by the festal veins of the placenta, and by them con-veyed to the festus for its nutriment. When the blood which circulates in the festus requires any alteration in its qualities, or when it has gone through the course of the circulation, it is carried by the arteries of the funis to the placenta, in the cells of which it is deposited, and then absorbed by the maternal veins of the suced, and then absoluted by the maternal veins of the placenta, and conducted to the uterus, whence it may enter the common circulation of the parent. Thus it appears, according to the opinion of Harvey, that the placenta performs the office of a gland, conveying air, or secreting the nutritious juices from the plood brought from the parent by the arteries of the uterus, and carried to the fœtus by the veins of the funis, in a manner probably not unlike to that in which milk is secreted and absorbed from the breasts. The veins in the pla-centa are mentioned as the absorbents, because no lymphatic vessels have yet been found in the placenta or funis; nor are there any nerves in these parts; so that the only communication hitherto discovered between the parent and child, is by the sanguineous system. The proofs of the manner in which the blood circulates between the parent and child are chiefly drawn from observations made upon the funis. When it was supposed that the child was supplied with blood in a diposed that the child was supplied with blood in a di-rect stream from the parent, it was asserted that, on the division of the funis, if that part next to the pla-centa was not secured by a ligature, the parent would centa was not secured by a ligature, the parent wound be brought into extreme danger by the hæmorrhage which must necessarily follow. But this opinion, which laid the foundation of several peculiarities in the management of the funis and placenta, is proved not to be true: for, if the funis be compressed immediately after the birth of the child, and while the circulation in it is going on, the arteries between the part compressed and the child throb violently, but those tween the compression and the placenta have no pulsation; but the vein between the part compressed and the placenta swells, and that part next to the fœtus becomes flaccid; but if, under the same circumstances, the funis be divided, and that part next the child be not secured, the child would be in danger of losing its life by the hamorrhage; yet the mother would suffer no inconvenience if the other part was neglected. It is, moreover, proved, that a woman may die of an hamorrhage occasioned by a separation of the placenta, and the child be nevertheless born, after her death, in perfect health. But if the placenta be injured, without separation, either by the rupture of the vessels which pass upon its inner surface, or in any other way, the child being deprived of its proper blood, would perish, yet the parent might escape without

The receptacle of the fructification of plants has been called placenta. See Receptaculum

Place'ntula. (Diminutive of placenta.) A small

placenta.

PLADARO'TIS. (From πλαδαρος, moist, flaccid.) A fungous and flaccid tumour within the eyelid.

Platted leaf. See Plicatus.

PLANTA'GO. (From planta, the sole of the feet: so called from the shape of its leaves, or because its leaves lie upon the ground and are trodden upon.)

1. The name of a genus of plants in the Linnaan system. Class, Tetrandria; Order, Monogynia. The plantain.

2. The pharmacopæial name of the Plantago major.

Polyneuron : Plantago latifolia. Plantago-foliis ovalis glubris, scapo tereti, spica flosculis imbricatis, of Lumaus. This plant was retained until very lately in the Materia Medica of the Edinburgh College, in which the leaves are mentioned as the pharmaceutical part of the plant; they have a weak herbaceous smell, an austere, bitterish, subsaline taste; and their qualities are said to be refrigerant, attenuating, substyptic,

and diuretic.

Plantago Pevillum. The systematic name of the branching plantain. Psylkum, Puticaris herba; Crystatlion, and Cynomoia, of Oribasius. Flea-wort. The seeds of this plant, Plantago—caule ramoso herbaceo, folius subdentatis, recurrentis; capitulis aphyllis, of Linnaus, have a nauseons mucliaginous taste, and no remarkable smell. The decoction of the seeds and no remarkable smell. is recommended in hoarseness and asperity of the fauces.

is recommended in houseness and asperity of the fauces. PLANTAIN See Plantago.
PLANTAIN See Plantago.
PLANTAIN-TREE. See Musa paradisiaca.
PLANTAIN-TREE. See M from between the bones. It is sometimes, though sel dom, found wanting on both sides. This long and This long and stender muscle, which is situated under the gastrocne mius externus, arises, by a thin fleshy origin, from the upper and back part of the outer condyle of the os femoris. It adheres to the capsular ligament of the 'oint; and after running obliquely downwards and outwards, for the space of three or four inches, along the second origin of the gastrocnemius internus, and under the gastrocnemius externus, terminates in a long, thin, and stender tendon, which adheres to the inside of the tendo Achilles, and is inserted into the inside of the posterior part of the os calcis. This tendon sometimes sends off an aponeurosis that loses itself in the capsular ligament, but it does not at all contribute to form the aponeurosis that is spread over the sole of the foot, as was formerly supposed, and as its name would seem to imply. Its use is to assist the gastrocnemii in extend-

inply. Its use is consistent in gastroner the capsular ligament of the knee from being pinehed. PLANTS, SEXTAL SYSTEM OF. The SEXUAL SYSTEM OF plants was invented by the immortal Linnæus, professor of physic and botany at Upsal, in Sweden. ressor of physic and botany at clean, in sweden. It is founded on the parts of fructification, viz the stamens and pistils; these having been observed with more accuracy since the discovery of the uses for which nature has assigned them, a new set of principles has been derived from them, by means of which the distribution of plants has been brought to a greater precisophy, in this system, than in any one of those which preceded it. The author does not pretend to call it a natural system, he gives it as artificial only, and modestly owns his inability to detect the order pursued by desity owns his manifity to detect the order pursued by nature in her vegetable productions; but of this he seems confident, that no natural order can ever be framed without taking in the materials out of which he has raised his own; and urges the necessity of admitting artificial systems for convenience, till one truly natural shall appear. Linnæus has given us his Frag-menta methodi naturalis, in which he has made a dis-tribution of plants under various orders, putting logether in each such as appear to have a natural affinity

to each other; this, after a long and fruitless search after the natural method, he gives as the result of his own speculation, for the assistance of such as may engage in the same pursuit.

engage in the sade pulsatif.
Not able to form a system after the natural method,
Linneaus was more fully convinced of the absolute
necessity of adopting an artificial one. For the student to enter into the advantages this system maintains over all others, it is necessary that he be instructed in the science of botany, which will amply repay him for his inquiry. The following is a short outline of the sexual system

The parts of fructification of a plant are,

1. The calyx, called also the empalement, or flower-

cup. See Calyx, and Anthodium.

2. The corolla, or foliation, which is the gaudy part of the flower, called vulgarly the leaves of the flower. See Corolla.

3. The stamens, or threads, called also the chives; these are considered as the male parts of the flower. See Stamen.

4. The pistil, or pointal, which is the female part See Pistillum

5. The seed-vessel. See Pericarpium.

The seed. See Semen.

7. The receptacle, or base, on which these parts are

seated. See Receptaculum.

seated. See Receptaculum.

The first four, are properly parts of the flower, and the last three parts of the fruit. It is from the number proportion, position, and other circumstances attending these parts of the fructification, that the classes and orders, and the genera they contain, are to be characterized, according to the sexual system.

Such flowers as want the stamens, and have the pistil, are termed female.

Those flowers which have the stamens, and want

the pistils, are called male Flowers which have both staniens and pistils are

said to be hermaphrodite.

Neuter flowers are such as have neither stamens nor pistils

Hermaphrodite flowers are sometimes distinguished Into male hermaphrodites and female hermaphrodites. This distinction takes place when, although the flower contains the parts belonging to each sex, one of them proves abortive or ineffectual; if the defect be in the stamina, it is a female hermaphrodite, if in the pistil, a male one

Plants, in regard to sex, take also their denominations in the following manner

1. Hermaphrodite plants are such as bear flowers upon the same root that are all hermaphrodite.

2. Androgynous plants are such as, upon the same root, bear both male and female flowers, distinct from each other, that is, in separate flowers. 3. Male plants, such as bear male flowers only upon

the same root.

4. Female plants, such as bear female flowers only upon the same root.

5. Polygamous plants, such as, either on the same or on different roots, bear hermaphrodite flowers, and flowers of either or both sexes.

The first general division of the whole body of vegetables is, in the sexual system, into twenty-four classes; these again are subdivided into orders; the orders into genera; the genera into species; and the species into varieties, where they are worthy of note.

## A Table of the Classes and Orders.

## ORDERS. CLASSES. Digynia. Monandria. Monogynia. Trigynia. Monogynia. Digynia. Diandria. Trigynia. Trigyma. Tetragynia. Tetragynia. Monogynia. Digynia. Triandria. Digynia. Monogynia. Tetrandria. Pentagynia. Polygynia. Trigynia. Pentandria. Monogynia. Polygymia. Digynia. Trigynia Tetragynia. Heptagynia. Tetragynia. Trigynia Tetragynia. Hexandria. Monogynia. Heptagynia. Digynia. Heptandria Monogynia. Digynia. Octandria. Monogynia. Trigynia. Hexagynia. Enneandria. Monogynia. Pentagynia. Decagynia. Digynia. Trigynia. 10. Decandria. Monogynia. Dodecagynia. Pentagynia. Trigynia. Digynia. Dodecandria. Monogynia. Pentagynia. Polygynia. Digynia. Trigynia. Icosandria. Monogynia. Pentagynia. Hexagynia. Polygynia Tetragynia. Trigynia. Monogynia. Digynia Polyandria. Gymnospermia. Ang 14. Didynamia. 15. Tetradynamia. Angiospermia. Decandria. Enneandria. Dodecandria. Polyandria. 16. Monadelphia. Pentandria.

CLASSES.

Diadelphia. 18. Polyadelphia.

19. Syngenesia.

20. Gynandria. 21. Monœcia.

22. Diœcia.

23. Polygamia. 24. Cryptogamia. Appendix. ORDERS.

Pentandria. Hexandria. Polyandria.

Polygamia equalis. Polygamia superflua. Polygamia frustranea. Polygamia necessaria. Polygamia egregata. Monogamia. Polygamia segregata. Monogamia. jandria. Triandria. Tetrandria. Pentandria. Hexandria. Decandria. Dodecandria.

Diandria. Polyandria.

Triandria. Tetrandria. Pentandria. Hexandria. Heptandria.

Polyandria, Diandria, Triandria, Tetrandria, remandria, Polyandria, Monadelphia, Syngenesia, Gynandria, Polyandria, Triandria, Tetrandria, Polyandria, Monadelphia, Monadelphia, Polyandria, Monadelphia, Monadelphia andria, Triandria, Tetrandria, Pentandria, Hexandria, Octandria, Decandria, Dodecandria, Polyandria, Monadelphia, Syngenesia. Gynandria,

Monœcia. Diœcia. Triœcia. Filices. Musci. Algæ. Fungi. Palmæ.

PLA'NUM OS. (Planus, soft, smooth; applied to a bone whose surface is smooth or flat.) The papyraceous or orbital portion of the ethmoid bone was for-(Planus, soft, smooth; applied to ce is smooth or flat.) The papymerly so called

PLANUS. Flat. Applied to the receptacle of the fruit of plants; as that of the Helianthus annuus.
PLASMA. A mineral of grass or leek-green colour.

It occurs in beds associated with common calcedony, and found also among the ruins at Rome.
PLASTER. See Emplastrum.

Plaster, ammoniacum. See Emplastrum ammomiaci.

Plaster, ammoniacum, with mercury. See Emplas-trum ammoniaci cum hydrargyro. Plaster, blistering fly. See Emplastrum cantha-

Plaster, compound galbanum. See Emplastrum

galbani compositum. Plaster, compound pitch. See Emplastrum picis compositum.

mpositum. Plaster, cumin. See Emplastrum plumbi. Plaster, lead. See Emplastrum plumbi. See Emplastrum hydrargyri.

Plaster, lead. See Emplastrum plumbi.
Plaster, mercurial. See Emplastrum hydrargyri.
Plaster of opium. See Emplastrum opi.
Plaster of Paris. See Emplastrum resine.
Plaster, resin. See Emplastrum resine.
Plaster, soap. See Emplastrum saponis.
Plaster, waz. See Emplastrum cera.
Plaster, waz. See Emplastrum cera.
Pla TA (From mharve, broad.) The shoulder-blade.
Pla TER, Felix, was borne at Basle, in 1536, his father being principal of the College there. He went to complete his medical studies at Montpelier, where he distinguished himself at an early age, and obtained his doctor's degree at twenty. He then settled in his native place, and four years after was appointed to the chair of medicine, and became the confidential physician of medicine, and became the confidential physician of of medicine, and became the confidential physician of He posthe princes and nobles of the Upper Rhine. sessed an extensive knowledge of the branches of science connected with medicine, and contributed much to the reputation of the University, where he continued a teacher upwards of fifty years. He died in 1614, extremely regretted by his countrymen. The

in 1614, extremely regretted by his countrymen. The following are his principal works: "De Corporis Humani Structura et Usu," in three books; "De Febribus;" "Praxeos Medica, tomi tres;" "Observationum Medicinalium, libri tres."

PLATIA'SMUS. (From πλατυς, broad.) A defect in the speech in consequence of too broad a mouth.

PLA'TINUM. (The name platina was given to this metal by the Spaniards, from the word plata, which signifies silver in their language, by way of comparison with that metal, whose colour it imitates: or from the river Plata, near which it is found.) Platina. A metal which exists in nature, only in a metaltina. A metal which exists in nature, only in a metal-Its ore has recently been found to contain, likewise, four new metals, palladium, iridium, osmium, and shadium, hesides iron and chrome. The largest naewise, four new inetias, pautanium, siriaum, osmium, besides iron and chorme. The largest mass of which we have heard, is one of the size of a pigeon's egg, in possession of the Royal Society of Bergara. If is found in the parishes of Novita and Cirria, north from Choco in Peru, and near Carthagena in South America. In was unknown in Europe before South America. In was unknown in Europe before the year 1748. Don Antonio Ulloa then gave the first information concerning its existence, in the narrative of his voyage with the French academicians to Peru.

"The crude platina is to be dissolved in nitro-muristic acid, precipitated by muriate of ammonia, and exposed to a very violent heat. Then the acid and alkali are expelled, and the metal reduced in an agglutinated state, which is rendered more compact by pressure while red-hot.

Pure or refined platina is by much the heaviest body in nature. Its sp. gr. is 21.5. It is very maileable, though considerably harder than either gold or silver; and it hardens much under the hammer. Its colour on the touchstone is not distinguishable from that of sil-Pure platina requires a very strong heat to melt it; but when urged by a white heat, its parts will adhere together by hammering. This property, which is distinguished by the name of welding, is peculiar to platina and iron, which resemble each other likewise in their infusibility.

Platina is not altered by exposure to air; neither is it acted upon by the most concentrated simple acids,

it acted upon by the most concentrated simple actus, even when boiling, or distilled from it.

The aqua regia best adapted to the solution of platina, is composed of one part of the nitric and three of the muriatic acid. The solution does not take place with rapidity. A small quantity of nitric oxide is disengaged, the colour of the fluid becoming first yellow, and afterward of a deep reddish-brown, which, upon dilution with water, is found to be an intense yellow. This solution is very corrosive, and tinges animal matters of a blackish-brown colour, it affords crystals by evaporation.

Muriate of tin is so delicate a test of platina, that a single drop of the recent solution of tin in muriatic acid gives a bright red colour to a solution of muriate of platina, searcely distinguishable from water.

If the muriatic solution of platina be agitated with ether, the ether will become impregnated with the metal. The ethereal solution is of a fine pale yellow, does not stain the skin, and is precipitable by ammonia.

If the nitro-muriatic solution of platina be precipi-tated by lime, and the precipitate digested in sulphuric tated by lime, and the precipitate digested in sulphuric acid, a sulphuric of plainum will be formed. A subnitrate may be formed in the same manner. According to Chenevix, the insoluble sulphate contains 54.5 oxide of platinum, and 45.5 acid and water; the insoluble muriate, 70 of oxide; and the subnitrate, 89 of oxide; but the purity of the oxide of platinum in these is uncertain.

Platinum does not combine with sulphur directly, but is soluble by the alkaline sulphurets, and precipi tated from its nitro-muriatic solution by sulphuretted hydrogen.

Pelletier united it with phosphorus, by projecting small bits of phosphorus on the metal heated to redness in a crucible; or exposing to a strong heat four parts each of platinum and concrete phosphoric acid with one of charcoal powder. The phosphuret of platinum is of a silvery-white, very brittle, and hard enough to strike fire with steel

Platinum unites with most other metals. Added in the proportion of one-twelfth to gold, it forms a yellow-ish white metal, highly ductile, and tolerably elastic.

Platinum renders silver more hard, but its colour more dull.

Copper is much improved by alloying with platinum. Alloys of platinum with tin and lead are very apt to tarnish.

tarnish.

From its hardness, infusibility, and difficulty of being acted upon by most agents, platinum is of great value for making various chemical vessels. These have, it is true, the inconvenience of being liable to crosion from the caustic alkalies and some of the negrecolate. tral salts.

trat sents.

Platinum is now hammered in Paris into leaves of extreme thinness. By enclosing a wire of it in a little tube of silver, and drawing this through a steel plate in the usual way, Dr. Wollaston has succeeded in producing platinum wire not exceeding 1-3000th of an investing diameter. inch in diameter. 130

There are two oxides of platinum.

1. When 100 parts of the protochloride, or muriate of platinum are calcined, they leave 73.3 of metal 26.7 of chlorine escape. Hence the prime equivalent of the metal would seem to be 12.3. When the above protochloride is treated with caustic potassa, it is resolved into a black oxide of platinum and chloride of potassium. This oxide should consist of 12.3 metal + 1

sium. This oxide should to contain three prime pro-oxygen.

2. The peroxide appears to contain three prime pro-portions. Betzelius obtained it by treating the muritae of platinum with sulphurie acid, at a distilling heat, and decomposing the sulphate by aqueous potassa. The precipitated oxide is a yellowish-brown powder, easily reducible by a red heat to the metallic state. According to E. Davy, there are two phosphurets and three sulphurets of platinum.

The salts of platinum have the following general

 Their solution in water is yellowish-brown.
 Potassa and ammonia determine the formation of small orange-coloured crystals.

3. Sulphuretted hydrogen throws down the metal in

a black powder. Ferroprussiate of potassa and infusion of galls occa-

Ferroprussiate of potassa and intusion of galls occasion no precipitate."
PLATYCO'RIA. (From πλατυς, broad, and κορη, the pupil of the eye.) An enlarged pupil.
- PLATYOFHTHA'LMUM. (From πλατυς, broad, and σθαλμος, the eye: so called because it is used by women to enlarge the appearance of the eye.) An-

PLATYPHY'LLUM. (From πλατυς, broad, and

φυλλου, a leaf.) Broad-leaved.
PLATY'SMA-MYOIDES. (From πλατυς, broad. PLATY'SMA-MYOIDES. (From \( \pi\) arvs, broad, \( \pu\) us, a muscle, and \( \ell\) ioos, resemblance.) Musculus cutoneus, of Winslow. Quadratus genæ vel latissimus colli, of Douglas. Latissimus colli, of Albinus. Quadratus genæ, seu tetragonus, of Winslow; and thoraco maxili facial, of Dumas. A thin muscle on the side of the neck, immediately under the skin, that assist in drawing the skin of the cheek downwards; and when the mouth is shut, it draws all that part of the chief with it is connected below the lower law. skin to which it is connected below the lower jaw, up-

PLE'CTANE. (From πλεκτω, to fold.) The horns

of the uterus.

of the uterus. PLE'CTRUM. (From  $\pi\lambda\eta\tau J\omega$ , to strike: so named from their resemblance to a drum-stick.) The styloid process of the temporal bone, and the uvula. PLEMPIUS, Voriscus Fortonarus, was born at Amsterdam in 1601. He commenced his medical studies at Leyden, then travelled for improvement to Italy, and took his degree at Bologna. He settled as a physician in his native city, and acquired a high repuphysician in his native city, and acquired a fight reputation there; whence he was invited to a professorship at Louvain, whither he repaired in 1633. He adopted, on this occasion, the Catholic religion, and took a new degree, in conformity with the rules of the university. He was soon after nominated principal of the college of Breugel. His death happened in 1671. He increased the reputation of Louvain by the state of the college of the college of the reputation of Louvain by the contract of the state of the college of the college of the reputation of Louvain by the state of the college of the college of the college of the reputation of Louvain by the college of the colle extent of his attainments, and distinguished himself in all the public questions that came under discussion. an the public questions that came under discussion. He was author of many works in Latin and Dutch; in one of which, entitled "Fundamenta, seu Institutiones Medicine," he gave a satisfactory proof of his candour, by strenuously advocating the circulation of the blood, of which he had previously expressed

PLEONASTE. See Celanite.

PLERO'SIS. See Plethora. PLE'SMONE. See Plethora Sec Plethora

PLETHO'RA. (From  $\pi\lambda\eta\theta\omega$ , to fill.) Plesmone. Plerosis. 1. An excessive fulness of vessels, or a redundance of blood. 2. A fulness of habit or body.

PLEU'RA. Il\(\text{Resonant}\) A membrane which lines the internal surface of the thorax, and covers its viscera. It forms a great process, the mediastinum, which divides the three covers of the cov PLEUMO'NIA. See Pneumonia. PLEU'RA. Πλευρα. A mem

called mediastinum: thus divides the cavity into two called mediastinum; thus divides the cavity into two parts, and is attached posteriorly to the vertebre of the back; and anteriorly to the sternum. But the two lamme, of which this septum is formed, do not every where adhere to each other; for at the lower part of the thorax they are separated, to afford a lodgment to the heart; and at the upper part of the cavity they receive begiveen them the thymus gland. The pleura is plentifully sumpled with afteries and wins from the is plentifully supplied with arteries and veins from the is plentifully supplied with arteries and veins from the internal manmary, and the intercostals. Its nerves, which are very inconsiderable, are derived chiefly from the dorsal and intercostal nerves. The surface of the pleura, like that of the peritonacum and other membranes thing cavities, is constantly bedewed with a serous moisture, which prevents adhesions of the viscera. The mediastinum, by dividing the breast into two cavities, chiviates, many inconveniences to which viscera. The meanstitum, by dividing the breast thot two cavities, obviates many inconveniences to which we should otherwise be liable. It prevents the two lobes of the lungs from compressing each other when we lie on one side, and consequently contributes to the freedom of respiration, which is disturbed by the least pressure on the lungs. If the point of a sword pene-trates between the ribs into the cavity of the thorax, trates between the rios into the early of the thorax, the lungs on that side cease to perform their office, because the air being admitted through the wound, prevents the dilatation of that lobe, which is separated from its by the mediastinum, remains unjust and continues to conform its formal. remains unhurt, and continues to perform its functions as usual.
PLEURALGIA. (From πλευρα, and ἀλγος, pain.)

Pain in the pleura, or side

["Pleurisy Root. This species of root is found from Maine to Georgia, and is readily distinguished from other roots, by its bright orange-coloured flowers.
The root when dry is brittle, and easily reduced to powder. Its taste is moderately bitter, and its chief soluble proportions are extractive matter and feecula. It acts medicinally as a mild diaphoretic, expectorant, and subtonic. It has been much used in the United and subtonic. It has been much used in the United States in catarrh, bronchitis, the secondary stages of pneumonia, and in phthisis as a palliative. From some associations of this kind, it is known in many places as pleurisy root. It has the property of producing diaphoresis with less previous heat and excited ment than attends the use of most vegetable sudorifies.

ment than attends the use of most vegetable sudorines. Twenty or thirty grains can be given three times a day, or a gill of the infusion, prepared like that of serpentaria."—Big. Mat. Med. A.]

PLEURI'TIS. (Pleuritis, idis. f.; from πλευρα, the pleura.) Pleurisy, or inflammation of the pleura. A species of pneumonia, of Cullen. See Preumonia. In some instances the inflammation is partial, or affects can place in narricular, which is componly on the one place in particular, which is commonly on the right side; but, in general, a morbid affection is communicated throughout its whole extent. The disease inumerated throughout its whole extent. The masses is occasioned by exposure to cold, and by all the causes which usually give rise to all inflammatory complaints; and it attacks chiefly those of a vigorous constitution and plethoric habit. In consequence of the previous inflammation, it is apt, at its departure, to leave behind a thickening of the pleura, or adhesions to the ribs and intercostal muscles, which either lay the foundation of future neuropoic complaints or rander. foundation of future pneumonic complaints, or render the patient more susceptible of the changes in the state of the atmosphere than before.

It comes on with an acute pain in the side, which is much increased by making a full inspiration, and is accompanied by flushing in the face, increased heat over the whole body, rigore, difficulty of lying on the side affected, together with a cough and nausea, and the pulse is and the pulse is hard, strong, and frequent, and vibrates under the finger when pressed upon, not unlike the tense string of a musical instrument. If blood is drawn, and allowed to stand for a short time, it will exhibit a thick, sizy, or buffy coat on its surface. the disease be neglected at its onset, and the inflammation proceeds with great violence and rapidity, the lungs themselves become affected, the passage of the blood through them is stopped, and the patient is suffo-cated; or, from the combination of the two affections. It forms a great process, the mediastinum, which divides the thorax into two cavities. Its use is to render the surface of the thorax moist by the vapour it exhales. The cavity of the thorax is every where thined by this smooth and glistening membrane, which is in reality two distinct portions or bags, which, by being applied to each other laterally, form the septum abate gradually, if respiration is performed with greater ease and less pain, and a free and copious expectoration ensues, a speedy recovery may be expected. The appearances on dissection are much the same as those mentioned under the head of pneumonia, viz.

an inflamed state of the pleura, connected with the lungs, having its surface covered with red vessels, and a layer of coagulated lymph lying upon it, adhesions, too, of the substance of the lungs to the pleura. Besides these, the lungs themselves are often found in an inflamed state, with an extravasation either of blood or coagulated lymph in their substance. Tubercles and abscesses are likewise frequently met with. See Pneumonia.

PLEUROCOLLE'SIS. (From πλευρα, the pleura, and κολλωφ, to adhere.) An adhesion of the pleura to the lungs, or some neighbouring part.

PLEURODY'NIA. (From πλευρα, and οδυνη, pain.)

A pain in the side, from a rheumatic affection of the charge.

pleura.

PLEURO-PNEUMO'NIA. (From πλευρα, and πνευμονια, an inflammation of the lungs.) An inflammation of the lungs and pleura.

PLEURORTHOPNE'A. (From πλευρα, the pleura,
ροβος, upright, and πνεω, to breathe.) A pleurisy in
which the patient cannot breath without keeping his

PLEUROSTHO TONOS. (From πλευρον, the side,

and reevo, to stretch.) A spasmodic disease, in which the body is bent to one side.

PLE XUS. (From plector, to plait or knit.) A net-work of vessels. The union of two or more nerves

is also called a piexus.

Plexus cardiacus. The cardiac plexus of nerves is the union of the eighth pair of nerves and great

sympathetic. PLEXUS CHOROIDES. The choroid plexus is a net-work of vessels situated in the lateral ventricle of the

PLEXUS PAMPINIFORMIS. The plexus of vessels

about the spermatic chord.

PLEXUS PULMONICUS. The pulmonic plexus is formed by the union of the eighth pair of nerves with the great sympathetic.

A net-work of vessels un-PLEXUS RETICULARIS.

der the fornix of the brain.

PLI CA (From place), to entangle. This disease is commonly distinguished by the adjective Polonica, it being almost peculiar to the inhabitants of Poland.) Helotts; Kolto; Rhopalosts; Plica polonica. Tri-chama. Platted hair. A disease of the hairs, in which they become long and coarse, and matted and glued finto inextricable tangles. It is peculiar to Poland, Lithuania, and Tartary, and generally appears during autumnal season.

the autumnal season.

PLICA'RIA. (From plice, to entangle: so called because its leaves are entangled together in one mass.)

Wolf's-claw, or club moss. See Lycopodium.

PLICATUS. Plaited, folded. A term applied to leaves, when the disk, especially towards the margin,

leaves, when the disk, especially towards the inargin, is acutely folded up and down; as in Malva crispa.

PLINTHUS. IIAvrlos. The fourfold bandage.
PLUM. Prana. Three sorts of plums are ranked among the articles of the materia medica; they are all met with in the gardens of this country, but the shops are supplied with them moderately dried, from abroad. I. The prana brignolensia; the Brignole plum, or prunello, brought from Brignole, in Provence; it is of a coddish vedlew colour, and has a very grateful sweet. pruneilo, brought from Brighole, in Frovence; it is or reddish yellow colour, and has a very grateful, sweet, subacid taste. 2. The pruna gallica; the common or French prune. 3. The pruna damascena, or dameron. All these fruits possess the same general qualities with the other summer fruits. The prunelloes, in which the sweetness has a greater mixture of acidity than in the other sorts, are used as mild refrigerants in fevers and other hot indispositions. The French prunes and damsons are the most emollient and laxative; they are often taken by themselves, to gently move the helly, where there is a tendency to inflammations. Decoctions of them afford a useful basis for laxative or purgative mixtures, and the pulp, in sub-stance, for electuaries.

Plum, Maluhar. See Eugenia jambos.
PLUMBA'GO. (From plumbum, lead: so called because it is covered with lead-coloured spots.) 1. The name of a genus of plants. Class, Pentandria: Or der, Monogynia.

2. Lead-wort. See Polygonum persicaria.
3. Black lead. An ore of a shining blue-black colour, a greasy feel, and turberculated when fractured. See Graphite.

See Graphite.

PLUMBAGE EUROPEA. The systematic name of the tooth-wort. Dentaria; Dentillaria. This plant is to be distinguished from the pellitory of Spain, which is also called dentaria. It is the Plumbago-folius amplexicaulibus, lancolatis scapris, of Linneus. The root was formerly esteemed, prepared in a variety of ways, as a cure for the toothache, arising from caries. Plumbi ACETAS. Cerussa acetata. Plumbi super-

Saecharum saturni, or sugar of lead, from its sweet taste. It possesses sedative and astringent qualisweet taste. It possesses sedative and astringent quali-ties in a very high degree, and is perhaps the most powerful internal medicine in profuse hamorrhages, especially combined with opium; but its use is not entirely without hazard, as it has sometimes produced violent colic and palsy; wherefore it is better not to continue it unnecessarily. The dose may be from one to three grains. It has been also recommended to check the expectoration, and colliquative discharges in others, but will monhably be only of temporary service. phthisis, but will probably be only of temporary service. Externally it is used for the same purposes as the liquor plumbi subacetatis.

PLUMBI ACETATIS LIQUOR. Solution of acetate of PREVENT ACEPTATES LIQUOR. SOMETION of acceptance to lead, formerly called aqua lithrargyri acetatic. Goulard's extract. Take of semi-vitrified oxide of lead, two pounds; acetic acid, a gallon. Mix, and boil down to six pints, constantly stirring; then set it by, that the feculencies may subside, and strain. It is principally employed in a diluted state, by surgeons, as a resolvent against indammatory affections

PLUMBI ACETATIS LIQUOR DILUTUS. Diluted solu-PLUMBI ACENATIS LIQUOR BILUTUS. Diluted source ition of acetate of lead. Aqua lithargyri acetati composita. Take of solution of sab-acetate of lead, a fluid drachm; distilled water, a pint; weak spirit, a fluid drachm. Mix. The virtues of this water, the aqua vegeto-mineralis of former pharmacopeaias, appearance of the property of t plied externally, are resolvent, refrigerant, and seda-

PLUMBI CARBONAS. See Plumbi subcarbonas.
PLUMBI OXYDUM SEMIVITREUM. See Littargyrus.
PLUMBI SUBCARBONAS. Carbonas plumbi. Subcarbonate of lead commonly called cerusse, or white lead bonate of lead commonly called cerusse, or white lead This article is made in the large way in white lead manufactories, by exposing thin sheets of lead to the vapour of vinegar. The lead is curled up and put into pots of earthenware, in which the vinegar is, in such a way as to rest just above the vinegar. Hun-dreds of these are arranged together, and surrounded with dung, the heat from which volatilizes the acetic acid, which is decomposed by the lead, and an imperfect carbonate of lead is formed, which is of a white colour. This preparation is seldom used in medicine or surgery but for the purpose of making other preparations, as the superacetate. It is sometimes employed medicinally in form of powder and ointment, to children whose skin is fretted. It should, however, be cautiously used, as there is great reason to believe that complaints of the bowels of children originate from its psorption. See Pulvis cerussæ compositus. PLU'MBUM. See Lead.

PLUMBUM CANDIDUM. See Tin.

PLUMBUM CINERCUM. Bismuth.
PLUMBUM NIGRUM. Black-lead.
PLUMBUM RUBBUM. The philosopher's stone.
PLUMBUM USTUM. Burnt lead.

PLUMME'RI PILULE. Plummer's pills. A composition of calomel, antimony, and guaiacum. See Pilula

tion of catomer, antimony, antigutate composite.

PLUMULA. (A diminutive of pluma, a feather.)
A little feather. The expanding embryo or germ of a plant within the seed, resembling a little feather. It soon becomes a tuft of young leaves, with which the young stein, if there be any, ascends. See Corculum

and Cotyledon.

Take crow's foot, PLUNKET'S CANCER REMEDY. FIDERET'S CANCER REMEDY. The crows so which grows in low grounds, one handful; dog's fennel, three sprigs, both well pounded; crude brinstone in powder, three middling thimblefuls; white arsenic the same quantity; incorporated all in a mor arsence the same quantity; incorporated and a more tar, and made into small balls the size of a nutneg, and dried in the sun. These balls must be powdered and mixed with the yelk of an egg, and laid over the sore or cancer on a piece of pig's bladder, or stripping of a calf when dropped, which must be cut to the size to the size

of the sore, and smeared with the yelk of an egg. of the sore, and smeared will the yelk of an egg.

This must be applied cautiously to the lips or nose lest
any part of it get down; nor is it to be laid on too
broad on the face, or too near the heart, nor to exceed the breadth of half-a-crown; but elsewhere as far as the sore goes. The plaster must not be stirred until it drops off of itself, which will be in a week. Clean ban-

dages are often to be put on.

PNEUMATIC. (Preumaticus; from πνευμα, wind, relating to air.) Of or belonging to air or gas.

PNEUMATIC APPARATUS. See Apparatus, pneu-

matic.

PNEUMATICÆ. (From πνευμων, the lung.) The name given by Dr. Good, to the second class of discases in his Nosology. Diseases of the respiratory function. It has two orders. Phanica and Pneumonica.

PNEUMATOCE LE. (From πνευμα, wind, and κηλη, a tumour.) Any species of hernia, that is dis-

tended with flatus

PNEUMATO MPHALUS. (From πνευμα, wind, and ομφαλος, the navel.) A flatulent, umbilical

PNEUMATO'SIS. (From πνευματοω, to inflate.) Emphysema. Emphysina. Windy swelling. A genus of disease in the Class Cacheria, and Order Intumescentia, of Cullen, known by a collection of air in the cellular texture under the skin, rendering it tense, elastic, and crepitating. Air in the cellular membrane is confined to one place; but in a few cases, it spreads universally over the whole body, and occasions a considerable degree of swelling. It sometimes arises spontaneously, which is, however, a very rare occurrence, or comes on immediately after delivery, without any evident cause: but it is most generally induced by some wound or injury done to the thorax, and which affects the lungs; in which case the air passes from these, through the wound, into the surrounding cellular membrane, and from thence spreads over the whole body.

Pneumatosis is attended with an evident crackling noise, and elasticity upon pressure; and sometimes with much difficulty of breathing, oppression, and

anxiety.

We are to consider it as a disease by no means unattended with danger; but more probably from the causes which give rise to it, than any hazard from the complaint itself.

The species of pneumatosis are

1. Pneumatosis spontanea, without any manifest

2. Pneumatosis traumatica, from a wound.

2. Pneumalosis traumatica, from a wound.
3. Pneumatosis vanemata, from poissons.
4. Pneumatosis hysterica, with hysteria.
PNEUMO'NIA. (From wrequov, a lung.) Pneumonitis; Peripneumonia; Peripneumonia vera. Inflammation of the lungs. A genus of disease in the Class Pyrezice, and Order Phlegmasiz, of Cullen; characterized by pyrexia, difficult respiration, cough, and a sense of weight and pain in the thorax. The species of pneumonia, according to the above nosolo-

gist, are.

1. Peripneumonia. The pulse not always hard, but cometimes soft: an obtuse pain in the breast: the respiration always difficult; sometimes the patient respiration always difficult; sometimes the patient cannot breathe, unless in an upright posture: the face swelled, and of a livid colour; the cough for the most part with expectoration, frequently bloody.

2. Pleurius. The pulse hard: a pungent pain in one side; aggravated during the time of inspiration; one progregory when leight on one side; and a pungent pain in one side; aggravated during the time of inspiration;

an uneasiness when lying on one side; a very painful cough, dry in the beginning of the disease, afterward with expectoration, and frequently bloody. See

Pleuritis.

With respect to pneumonia, the most general cause of this inflammation is the application of cold to the body, which gives a check to the perspiration, and de-termines a great flow of blood to the lungs. It attacks principally those of a robust constitution and plethoric habit, and occurs most frequently in the winter season and spring of the year; but it may arise in either of the other seasons, when there are sudden vicissitudes from heat to cold.

Other causes, such as violent exertions in singing, speaking, or playing on wind instruments, by producing an increased action of the lungs, have been known to occasion peripneumony. Those who have laboured occasion peripneumony. Those who have laboured under a former attack of this complaint, are much pre-disposed to returns of it.

The true peripneumony comes un with an obtuse pain in the chest or side, great difficulty of breathing. (particularly in a recumbent position, or when lying on the side affected.) together with a cough, dryness of on the side affected,) tagether with a cough, dryness of the akin, heat, anxiety, and thirst. At the first com-mencement of the disease the pulse is usually full, strong, hard, and frequent, but in a more advanced stage at is commonly weak, soft, and often irregular. In the beginning, the cough is frequently dry and with-out expectoration; but in some cases it is moist, even from the first, and the matter spit up is various both in colour and in consistence, and is often streaked with

If relief is not afforded in time, and the inflammation proceeds with such violence as to endanger suffocation, the vessels of the neck will become turgid and swelled the face will alter to a purple colour; an efficient of blood will take place into the cellular substance of the lungs, so as to impede the circulation through that organ, and the patient will soon be deprived of life.

If these violent symptoms do not arise, and the pro-per means for carrying off the inflammation have either heen neglected, or have proved mellectual, although adopted at an early period of the disease, a suppura-tion may ensue, which event is to be known by fre-quent slight quiverings, and an abatement of the pain and sense of fulness in the part, and by the patient being able to lie on the side which was affected, with-

out experiencing great uneasiness.

When peripneumony proves fatal, it is generally by an effusion of blood taking place in the cellular texture of the lungs, so as to occasion suffocation, which usually happens between the third and seventh days; but it may likewise prove fatal, by terminating either in

suppuration or gangrene.

When it goes off by resolution, some very evident evacuation always attends it; such as a great flow of urine, with a copious sediment, diarrhœa, a sweat diffused over the whole body, or a hamorrhage from the nose; but the evacuation which most frequently terminates the complaint, and which does it with the greatest effect, is a free and copious expectoration of thick white or yellow matter, slightly streaked with blood; and by this the disease is carried off generally in the course of ten or twelve days

Our opinion as to the event is to be drawn from the symptoms which are present. A high degree of fever, attended with delirium, great difficulty of breathing, acute pain, and dry cough, denote great danger; on the contrary, an abatement of the febrile symptoms, and of the difficulty of breathing, and pain, taking place on the coming on of a free expectoration, or the happening of any other critical evacuation, promises fair for the recovery of the patient. A termination of the inflammation in suppuration is always to be con-

sidered as dangerous.

On dissection, the lungs usually appear inflamed; on dissection, the long usually appear inname; and there is often found an extravasation, either of blood, or of coagulable lymph, in their cellular substance. The same appearances likewise present themselves in the cavity of the thorax, and within the period. cardium. The pleura, connected with the lungs, is also in an inflated state, having its surface every where crowded with red vessels. Besides these, abscesses are frequently found in the substance of the lungs, as likewise tubercles and adhesions to the ribs are formed. quantity of purulent matter is often discovered also in the bronchia. In the early period of this disease we may hope, by active measures, to bring about immemay note. By active measures, to more advanced, we must look for a discharge by expectoration, as the means of restoring the part to a healthy state. We should begin by large and free bieeding, not deterred the state of the st by the obscure pulse sometimes found in peripneumony, carrying this evacuation to faintness, or to the manifest relief of the breathing. In the subsequent use of this measure, we must be guided by the violence use of this measure, we must be guided by the viotence of the disease on the one hand, and the strength of the patient on the other; the scrofulous, in particular, cannot bear it to any extent; and it is more especially in the early part of the complaint, that it produces a full and decisive effect. Under doubful circumstances it will be better to take blood locally, particularly when there are pleuritic symptoms; with which blisters may co-operate. The bowels must be well evacuated in the first instance, and subsequently kept regular: and antimonials may be given with great advantage com

bined often with mercurials to promote the discharges, especially from the skin and lungs. Digitalis is proper also, as lessening the activity of the circulation. The antipulogistic regimen is to be observed, except that the patient will not bear too free exposure to cold. quiet the cough, demylcents may be of some use or cooling statagogues: but where the urgency of the symptoms is lessened by copions depletion, opiates are more to be relied upon; a little syrup of poppy, for in-stance, swallowed slowly from time to time; or a full dose of opmin may be given at night to procure sleep. joined with caloniel and antimony, that it may not I cat the system, but on the contrary, assist them in promoting the secretions. Inhaling steam will occa-sionally assist in bringing about expectoration; or, where there is a wheezing respiration, squill in narscaling or sometimes even emetic, doses may relieve the patient from the viscid matter collected in the air passages. When the expectoration is copious in the decline of the complaint, tonic medicines, particularly tayorh, with a more nutritious diet, become necessary to support the strength: and the same means will be proper if it should go on to supportation. Where address have occurred, or other organic change, though the symptoms may appear triffing much caution is required to prevent the patient failing into Phinais; on

which subject see the management of that disease: and should serous effusion happen, see Hydrothorax, PNECMONICA. From raceyour, the lung.) The name of the second order of diseases in the Class Pneumatica of Good's Nosology. Diseases affecting the lungs, their membranes, or motive power. It has siv genera, viz. Bex ; Dyspnaa ; Asthma; Ephialtis;

PNEUMOPLEURI TIS. (From ZVEUHWY, the lungs,

and a recervis, an inflammation of the pleura.) An inflammation of the lungs and pleura.

PNIGA'LIUM. (From wirtys, to suffocate.) The nightmare. A disorder in which the patient appears to be sufforated.

Prit. (From wuyw, to suffocate.) A sense of suf-

FSU. Stohn overpo, to the foot, and ayea, a PoDA GRA. From wove, the foot, and ayea, a taking, or seizure.) Febris podagrica. Arthritis; Dudor podagricus; The gout. A genus of disease in the Class Pyrecus, and Order Phlegmasia. of Cullent. known by pyrexia, pain in the joints, chieffy of the great too, or at any rate of the hands and feet, returning at intervals: previous to the attack, the functions of the stomach are commonly disturbed. The species

1. Podagra regularis. Arthritis podagra; Arthritis rachialgica; Arthritis astiva, of Sauvages. The

regular gout.

2. Poaggra atonica. Arthritis melancholica; hie malis; chlorotica; and asthmatica, of Sauvages. The a Podagra retrograda. The retrocedent.
3. Podagra retrograda. Misplaced or wandering

The gout is a very painful disease, preceded usually The goit is a very parmin disease, proceed distantly flattlency, and indigestion, and accompanied by fever pains in the joints of the hands and feet, partienly in that of the great tee, and which returns by peroxysms, occurring chiefly in the spring and beginning of winter. The only disorder for which the eigenbar gout can possibly be mistaken, is the rheumatism; and gout can persony se insection, so insections and cases may occur wherein there may be some diffi-culty in making a just discrimination but the most certain way of distinguishing them will be, to give due consideration to the predisposition in the habit, the symptoms which have preceded the parts affected, the recurrences of the disease, and its connexion with other parts of the system. Its attacks are much coufined to the male sex, particularly those of a corpulent need to the male see, particularly mose of a corphient habit, and robust body; but every now and then we meet with instances of it in robust females. Those who are employed in constant bodily labour, or who live much upon vegetable food, as threwise those who make no use of wine, or other fermented liquors, are seldom afficied with the gout. The disease soldom section afficied with the 20th. The disease scaon appears at an earlier period of life than from five-and-thirty to forty; and, when it does it may be presumed to arise from an hereditary disposition. Indolence, in activity, and too free a use of tartareous wims, fermented liquors, and animal food, are the principal [7].

causes which give rise to the gout; but it may likewise be brought on by great sensuality and excess in vener intense and close application to study, long want of rest, grief, or uneasiness of mind, exposure to cold, too free a use of acidalment in free a use of acidulated liquors, a sudden change from a full to a spare diet, the suppression of any accustomed discharge, or by excessive evacuations; and that it sometimes proceeds from an hereditary disposition, is beyond all doubt, as females who have been

tion, is beyond an doubt, as remaies who have been remarked for their great abstentiousness, and youths of a tender age, have been attacked with it.

1. Podagra regularia. A paroxysm of regular gout sometimes comes on suddenly, without any previous warning; at other times it is preceded by an unusual actions of the foot and long a repression of pressions. coldness of the feet and legs, a suppression of perspiration in them, and numbness, or a sense of prickling along the whole of the lower extremities: and with these symptoms the appetite is diminished, the stomach is troubled with flatulency and indigestion, a degree of torpor and languor is felt over the whole body, great lassitude and fatigue are experienced after the least exrassinute and rangue are experienced are the least ex-ercise, the body is costive, and the urine paillid. On the night of the attack, the patient perhaps goes to bed in tolerable health, and after a few hours is awakened by the severity of the pain, most commonly in the first by the severity of the pain, most commonly in the first joint of the great toe; sometimes, however, it attacks other parts of the foot, the heel, calf of the leg, or per-haps the whole of the foot. The pain resembles that of a dislocated bone, and is attended with the sensa-tion as if cold water was poured upon the part; and this pain, becoming more violent, is succeeded by rigons and other febrile symptoms, together with a severe and other febrile symptoms, together with a severe throbbing and inflammation in the part. Sometimes both feet become swelled and inflamed, so that neither of them can be put to the ground: nor can the patient endure the least motion without suffering excruciating pain. Towards morning, he falls asleep, and a gentle sweat breaks out, and terminates the paroxysm, a sweat orears out, and terminates up paroxysm, a number of which constitutes what is called a fit of the gout. The duration of the fit will be longer or shorter, according to the disposition of the body to the disease, the season of the year, and the age and strength of the patient. When a paroxysm has thus taken place, although there is an alleviation of pain at the expiration of some hours, still the patient is not entirely relieved from it; and, for some evenings successively, he has a return both of pain and fever, which continue, with more or, less violence, until morning. The paroxysms, however, prove usually more mild every day, till at length the disease goes off either by perspiration, urine, or some other evacuation; the parts which have been affected becoming itely, the cuttele failing off in scales from them, and seme slight degree of lameness remaining. At first, an attack of gout occurs, perhaps, only once in two or three years; it then probably comes on every year, and at length it becomes more frequent, and is more severe, and of longer duration, each succeeding fit. In the progress of the disease, number of which constitutes what is called a fit of the requent, and is more severe, and or longer defraction, each succeeding it. In the progress of the disease, various parts of the body are affected and translations take place from one joint, or linh, to another; and, after frequent attacks, the joints lose their strength and devibility, and become so still as to be deprived of all motion. Concretions, of a chalky appearance, are likewise formed upon the outside of the joints, and nephritic affections of the kidneys arise from a depo-site of the same kind of matter in them, which, al-though fluid at first, becomes gradually dry and firm, This matter is partly soluble in acids, but without effervescence; and Dr. Wollaston discovered it not to be carbonate of lime, but a compound of the uric or lithic acid and soda.

Atonic gout. 2. Podagra atonica. happens that, although a gouty diathesis prevails in the system, yet, from certain causes, no inflammatory affection of the joints is produced; in which case, the stomach becomes particularly affected, and the patient is troubled with fiatulency, indigestion, loss of appetite, eructations, nausea, vomiting, and severe pains; and these affections are often accompanied with much dejection of spirits, and other hypochondriacal symptoms. In some cases, the head is affected with pain and gaddiness, and now and then with a tendency to approve and in other cases, the viscera of the thorax suffer from the disease, and palpitations, faintings, and asthum wise. This is what is called atome gout.

3. Pudagera retrograda. Retrocedent gout. It is one happens that, although a gouty diathesis prevails in

times happens, that, after the inflammation has occu-

pied a joint, instead of its continuing the usual time, | to Georgia. and so going off gradually, it ceases suddenly, and is translated to some internal part. The term retrocedent gout is applied to occurrences of this nature. When it falls on the stomach, it occasions nausea, which it tails on the someth, it accesses interest, voniting, anxiety, or great pain; when on the heart, it brings on syncope; when on the lungs, it produces an affection resembling asthma: and, when it occupies the head, it is apt to give rise to apoplexy, or

4. Podagra aberrans, or misplaced gout, is when the gouty diathesis, instead of producing the inflammatory affection of the joints, occasions an inflammatory affection of some internal parts, and which appears from the same symptoms that attend the inflammation of those parts from other causes. All occurrences of this nature, as well as of the two former, are to be re-garded as attacks of irregular gout, and are to be guarded

against as much as possible

In the regular gout, generally, little medical interference is necessary. The antiphiogistic regimen should be observed, in proportion to the strength of the patient, the bowels kept regular, and the part of a moderate temperature, by covering it with flannel, &c.; it may be useful too to promote a gentle diaphoresis. and robust constitutions, where there is no hereditary and robust constitutions, where there is no hereditary tendency to the dresace, and the inflammation and fever run high, more active evacuations may sometimes be required; and, on the contrary, in persons advanced in life, who have suffered much from the disease, and been accustoned to a generous diet, this must be in some degree allowed, even during the paroxysm, to obviate a metastasis; recommending fish in preference to other animal food, and madeira as the least accesent wine. The ambigation of cold to the part is a dispute. The application of cold to the part is a danger ous practice; and it is better to abstain from any local ous practice; and it is better to distain from any local measures, lest the favourable progress of the disease should be interrupted. When the paroxysm is terminated, any remaining stiffness of the joint will probably be gradually removed by friction, &c. With respect to the means of obviating future attacks, the chief dependence is to be placed on abstemiousness, with regular moderate exercise. Proper medicines may be occa-sionally prescribed to remove any dyspeptic symptoms. keep the bowels regular, the skin perspirable, &c. the disease appear to hang about the patient in the atonic form, a more nutritious diet, with tonic or even stimulant medicines, may be required to re-establish the health, which will probably not be accomplished without a paroxysm intervening. The Bath waters have often been found useful under these circumstances. In oftenbeen found useful under these circumstances. In the retrocedent gout, the object is to bring back the inflammation to the joint as soon as possible: for which purpose a sinapism, or other stimulant application, should be put upon the part; while ammonia, aromatics, either warm wine, or brandy and water, &c., are administered internally, in proportion to the urgency of the symptoms; but in general the best form of me-dicine is the combination of opium with some of the dicine is the combination of opium with some of the stimulants just mentioned, unless where congestion appears in the head. Sometimes blisters or rubefacients may be properly applied over the internal part affected, where this is of importance to life, or oven the local abstraction of blood becomes necessary. This, however, holds more especially where the attack is inflammatory, constituting the misplaced goul, and a more antiphologistic plan must then be pursued: but evacuations cannot be borne to the same extent as in the idiorathic plagmassis.

PODAGRA'RIA. (From podagra, the gout: called because it was thought to expel the gout.)

Ægopodium podagraria. PODECIUM. (From  $\pi\epsilon_5$ , a foot.) The name given by Acharius to the peculiar foot stalk of the tubercles

by Acharus to the point the cup lichens.
PODONI PTRUM. (From πους, a foot, and νιπ σως to wash.) A bath for the feet.
PODOPHY LLUM. (From πους, a foot, and φυλλον, a foot, and φυλλον, a foot, and φυλλον to washe the polyment of the property of the polyment of the polym

["Podophyllum peltatum. Stem erect, two leaved; leaves peltate. Inhabits woods, flowers in May, is perennial. Stem one foot high; leaves lobed; flowers, solitary, white; fruit ovate.—Torrey's Com-

pendum.

"The podaphyllum peltatum is an American plant, growing in low shady situations, from New-England 194

to Georgia. The plant has only two leaves, with a flower in the fork, followed by a yellow acid fruit.

"The root is creeping and jointed, and, when dry, it is buttle and easily reduced to powder. Its taste is it is brittle and easily realized to powder. Its taste is impleasant, and, when chewed for some time, becomes intensely butter. Water and alkonol extract its bitter-ness. It contains resin, fueula, bitter extractive, and

a portion of gummy substance.
"Podophyllum is one of the most certain and efficathe cathartic vegetables, which have been cious of examined in this country. It very nearly resembles jalap in its operation, but is somewhat slower, and continues its effects for a longer time. In irritable sto-machs it sometimes occasions nausea, but not more than other medicines of its class. In small doses, it proves a gradual and easy laxative; in large ones, a powerful and long continued purge. It has been particularly recommended in dropsy, to which discuss it seems well adapted, by the large evacuations it occasions. casions.

"It is best given in powder. Ten grains taken at night, produce a free operation on the following morn-

night, produce a free operation on the following morning, and twenty grains purge with activity. If calonnel be combined with it, it operates sooner and with less griping."—*Big. Mat. Med. A.*]
PODOTHECA. (From πους, a foot, and τιθημα, to put.) A shoe or stocking. An anatomical preparation, consisting of a kind of shoe of the scarf-skin, with the nails adhering to it, taken from a dead subject. POECILIA. (Ποικέλια, from ποικίλος, versicolar.) The specific name of a species of *Epichrossis* in Good's Nosology, to designate the pye-bald skin, or that affection found among negroes, in which it is marbled generally with alternate spots, or patches of black and white. with alternate spots, or patches of black and white.

With alternate spots, or patches of black and white. Pointed loaf. See "Jeanmantus."

POISON. Venenum. That substance which, when applied externally, or taken into the human body, uniformly effects such a derangement in the animal economy as to produce disease, may be defined a poison. It is extremely difficult, however, to give a definition of a poison; and the above is subject to great inaccuracy. Poisons are divided, with respect to the kingdom to which they belong into animal vegetable. kingdom to which they belong, into animal, vegetable,

mineral, and halituous, or aerial.

Poisons, in general, are only deleterious in certain deses; for the most active, in small doses, form the most valuable medicines. There are nevertheless, certain poissons, which are really such in the smallest quantity, and which are newer administered medici-nally; as the poison of hydrophobia or the plague. There are like wise substances which are innocent when There are likewise substances which are innocent when taken into the stomach, but which prove deleterious when taken into the lungs, or when applied to an abraded surface; thus carbonic acid is continually swallowed with fermented liquors, and thus the poison of the viper may be taken with impunity; while inspiring carbonic acid kills, and the poison of the viper. inserted into the flesh, often proves fatal.

Several substances also act as poisonous when ap

plied either externally or internally; as arsenic.
When a substance produces disease, not only in mankind, but in all animals, it is distinguished by term common poison; as arsenic, sublimate, &c.; while that which is poisonous to man only, or to animals, and often to one genus merely, is said to be a relative poison; thus aloes are poisonous to dogs and wolves: the Phellandrium aquaticum kills horses, while oven devour it greedily, and with impunity. It appears, then, that substances act as poisonous only in regard to their dose, the part of the body they are applied to, and the subject.

Poisons enter the body in the following ways

Through the esophagus alone, or with the food.

2. Through the anus by clysters.

Through the nostrils.

4. Through the lungs with the air.
5. Through the absorbents of the skin, either whole, ulcerated, cut, or torn.

Poisons have been arranged in six classes:

I.—Corrosive or escharotic poisons.

They are so named because they usually irritate, inflame, and corrode the animal texture with which they come into contact. Their action is in general more violent and formidable than that of the other poisons. The following list from Orfila contains the principal bodies of this class:

1. Mercurial preparations; corrosive sublimate,

red oxide of mercury; turbeth mineral, or yellow sub-sulphate of mercury; pernitrate of mercury; mercurial vapours

2. Arsenical preparations; such as white oxide of arsenic, and its combination with the bases, called arseniates; arsenic acid, and the arseniates; yellow and red sulphuret of arsenic; black oxide of arsenic, or flypowder

3. Antimonial preparations; such astartar emetic, or cream tartrate of antimony; oxide of antimony; kermes mineral; muriate of antimony; and antimonial wine

4. Cupreous preparations; such as verdigris; acetate of copper; the cupreous sulphate, nitrate, and nuriate; aumoniacal copper; oxide of copper; cupreous soaps, or grease tainted with oxide of copper; and cupreous wines or vinegars.

5. Muriate of tin.
8. Oxide and sulphate of zinc.

- Nitrate of silver.

  Muriate of gold.

  Pearl-white, or the oxide of bismuth, and the subnitrate of this metal.
- 10. Concentrated acids; sulphuric, nitric, phosphoric, muriatic, hydriodic, acetic, &c.

  11. Corrosive alkalies, pure or subcarbonated potassa, soda, and ammonia.

  12. The caustic carths, lime and barytes.

13. Muriate and carbonate of barytes. Glass and enamel powder.

13. Crass and enamer power.

15. Cantharides.

1. Preparations of lead, such as the acetate, carbonate, wines sweetened with lead, water impregnated with its oxide, food cooked in vessels containing lead, syrups clarified with subacetate of lead, plumbean vapours.

III.—Acrid poisons.

1. The gases; chlorine, muriatic acid, sulphurous acid, nitrous gas, and nitro-muriatic vapours.

2. Jatropha manihot, the fresh root, and its juice,

from which cassava is made.

The Indian ricinus, or Molucca wood.

Scammony.

Gamboge. Seeds of Palma Christi.

Elaterium.

White hellebore root.

- 10. Black hellebore root.
- The wood and fruit of the Ahovdi of Brazil.

Rhododendron chrysanthur

- Bulbs of Colchicum, gathered in summer and autumn
  - 15. The milky juice of the Convolvulus arvensis.

16. Asclepias.17. Œnanthe fistulosa and crocata.18. Some species of clematis.

10. Some species of tematis.

19. Amenone pulsatilla.

20. Root of Wolf's-bane.

21. Fresh roots of Arum maculatum.

22. Berries and bark of Daphne mezereum.

23. The plant and emanations of the Rhus toxicodendron

24. Euphorbia officinalis. 25. Several species of Ranunculus, particularly the Aquatilis

6. Nitre, in a large dose Some muscles and othershell-fish.

IV.—Narcotic and stupifying poisons.

The gases; hydrogen, azote, and oxide of azote.

2. Poppy and opium.
3. The roots of the Solanum somniferum; berries and leaves of the Solanum nigrum; those of the Morel

with yellow fruit.

4. The roots and leaves of the Atropa mandragora.

Datura stramonium

Hyociamus, or henbane.

Lactuca virosa.

- Paris qualitylotia, or herb Paris.
   Laurocerasus, or bay laurel and prussic acid.
   Berries of the yew-tree.

11. Eroum.ervilia; the seeds.
12. The seeds of Lathyrus ciccra.
13. Distilled water of bitter almonds.

The effluvia of many of the above plants.

V .- Narcotico-acrid polsons.

Carbonic acid; the gas of charcoal stoves and fermenting liquors.

2. The manchineel

3. Faba Sancti Ignatii.
4. The exhalations and juice of the poison-tree of 4. The exhalations and place of the Macassar, or Upas-Antiar.
5. The Ticunas.
6. Certain species of Strychnos.
7. The whole plant, Lauro-cerasus.
8. Belladonna, or deadly nightshade.

Tobacco

Todacco.
 Roots of white bryony.
 Roots of the Charophyllum sylvestre.
 Conium maculatum, or spotted hemlock.

13. Æthusa cynapium. Cicuta virosa.

15. Anagallis arvensis.

16. Mercurialis perennis.

Digitalis purpurea.
The distilled waters and oils of some of the above plants.

The odorant principle of some of them.
Woorara of Guiana.

Camphor.

Cocculus indicus Several mushrooms.

24. Secale cornutum.

Lolium temulentum.

Sium latifolium Coriaria myrtifolia

VI.—Septic or putrescent poisons. Sulphuretted hydrogen.

Sulpnuretter nyarogen.
Putrid effluvia of animal bodies.
Contagious effluvia, or fomites and miasmata.
Venomous animals; the viper, rattlesnake, scor-

4. Venomous annuals; the viper, rathesname, scorpion, mad dog, &c.

Antidate for vegetable poisons. Drapiez has ascerained, by numerons experiments, that the fruit of the Feuillea cordifolia is a powerful antidate against the vegetable poisons. He poisoned dogs with the rhus toxicodendron, hemlock, and nux vomica; and all those which were left to the effects of the poison died, but those to which the above fruit was administered recovered completely, after a short illness. To see whether the antidot would act in the same way, applied externally to wounds, into which vegetable poisons had been introduced, he took two arrows, which had been dipped into the juice of the manchenule, and signtly wounded with them two cats; to one of these wounds he applied a poultice, composed of the fruit of the few illea cordifolia, while the other was left without any application. The former suffered no inconvenience, application. The former suffered no inconvenience, except from the pain of the wound, which speedily healed; while the other, in a short time, fell into convulsions, and died. This fruit losse these valuable virtues, if kept two years after it is gathered.

Dr. Chishohn states, that the juice of the sugar-cane is the best antidote for arsenic.

Dr. Lyman Spalding, of New-York, announces in a small pamphlet, that, for above these fifty years, the Scutellaria laterifora has proved to be an infallible scarcituria tateripora has proved to be an infailible means for the prevention and cure of the hydrophobia, after the bite of rabid animals. It is better applied as a dry powder than fresh. According to the testimonies of several American physicians, this plant, not yet received as a remedy into any European Materia. Medica, afforded perfect relief in above a thousand cases, as well in the human species as in the brute creation (dogs, swine, and oxen).

[From a personal acquaintance with Dr. Spalding we are enabled to state, that his pamphiet of cases of hydrophobia, said to have been cured by the scutelaria, has led both the French and English physicians into a mistake, in relation to the curative virtues of this plant. There are few physicians in the United States who place any reliance upon it. At the time of the publication of Dr. Spalding's pamphlet, there was great excitement about rabid dogs, and much newspaper discussion on the virtues of Scutellaria newspaper assets of the vittees of systematical lateriflora, as a remedy in the cure of hydrophobia. The subject being very popular, Dr. Spalding, by means of the newspapers, collected all the cases of alleged cure, and published them in a pamphlet, without vouching for their authenticity, or knowing whether they could be relied on as correct. Having led physicians into a belief that these were all well authen,

neated cases, the Doctor afterward corrected mistake, by publishing a proper explanation. The writer hereof was invited by the attending physician, to see a patient in the last stage of hydrophobia, who had taken the scutellaria in great quantity, from the time he was bitten until the fatal symptoms occur-

Method of detecting poisons.

When sudden death is suspected to have been occasioned by the administration of poison, either wil-fully or by accident, the testimony of the physician is occasionally required to confirm or invalidate this suspicion. He may also be sometimes called upon to ascertain the cause of the noxious effects arising from the presence of poisonous substances in articles of diet; and it may, therefore, serve an important purpose to point out concisely the simplest and most practicable modes of obtaining, by experiment, the necessary information.

The only poisons, however, that can be clearly and decisively detected, by chemical means, are those of the mineral kingdom. Arsenic and corrosive sublimate are most likely to be exhibited with the view of producing death; and lead and copper may be intro-duced undesignedly, in several ways, into our food The continued and unsuspected operation of the last two may often produce effects less sudden and violent, but not less baneful to health and life than the more active poisons; and their operation generally involves, in the pernicious consequences, a greater number of sufferers.

Method of discovering arsenic.—When the cause of sudden death is believed, from the symptoms preceding it, to be the administration of arsenic, the contents of the stomach must be attentively examined. To effect this, let a ligature be made at each orifice, the stomach removed entirely from the body, and its whole contents washed out into an earthen or glass vessel. The arsenic, on account of its greater specific gravity, will settle to the bottom, and may be obtained separate, after washing off the other substances by repeated effusions of cold water. These washings should not be thrown away, till the presence of arsenic has been clearly ascertained. It may be expected at the bottom of the vessel in the form of a white powder, which must be carefully collected, dried on a filter, and submitted to experiment.

A. Boil a small portion of the powder with a few ounces of distilled water, in a clean Florence flask,

and filter the solution.

B. To this solution add a portion of water, saturated with sulphuretted hydrogen gas. If arsenic be present, a golden yellow sediment will fall down, which will appear sooner, if a few drops of acetic acid be added. C. A similar effect is produced by the addition of sulphuret of ammonia, or hydrosulphuret of potassa.

It is necessary, however, to observe, that these tests are decomposed not only by all metallic solutions, but by the mere addition of any acid. But among these precipitates, Dr. Bostock assures us, the greatest part are so obviously different as not to afford a probability of being mistaken; the only two which bear a cluse resemblance to it, are the precipitate from tartarized antimony, and that separated by an acid. In the latter, however, the sulphur preserves its poculiar yellow cobur, while the arsenic presents a deep shade of orange: but, while the ansente presents a deep shade of orange; but no obvious circumstance of discrimination can be pointed out between the hydrosulphurets of arsenic and of antimony. Hence Dr. Bostock concludes, that culphuretted hydrogen and its compounds merit our confidence only as collateral tests. They discover arsenic with great delicacy: sixty grains of water, to which one-grain only of liquid sulphuret (hydroguret-ted authuret 3) had been added, was almost instantly ted sulphuret ?) had been added, was almost instantly

ted sulphuret 3) had been added, was almost instantly nendered completely opaque by one-eightieth of a grain of the white oxide of arsenic in solution.

D. To a little of the solution A, add a single drop of a weak solution of subcarbonate of potassa, and afterward a few drops of a solution of sulphate of copper. The presence of arsenic will be manifested by a yell-lowish-green precipitate. Or boil a pertion of the suspected powder with a dilute solution of pure potassa, and with this precipitate the sulphate of conner, when and with this precipitate the sulphate of copper, when as similar appearance will ensue still more remarkably, if arsenic be present. The colour of this precipitate is perfectly characteristic. It is that of the pigment called Scheele's green. To identify the amenic with

still greater certainty, it may be proper, at the time of making the experiments on a suspected substance, to perform similar ones, as a standard of comparison, on Let the colour, what is actually known to be arsenic. what is actually know it to be arsenic. Let the colour, therefore, produced by adding an alkaline solution of the substance under examination, to a solution of sul-phate of copper, be compared with that obtained by a similar admixture of a solution of copper with one of real arsenic in alkali.

The proportions in which the different ingredients are employed, Dr. Bostock has found to have considerable influence on the distinct exhibition of the effect. Those which he has observed to answer best, were one of arsenic, three of potassa, (probably the subcarbonate of, or common salt of tartary), and five of sulphate of occommon salt of tartary), and five of sulphate of copper. For instance, a solution of one grain of arsenic, and three grains of potassa, in two drawlines of water, being mingled with another solution of live grains of sulphate of copper in the same quantity of water the whole water constants. water, the whole was converted into a beautiful grass water, the whole was converted into a beautiful grass green, from which a copious precipitate of the same line slowly subsided, leaving the supernatant liquor transparent and nearly colourless. The same materials, except with the omission of the arsenic, being employed in the same manner, a delicate sky-blue resulted, or different fearth former as materials. suited, so different from the former as not to admit of the possibility of mistake. In this way, one-forticth of a grain of arsenic, diffused through sixty grains of wa ter, afforded, by the addition of sulphate of copper and potassa in proper proportions, a distinct precipitate of Scheele's green. In employing this test, it is necessary to view the fluid by reflected and not by transparent light, and to make the examination by daylight. To render the effect more apparent, a sheet of white paper may be placed behind the glass in which the mixed fluids are contained; or the precipitation may be effected by mixing the fluids on a piece of writing-

paper.

E. The sediments, produced by any of the foregoing experiments, may be collected, dried, and laid on redhot charcoat. A smell of sulphur will first arise, and will be followed by that of garlie.

A process for detecting arsenic has been proposed by Hume, of London, in the Philosophical Magazine, for May, 1809, vol. xxxiii. The test which he has suggested, is the fused nitrate of silver, or lunar caustic,

which he employs in the following manner—two or three grains of any powder suspected to be arsenic; add not less than eight ounce-measures of either rain or distilled water; and heat this gradually over a lamp, or a clear coal fire, till the solution begins to boil. Then, while it boils, frequently shake the flask, which may be readily done by wrapping a piece of leather round its neck, or putting a glove upon the hand. To the hot solution, add a grain or two of subcarbonate of potassa or soda; agitating the whole to make the mixture uniform.

In the next place, pour into an ounce-phial, small wine-glass, about two table spoonfuls of this solution, and present to the mere surface of the fluid a stick of dry nurate of silver or lunar caustic. If there he any arsenic present, a beautiful yellow precipitate will instantly appear, which will proceed from the point of contact of the nitrate with the fluid; and setthe towards the bottom of the vessel as a flocculent and

copious precipitate.

The nitrate of silver, Hume finds, also, acts very sensibly upon arsenate of potassa, and decidedly distinguishes this salt from the above solution or arsenate of potassa: the colour of the precipitate, occasioned by the *orsenate*, being much darker and more inclined to brick-red. In both cases, he is of opinion, that the test of nitrate of silver is greatly superior to that of sulphate of copper; inasmuch as it produces a much more copious precipitate, when equal quantities are sub-mitted to experiment. The tests he recommends to be employed in their dry state, in preference to that of solution; and that the piece of salt he held on the surface only

A modified application of this test has since been proposed by Dr. Marcet, whose directions are as follow:-Let the fluid, suspected to contain arsenic, be low .-Let the mind, suspected to comain asseme, be filtered; let the end of a glass rod, wetted with a solu-tion of pure ammonia, be brought into contact with this fluid, and let the end of a clean rod, similarly wested with solution of nitrate of silver, be immersed.

in the mixture. If the minutest quantity of arsenic | of potassa, of which the solution affords a brick-red be present, a precipitate of a bright-vellow colour, inchining to orange, will appear at the point of contact, and will readily subside at the bottom of the vessel. As this precipitate is soluble in ammonia, the greatest care is necessary not to add an excess of that alkali. The acid of arsenic, with the same test, affords a brickred precipitate.—Hume, it may be added, now prepares his test by dissolving a few grains, say ten, of lunar caustic in nine or ten times its weight of distilled water; precipitating by liquid ammonia: and adding cautiousby, and by a few drops at once, liquid ampoonia, till the precipitate is redissolved, and no longer. To obviate the possibility of any excess of ammonia, a small quantity of the precipitate may be left undissolved. To apply this test, nothing more is required than to dip a rod of was into this liquor, and then touch with it the surface of a solution supposed to contain arsenic, which

surfaceof a solution supposed to contain arsenic, which will be indicated by a yellow precipitate.

Sylvester has objected to this test, that it will not produce the expected appearance, when common salt is present. He has, therefore, proposed the red acctate of iron as a better test of arsenic, with which it forms a bright-yellow deposite; or the acetate of copper, which affords a green precipitate. Of the two, he recom-mends the latter in preference, but advises that both should be resorted to in doubtful cases. Dr. Marcet, however, has replied, that the objection arising from the presence of common salt is easily obviated; for it a little diluted nitric acid be added to the suspected liquid, and then nitrate of silver very cautiously till the precipitate ceases, the muriate acid will be removed, but the arsenic will remain in solution, and the addition of ammonia will produce the yellow precipitate in its characteristic form. It is scarcely necessary to add, that the quantity of ammonia must be sufficient to saturate any excess of nitric acid, which the fluid may

A more important objection to nitrate of silver as a test of arsenic is, that it affords, win the alkaline phosphates, a precipitate of phosphate of silver, scarcely distinguishable by its colour from the arseniate of that metal. In answer to this, it is alleged by Hume, that the arsenite of silver may be discriminated by a curdy or flocculent figure, resembling that of fresh precipitated muriate of silver, except that its colour is yellow while the phosphate is smooth and homogeneous. The better to discriminate these two arsentes, he advises two parallel experiments to be made, upon separate pieces of clean writing-paper, spreading on the one a ittle of the fresh prepared arsenite, and on the other a little of the phosphate. When these are suffered to dry, the phosphate will gradually assume a black colour, or nearly so, while the arsenite will pass from its original vivid yellow to an Indian yellow, or nearly

Dr. Paris conducts the trial in the following manner: Drop the suspected fluid on a piece of white paper, making with it a broad line; along this line a stick of lunar caustic is to be slowly drawn several times successively, when a streak will appear of the colour re-sembling that known by the name of Indian yellow. This is equally produced by arsenic and by an alkaline This is equally produced by arsenic and by an alkamie phosphate, but the one from arsenic is rough, curdy, and floculent, like that from a crayon; that from a phosphate is homogeneous and uniform, resembling a water colour laid smoothly on with a brush. But a more important and distinctive peculiarity soon succeeds: for in less than two minutes the phosphoric yellow fades into a sad green, and becomes gradually darker, and ultimately quite black, while on the other hand the arsenic yellow continues permanent, or nearly so, for some time, and then becomes brown so, for some time, and then becomes provid. In per-forming this experiment, the sunshine should be avoided, or the change of colour will take place to rapidly. (Ann. of Phil. x. 60.) The author of the London Dispensatory adds, that the test is improved by brushing the streak lightly over with liquid ammo-nia immediately after the application of the caustic, when, if arsenic be present, a bright queen's yellow is produced, which remains permanent for nearly an hour; but that when lunar caustic produces a white yellow before the ammonia is applied, we may infer the presence of some alkaline phosphate rather than

G. Smithson proposes to fuse any powder suspected to contain arsenic with nitre; this produces arseniate

precipitate with nitrate of silver. In cases where any sensible portion of the alkali of the nitre has been set free, it must be saturated with acetous acid, and the saline mixture dried and redissolved in water. So saline mixture dried and redissolved in water. So small is the quantity of arsenic required for this mode of trial, that a drop of solution of oxide of arsenic in water (which, at 54° of Fahr. may be estimated to contain one-eightieth its weight of the oxide), mixed with a little nitrate of potassa, and fused in a platinum spoon, affords a very sensible quantity of arseniate of silver. (Ann. of Phil. N. S. iv. 127.)

H. Dr. Cooper, President of Columbia College, finds a solution of chromate of marses to be one of the best

a solution of chromate of potassa to be one of the best tests of arsenic. One drop is turned green by the fourth of a grain of arsenic, by two or three drops of Fowler's mineral solution, or any other arsenite of potassa. The arsenious acid takes oxygen from the chromic, which is converted into oxide of chrome. To exhibit the effect, take five watch-glasses; put on one, two or three drops of a watery solution of white arsenic; on the second, as much arsenite of polassy on the third, one fourth of a grain of white arsenic in substance; on the fourth, two or three drops of a solution of corresive sublimate; on the fifth, two or three drops of a solution of copper. Add to each three or four drops of a solution of chromate of potassa. In half an arops of a soutton of chromate of potassa. In half an hour, a bright, clear, grass-green colour will appear in numbers 1, 2, 3, unchangeable by ammonia; number 4 will instantly exhibit an orange precipitate; and number 5 a green, which a drop of ammonia will instantly change to blue. (Stillman's American Journal, iii.)

I. But the most decisive mode of determining the

presence of arsenic (which, though not absolutely in-dispensable, should always be resorted to, when the suspected substance can be obtained in sufficient quantity) is by reducing it to a metallic state; for its characters are then clear and unequivocal. For this purpose, let a portion of the white sediment, collected from the contents of the stomach, be dried and mixed with three times its weight of black flux; or if this cannot be pro-cured, with two parts of very dry carbonate of potassa (the salt of tartar of the shops), and one of powdered charcoal. Dr. Bostock finds, that for this mixture we may advantageously substitute one composed of half a may advantageously substitute one composed of half a grain of charceal, and two drops of oil, to a grain of the sediment. Procure a tube eight or nine inches long, and one-fourth or one-sixth of an inch in diameter, of thin glass, sealed hermetically at one end. Then put into the tube the mixture of the powder and its flux, and if any should adhere to the inner surface, let it be wiped off by a feather, so that the inside of all the upper part of the tube may be quite clean and dry. Ston the end of the tube loosely with a little names and Stop the end of the tube loosely, with a little paper, and heat the sealed end only, on a chafing-dish of red-hot coals, taking care to avoid breathing the fumes. The coats, taking care to avoid oreating the tunes. At a arsenic, if present, will rise to the upper part of the tube, on the arger surface of which it will form a thin brilliant coateng. Break the tube, and scrape off the reduced metal. Lay a little on a heated iron, when, if reduced metal. Lay a fittee on a nearest ron, when, it is a rasenic, a dense smoke will arise, and a strong smell of garlic will be perceived. The arsenic may be further identified, by putting a small quantity between two polished plates of copper, surrounding it by powdered charcoal, to prevent its escape, binding these tightly together by iron wire, and exposing them to a low red heat. If the included substances be arsenic, a white stain will be left on the copper.

White stain will be left on the copper.

K. It may be proper to observe, that neither the stall on copper, nor the odour of garlic, is produced by the white oxide of arsenic, when heated without the addition of some inflammable ingredient. The absence of arsenic must not, therefore, be inferred, if no smell should be occasioned by laying the white powder on a

heated iron.

Dr. Black ascertained that all the necessary experi-Let the detection of arsenic, may be made on a single grain of the white oxide; this small quantity having produced, when heated in a tube with its proper flux, as much of the metal as clearly established its presence.

If the quantity of arsenic in the stomach should be so small, which is not very probable, as to occasion death, and yet to remain suspended in the washings, the whole contents, and the water employed to wash them must be filtered, and the clear liquor assayed for are nic by the tests B, C, D, and E.

POI POI

In this case, it is necessary to be careful that the colour of the precipitate is not modified by that of the liquid found in the stomach. If this be yellow, the precipitate by sulphate of copper and carbonate of poprecipitate by sulphate of copper and carbonate of po-tassa will appear green, even though no arsenic be present; but on leaving it to settle, decanting off the fluid, and replacing it with water, it will evidently be blue without any tinge of green, being no longer seen through a yellow medium—(Dr. Paris.) The liquid contents of the stomach may also be evaporated to dryness below 250° Fairr, and the dry mass be exposed to heat at the bottom of a Florence flask, to sublime the arsenic. If dissolved in an oily fluid Dr. Uter proposes to boil the solution with dis-

fluid, Dr. Ure proposes to boil the solution with distilled water, and afterward to separate the oil by the capillary action of wick threads. The watery fluid

may then be subjected to the usual tests

In an investigation, the event of which is to affect the life of an accused person, it is the duty of every one who may prepare himself to give evidence, not to rest satisfied with the appearances produced by any one test of arsenic; but to render its presence quite unequivocal by the concurring results of several.

Discovery of corrosive sublimate, baryta, &c.—
Corrosive sublimate (the bichloride or oxymuriate of mercury,) next to arsenic, is the most virulent of the metallic poisons. It may be collected by treating the contents of the stomach in the manner already described; but as it is more soluble than arsenic, viz. in about nineteen times its weight of water, no more water must be employed than is barely sufficient, and the washings must be carefully preserved for examina-

If a powder should be collected by this operation, which proves, on examination, not to be arsenic, it may be known to be corrosive sublimate by the follow-

ing characters:
A. Expose a small quantity of it, without any ad-A. Expose a small quantity of it, without any admixture, to heat in a coated glass tube, as directed in the treatment of arsenic. Corrosive sublimate will be ascertained by its rising to the top of the tube, lining the inner surface in the form of a shining white crust.

B. Dissolve another portion in distilled water; and it may be proper to observe how much of the sait the water is capable of taking up.

C. To the watery solution add a little lime-water. A precipitate of an orange yellow colour will instantly appear.

appear.

D. To another portion of the solution add a single drop of a dilute solution of sub-carbonate of potassa (sait of tartar). A white precipitate will appear; but, on a still further addition of alkali, an orange-coloured sediment will be formed.

E. The carbonate of soda has similar effects.

Sulphuretted water throws down a dark-colour-

et. Sulpnuetted water throws down a dark-colour-ed sediment, which, when dried and strongly heated, is wholly volatilized, without any odour of garlic. For the detection of corrosive sublines, Sylvester has recommended the application of galvanism, which exhibits the mercury in a metallic state. A piece of zinc wire, or if that cannot be had, of iron wire about three inches long, is to be twice bent at right angles, so as to resemble the Greek letter II. The two legs of this figure should be distant about the diameter of a common gold wedding-ring from each other, and the two ends of the bent wire must afterward be tied to a ring of this description. Let a plate of glass, not less than three inches square, be laid as nearly horizontal as possible, and on one side drop some sulphuric acid, diluted with about six times its weight of water, till it spreads the size of a halfpenny. At a little distance from this, wards the other side, next drop some of the solution supposed to contain corrosive sublimate. till the edges of the two liquids join together; and let the wire and ring prepared as above be laid in such a way that the wire may touch the acid, while the gold way that the wire may touch the acid, while the gold ring is in contact with the suspected liquid. If the minutest quantity of corrosive sublimate be present, the ring in a few minutes will be covered with mercury on the part which touched the fluid. Smithson remarks, that all the oxides and saline compounds of mercury, if laid in a drop of marine acid on gold, with a bit of tin, quickly amalgamate the gold. In this way, a very minute quantity of corresponding to the content of the

gold. In this way, a very minute quantity of corrosive sublimate, or a drop of its solution may be tried, and no addition of muriatic acid is then required. Quantities of mercury may thus be rendered evident,

which could not be so by any other means. Even the mercury of cinnabar may be exhibited; but it must previously be boiled with a little sulphuric acid in a platinum spoon, to convert it into sulphate. paradim sporm, to consider a space of the considering minute quantity of metallic mercury in any powder may be discovered by placing it in intra-acid on gold, drying, and adding muniatic acid and tim.

The only mineral poison of great virulence that has not been mentioned, and which, from its being little known to act as such, it is very improbable we should meet with, is the carbonate of baryta. This, in the country where it is found, is employed as a poison for country where it is found, is employed as a poison for rats, and there can be no doubt would be equally de-structive to bunean life. It may be discovered by dis-solving it in muriatic acid, and by the insolubility of the precipitate which this solution yields on adding sul-phuric acid, or sulphate of soda. Soluble bary it salts, if these have been the means of poison, will be con-tained in the water employed to wash the contents of the stemach, and will be detected, on adding sulphuric the stomach, and will be detected, on adding sulphuric acid, by a copious precipitate.

It may be proper to observe, that the failure of attempts to discover poisonous substances in the alimentary canal after death, is by no means a sufficient proof that death has not been occasioned by poison. has been clearly established, by experiments made on animals, that a poison may be so completely evacuated, that no traces of it shall be found, and yet that death may ensue from the morbid changes which it has occasioned in the alimentary canal, or in the general

system.

Method of detecting copper or lead.—Copper and lead sometimes gain admission into articles of food, in consequence of the employment of kitchen utensils of these materials.

J. If copper be suspected in any liquor, its presence will be ascertained by adding a solution of pure am-monia, which will strike a beautiful blue colour. If monia, which will strike a beautiful blue colour. If the solution be very dilute, it may be concentrated by evaporation; and if the liquor contain a considerable excess of acid, like that used to preserve pickles, as much of the alkali must be added as is more than suf-ficient to saturate the acid. In this, and all other ex-periments of the same kind, the fluid should be viewed by reflected, and not by transmitted light.

by reflected, and not by transmitted light.

If into a newly prepared tincture of guaiacum wood we drop a concentrated solution of a salt of copper, the mixture instantly assumes a blue colour. This effect does not take place when the solution is very weak, for example, when there is not above half a weak, for example, when there is not above half a grain of the sait to an ounce of water; but then, by the addition of a few drops of prussic acid, the blue colour is instantly developed of great purity and intensity. This colour is not permanent, but soon passes to a green, and at length totally disappears. For want of prussic acid, distilled laurel-water may be employed. The test produces its effect, even when the proportion of the sait of copper to the water does not exceed 1-45000th. In this minute proportion no other test, whether the prussiate of polassa, soda, or ammonia, gives the least indication of copper.-(Quart. Journ. x. 182.

2. Lead is occasionally found, in sufficient quantity to be injurious to health, in water, that has passed through leaden pipes, or been kept in leaden vessels, and sometimes even in pump-water, in consequence of that metal having been used in the construction of the pump. Acetate of lead has also been known to be fraudulently added to bad wines, with the view of con-

cealing their defects.

Lead may be discovered by adding to a portion of the suspected water, about half its bulk of water im-pregnated with sulphuretted hydrogen gas. If lead be present, it will be manifested by a dark brown, or blackish, tinge. This test is so delicate, that water, condensed by the leaden worm of a still-tub, is sensi-bly affected by it. Lead is also detected by a similar effect ensuing on the addition of sulphuret of ammonia, or potassa.

The adequacy of this method, however, to the dis-The adequacy of this method, however, to the dis-covery of very minute quantities of lead, has been set aside by the experiments of Dr. Lambe, the author of a skilful analysis of the springs of Learnington Priors, near Warwick. By new methods of examination, he has detected the possence of lead in several spring-waters, that manifest no change on the addition of the subshirted jest; and has found that the second sulphuretted test; and has found that metal in the precipitate, separated from such waters by the carbonate of potassa or of soda. In operating on these waters, Dr Lambe noticed the following appearances:

a. The test forms sometimes a dark cloud, with the precipitate affected by alkalies, which has been redis-

solved in nitric acid.

b. Though it forms, in other cases, no cloud, the pre-cipitate itself becomes darkened by the sulphuretted test. c. The test forms a white cloud, treated with the precipitate as in a. These two appearances may be

d. The test neither forms a cloud, nor darkens the precipitate.

c. In the cases b, c, d, heat the precipitate, in contact with an alkaline carbonate, to redness; dissolve out the carbonate by water; and treat the precipitate as in a. The sulphuretted test then forms a dark cloud with the solution of the precipitate. In these experiments, it is essential that the acid, used to redissolve the precipitate, shall not be in excess; and if it should

the precipitate, shall not be in excess; and it it should so happen, that excess must be saturated before the test is applied. It is better to use so little acid, that some of the precipitate may remain undissolved.

f. Instead of the process c, the precipitate may be exposed, without addition, to a red heat, and then treated as in a. In this case, the test will detect the metallic matter; but with less certainty than the fore-

The nitric acid, used in these experiments, should be perfectly pure; and the test should be recently pre-pared by saturating water with sulphuretted hydrogen gas. A few drops of nitric acid added to a water con-taining lead, which has been reduced to 1-8th or 1-10th its bulk by evaporation, and then followed by the addi-tion of a few drops of hydriodate of potassa, produces

a yellow insoluble precipitate.

Another mode of abalysis, employed by Dr. Lambe, consists in precipitating the lead by solution of common salt; but as muriate of lead is partly soluble in mon salt; but as muriate of lead is partly soluble in water, this test cannot be applied to small portions of suspected water. The precipitate must be, therefore, collected, from two or three gallons, and heated to redness with twice its weight of carbonate of soda. Dissolve out the soda; add nitric acid, saturating any superfluity; and then apply the sulpharetted test. Sulphate of soda would be found more effectual in this Suppare of soda wound be found more effectual in this process than the muriate, on account of the greater insolubility of sulphate of lead. This property, indeed, renders sulphate of soda an excellent test of the presence of lead, when held in solution by acids, for it throws down that magal, even when present in very small quantity, in the form of a heavy white precipitate with the first subject is not subject to solution.

tate, which is not soluble by acetic acid.

The third process, which is the most satisfactory of all, and is very easy, except for the trouble of collecting a large quantity of precipitate, is the actual reduction of the metal, and its exhibition in a separate form. tion of the metal, and its exhibition in asseparate form. The precipitate may be mixed with its own weight of alkaline carbonate, and exposed either with or without the addition of a small proportion of charcoal, to a heat sufficient to melt the alkali. On breaking the crucible, a small globule of lead will be found reduced at the bottom. The precipitate from about fifty gallons of water yielded Dr. Lambe, in one instance, about

For discovering the presence of lead in wine, a test invented by Dr. Halmemann, and known by the title of Hahnemann's wine test, may be employed. This test Hahnemann's wine test, may be employed. This test is prepared by putting together, into a small phial, sixteen grains of sulphuret of lime, prepared in the dry way (by exposing to a red heat, in a covered crucible, equal weights of powdered lime and sulphur, accurately mixed), and twenty grains of bitartrate of potassa (cream of tartar). The phial is to be filled with water, and the sulphur has been described by the for the same of th well corked, and occasionally shaken for the space of ten minutes. When the powder has subsided, decant the clear liquor, and preserve it, in a well-stopped bot-tle, for use. The liquor, when fresh prepared, dis-covers lead by a dark coloured precipitate. A further proof of the presence of lead in wines is the occurrence of a precipitate on adding a solution of the sulphate of

Sylvester has proposed the gallic acid as an excellent

test of the presence of lead

The quantity of lead, which has been detected in so-phisticated wine, may be estimated at forty grains of the metal in every fifty gallons.

When a considerable quantity of acetate of lead has been taken into the stomach (as sometimes, owing to its sweet taste, happens to children), after the exhibi-tion of an active emetic, the hydro-sulphuret of potassa

uon of an active emetic, the hydro-sulphuret of potassa or of armonia may be given; or probably a solution of sulphate of soda (Glauber's Salt) would render it innoxious."—Henry's Chem.

Poison-ook. See Rhus toxicodendron.

POLEMO'NIUM. (An ancient name derived from moλεμος, war: because, according to Pliny, kings had contended for the honour of its discovery.) I. The

contended for the fonour of its discovery.) 1. The name of a genus of plants in the Linnacan system. Class, Pentandria; Order, Monogynia.

2. Wild sage, or Teucrium scovodonia of Linnacus. Polemonium Carlleum. The systematic name of the Greek valerian, or Jacob's ladder, Porto of which is esteemed by some as a good astringent against diareteric and the section.

rhæas and dysentery.
POLEY-MOUNTAIN. See Teucrium

POLIOSIS (From molog, candidus, white or hoary.)
The specific name of a species of Trichosis in Good's arrangement, in which the hairs are prematurely gray

arangement, in which the hairs are prematurely gray or hoary.

PO'LIUM. (From \$\pi\oldot{\tau}\tau\_{\tau\_0}\t

In the Helianthus annuas, the pollen is In Geraniums, perforate. The pollen of Symphatum is didymous. That of the Mullow, deutate. It is angulate in Violu adorata. Reneforme in Narcissus; and

Renjorme in Narcissus; and In Borago, convolute. POLLENIN. The pollen of tulips has been ascertained by Professor Johu to contain a peculiar substance, insoluble in alkahol, ather, water, oil of turpentine, naphtha, carbonated and pure alkalies; extremely combustible, burning with great rapidity and flame; and hence used at the theatres to imitate light-

POLYADELPHIA. (From πολυς, many, and αδιλdua, a brotherhood.) The name of a class of plants in φια, a brotherhood.) The name of a class of plants in the sexual system of Linnarus, embracing plants with hermaphrodite flowers, in which several stamina are united by their filaments into three or more distinct bundles.

bundles.

POLYA'NDRIA. (From πολυς, many, and ανας, a husband.) The name of a class of plants in the sexual system of Linnaeus. It consists of plants with hermaphrodite flowers, furnished with several stamina, that are inserted into the common receptacle of the flower; by which circumstance this class is distinguished from the common temperature of the common flowers. Icosandria, in which the striking character is the situa-

tion of the stamina on the early or petals.

POLYCHRE'STUS. (From wolve, much, and zongos, useful.) Having many virtues, or uses. Applied to many medicines from their extensive useful-

ness.

POLYCHROITE. The colouring matter of saffron.
POLYDIPSIA. (From ωλυς, much, and διψη, thirst.) Excessive thirst. A genus of disease in the Class Locales, and Order Dysoraeir, of Cullen. It is mostly symptomatic of fever, dropsy, excessive discharges, or poissons.
POLY GALA. (From ωλυς, much, and γαλα, milk: so named from the abundance of its milky juice.) 1. The name of a genus of plants in the Linnean system. Class, Diadelphia; Order, Octandria.
2. The pharmacopæial name of the common milk wort. See Polygala valgaris.
Polygala Mara. This is a remarkably bitter plant 199

and, though not used in this country, promises to be as i efficacious as those in greater repute. It has been given freely in phthisis pulmonalis, and, like other remedies. failed in producing a cure; yet, as a palliative, it claims attention. Its virtues are balsamic, demulcent, and corroborant.

COTIONIAIN.

POLYGALA SENEGA. The systematic name of the rattlesnake milk-wort. Seneka. Polygala—floribus symperbibus spicatis, caule erecto herbacee simplicissimo, foliis ovato lanceolatis, of Linnaus. The root of this plant was formerly much esteemed as a specific against the poison of the rattlesnake, and as an antiagainst the poison of the rattlesnake, and as an anti-phologistic in pleurisy, pnetunonia, &c.; but it is now very much laid aside. Its dose is from ten to twenty grains; but when employed, it is generally used in the form of decoction, which, when prepared according to the formula of the Edinburgh Pharmacopoia, may be given every second or third hour.

POLYGALA VULGARIS. The systematic name of the common milk-wort. The root of this plant is somewhat similar in taste to that of the seneka, but much weaker. The leaves are very bitter, and a handful of them, infused in wine, is said to be a safe and gentle

POLYGA'MIA. (From πολυς, many, and γαμος, a marriage.) Polygamy. The name of a class of plants in the sexual system of Linnæus, consisting of polygamous plants, or plants having hermaphrodite flowers, and likewise male and female flowers, or both, The orders of this division are according to the beautiful uniformity or plan which runs through this inge-nious system, distinguished upon the principles of the Classes Monacia, Diacia, and Triacia. It has the five following orders:

1. Polygamia aqualis. The name of an order of Class Syngenesia, of the sexual system of plants. The florets are all perfect or united, that is, each furnished

Class Spingenesia, of the sexual system of plants. The florets are all perfect or united, that is, each furnished with perfect stamens.

2. Polygamia Prustranea. Florets of the disk, with stamens and pistil: those of the radius with merely an abortive pistil, or with not even the rudiments of any.

3. Polygamia necessaria. Florets of the disk with stamens only, those of the radius with pistils only.

4. Polygamia segregata. Several flowers, either simple or compound, but with united anthers, and with a proper calyx, included in one common calyx.

5. Polygamia superflua. Florets of the disk, with stamens and pistil: those of the radius with pistils only, but each, of both kinds, forming perfect seed.

FOLYGONA TUM. (From zoovs, many, and yovv, a joint: so named from its numerous joints or knots.) Solomon's seal. See Connallaria polygonatum.

POLYGONUM. (From zoovs, many, and yovv, a joint: so named from its numerous jointe.) The name of a genus of plants in the Limasan system. Class, Octandria; Order, Triggnia. Knot-grass.

Polygonam mas; Sanguinaria. This plant is never new this country; it is said to be useful in stopping hemorrhages, diarrheas, &c.; but little credit is to be given to this account.

Pelygonum Maccifereum. A species of equisetum, or horse-tail.

POLYGONUM BACCIFERUM. A species of equisetum,

or horse-tail

Of horse-tail.

POLYGONUM BISTORTA. The systematic name of the officinal bistort. Bistorta. Polygonum—caule simplicissimo monostachio, folisis ovatis in petiolum decurrentibus, of Linneus. This plant is a native of Britain. Every part manifests a degree of stypticity to the taste, and the root is esteemed to be one of the most rowerful of the weather articles. powerful of the vegetable astringents, and frequently made use of as such in disorders proceeding from a laxity and debility of the solids, for restraining alvine fluxes, after due evacuations, and other preternatural discharges, both serous and sanguineous. It has been sometimes given in intermitting fevers; and sometimes sometimes given in meriminal records and antiseptic, in acute malignant and colliquative fevers; in which intentions Peruvian bark has now deservedly superseded both these and all other adstringents. The common both these and all other adstringents. The common dose of bistort root in substance, is fifteen or twenty grains: in urgent cases it is extended to a drachm. Its astringent matter is totally dissolved both by water and rectified spirits.

POLYGONUM DIVARICATUM. The systematic name of the eastern buckwheat plant. The roots, reduced to a coarse meal, are the ordinary food of the Siberians. | either one or both nostrils. At other times, it arises

POLYGONUM FAGOPYRUM. The systematic name of the buckwheat. The grain of this plant constitutes the principal food of the inhabitants of Russis, Germany, and Switzerland.

POLYGONUM HYDROPIPER. The systematic name of rotyconus hydrogenes. The systematic name of the poor man's pepper. Hydrogenes. Biting arase-snart; Lake-weed; Water-pepper. This plant is very common in our ditches; the leaves have an acrid, burning taste, and seem to be nearly of the same nature with those of the arum. They have been recommended as proposed a principal, angional, diagratic, applicable. possessing antiseptic, aperient, diuretic virtues, and given in scurvies and cachexies, asthmas, hypochondrical and nephritic complaints, and wandering gout. The first leaves have been applied externally, as a stimulating cataplasm.

POLYGONUM LATIFOLIUM. Common knot-grass. See

Polygonum aviculare.
Polygonum aviculare.
Polygonum Mas. See Polygonum aviculare.
Polygonum Minus. Rupture-wort. See H

ria glabra.
Polygonum persicaria. The systematic name of the Persicuria of the old pharmacopusias. Persicuria mitis; Plumbago. Arse-smart. This plant is said to possess vulnerary and antiseptic properties; with which intentions it is given in wine to restrain the progress of gangrene.

POLYPO DIUM. (From wolvs, many, and novs, a foot: so called because it has many roots.) The name of a genus of plants in the Linnman system. Class, Cryptogamia; Order, Filices. Fern, or poly-

POLYPODIUM ACULEATUM. Filix aculeata. Spoar-pointed fern. Fallen into disuse.
POLYPODIUM FILIX MAS. Aspidium filix mas, of Dr. Smith; Pteris; Blancnon; Orbasic; Lonchitis. Male polypody, or fern. The root of this plant has been greatly celebrated for its effects upon the tania osculis superficialibus, or broad tape-worm. Madame oscuts superfictions.

Nonfer acquired great celebrity by employing it as a specific. This secret was thought of such importance by some of the principal physicians at Paris, who were deputed to make a complete trial of its efficacy, that it was purchased by the French king, and afterward published by his order. The method of cure is the following:—After the patient has been prepared by an emollient glyster, and a supper of panada, with butter and salt, he is directed to take in the morning, while in bed, a dose of two or three drachms of the powder-ed root of the male fern. The powder must be washed down with a draught of water, and, two hours after, a strong cathartic, composed of calomel and scammony, strong cathartic, composed of calomel and scammony, is to be given, proportioned to the strength of the patient. If this does not operate in due time, it is to be followed by a dose of purging saits, and if the worm be not expelled in a few hours, this process is to be repeated at proper intervals. Of the success of this, or a similar mode of treatment, in cases of tania, there can be no doubt, as many proofs in this country afford sufficient testimony; but whether the fern-root or the strong cathartic is the principal agent in the destruction of the worm, may admit of a question; and the latter opinion, Dr. Woodville believes, is the more generally adopted by physicians. It appears, however, generally adopted by physicians. It appears, however, from some experiments made in Germany, that the tenia has, in several instances, been expelled by the repeated exhibition of the root, without the assistance any purgative.

POLYPODIUM BAROMETZ. See Agnus tartari-

PO'LYPUS. (From wolves, many, and woves, a foot: from its sending off many ramifications, like legs.) 1.

from its sending off many rannications, the regs.)

The name of a genus of zoophytes.

2. A species of surcoma in Cullen's Nosology. A polypus is a tumour, which is generally narrow where it originates, and then becomes wider, somewhat like a pear. It is most commonly met with in the nose, uterus, or vagina; and has received its name from an exposure, idea, that it is usually had a second roots. erroneous idea, that it usually had several roots, or feet, like zoophyte polypi.
Polypi vary from each other according to the differ-

ent causes that produce them, and the alterations that happen in them. Sometimes a polypus of the nose is owing to a swelling of the pituitary membrane, which swelling may possess a greater or less space of the membrane, as also its cellular substance, and may affect

from an ulcer produced by a caries of some of the bones which form the internal surface of the nostrils. Polypuses are sometimes so soft, that upon the least touch they are lacerated, and bleed; at other times they are very compact, and even scirrhous. Some continue small a great while; others increase so fast as, in a short time, to push out at the nostrils, or extend backwards towards the throat. Le Dran mentions, that he has known them fill up the space behind the truth and training towards the smooth terms. the uvula, and, turning towards the mouth, have protruded the fleshy arch of the palate so far forwards as to make it parallel with the third dentes molares. There are others which, though at first free from any malignant disposition, become afterward carcinomatous, and even highly cancerous. Of whatever nature the polypus is, it intercepts the passage of the air through the nostril, and, when large, forces the septum marium into the other nostril, so that the patient is unable to breathe, unless through the mouth. polypus pressing in like manner upon the spongy bones, gradually forces them down upon the maxillary bones. and thus compresses and stops up the oritice of the ductus lachrymalis; nor is it impossible for the sides of the canalis nasalis to be pressed together. In which case, the tears, having no passage through the nose, the eye is kept constantly watering, and the sacchus lachrymalis, not being able to discharge its contents, is sometimes so much dilated as to form what is called a flat fistula. The above writer has seen instances of poly puses so much enlarged as to force down the ossa palati.

The polypus of the uterus is of three kinds, in respect to situation. It either grows from the fundus, the inside of the cervix, or from the lower edge of the os uteri. The first case is the most frequent, the last the most uncommon. Polypi of the uterus are always shaped like a pear, and have a thin pedicle. They are almost invariably of that species which is denominated fleshy, hardly ever being scirrhous, cancerous, or ulcerated.

The coagulated substance which is found in the cavities of the heart of those who are some time in

raticule mortis, is improperly called a polypus.
POLYSA'RCIA. (From πολυς, much, and σαρξ, flesh.) Polysomatia; Obesidas; Corputentia; Stettites. Troublesome corpulency, obesity, or fatness. A genus of diseases in the Class Cachezia, and Order Lemmascrift of College. POLYSOMA TIA. (From woλυς, much, and σωμα.

a body.) See Polysarcia. POLYSPA'STUM. (From Polyspa's tum. (From wolvs, much, and σταω, to draw.) A forcible instrument for reducing luxu-

POLYTRI'CHUM. (From wolve, many, and θριξ, hair: so called from its resemblance to a woman's hair, or because, in ancient times, women used to dye the hair with it, to keep it from shedding.) con. I. The name of a genus of plants in the Lin-nusan system. Class, Cryptogamia; Order, Musci.

2. The pharmacopæial name of the golden maiden-

2. The purimicopieta mains of the possession lair. See Polytricum commune.

Polytracon commune. The systematic name of the golden maidenhair. Adianthum aureum. It possesses, in an inferior degree, astringent virtues: and was formerly given in diseases of the lungs and calculated the systematic property of the lungs are systematic property of the systematic ous complaints.

ous comptaints.

POMACEÆ. (From pomum, an apple.) The name of an order of plants in Linnœue's Fragments of a Natural Method, consisting of those which have a fruit of a pulpy, esculent, apple, berry, or cherry kind.

POMACEUM. (From pomum, an apple.) Cider, or the fernented juice of apple.

POMEGRANATE. See Punica granatum.

POMPHOLYGO'DES. (From ωσφολυξ, a bubble, and αδος, resemblance.) Urine, with bubbles on the

PO'MPHOLYX. (F small vesicle, or bubble. (From πομφος, a bladder.) 1. A

2. The whitish oxide of zinc, which adheres to the covers of the crucibles in making brass, in the form of small bubbles.

PO'MPHOS. (From ωεμφω, to put forth.) Pom-

phus. A bladder, or watery pustule.

POMUM. 1. An apple.

2. In botanical distinctions and language this is a fleshy pericarpium or seed-vessel, containing a capsule

within it, with several seeds. Its species are,

2. P. baccatum : as in Pyrus baccata.

3. P. murcatum; as in Momordica trifoliata.
4. P. htspidum; as in Momordica elaterium.
The navel-like remains is part of the calyx.

The pomum is comprehended by Gartner under the

different kinds of bacca, it being sometimes scarcely possible to draw the line between them. See Pyrus malus.

shieto draw the line between them. See Pyras malus. Pomm ADAM. (Pomma, an apple: so called in consequence of a whimsteal supposition, that part of the forbidden apple which Adam ate, stuck in the throat, and thus become the cause.) The protuberance in the anterior part of the neck, formed by the forepart of the throating drawd.

In the shierror part of the of the thyroid gland.

Pontem Amorits. See Nolanum lycopersicum.

Ponderous spar. See Henvy spar and Barytes.

PO NS. A bridge. A part of the brain is so called

from its arched appearance.

Pons varolii. Corpus annulare; Processus annularis; Eminentia annularis. Varolins's bridge. An eminence of the medulla oblongata, first described by Varolius. It is formed by the two exterior crura of the cerebellum becoming flattened and passing over the crura of the cerebrum.

PO'NTICA VINA. Acid, feculent, and tartarous wines.
PONTICM MEL. A poisonous honey.
Poor man's pepper. See Polygonum hydroppper,

For many personal and Legadium.
POPLAR. See Populus.
POPLAES. The ham, or joint of the knee.
POPLATE AL. (Popliteus; from poples, the ham.)
A small triangular muscle lying across the back part. of the knee-joint, is so called.

POPLITEAL ARTERY. Arteria poplitea. The continuation of the crural artery, through the hollow of

POPPY. See Papaver

POPPY. See Papaver.
Foppy, red corn. See Papaver rhwas.
Foppy, white. See Papaver somatferum.
POPULA GO. (From populus, the poplar; because its leaves resemble those of the poplar.)
See Catha

POPULUS. (From wolve, many; because of the multitude of its shoots.) 1. The name of a genus of plants in the Linnwan system. Class, Diwcia; Order, Octandria.

2. The pharmacopæial name of the black poplar. See Populus nigra.

POPULUS BALSAMIPERA. See Fagara.

POPULUS MIGRA. The systematic name of the black poplar. Ægeiros. The young buds, oculi, or rudiments of the leaves, which appear in the beginning of the spring, were formerly employed in an officinal oint-ment. At present they are almost entirely disregarded, ment. At present they are amost entirely unregarded, though they should seem, from their sensible qualities, to be applicable to purposes of some importance. They have a yellow, unctuous, odorous, balsamic juice.

Po'recus. A name for the pudendum muliebre.

PORT BILLARII. The biliary pores or ducts, that receive the bile from the penicilli of the liver, and con-

vey it to the hepatic duct. See Liver.

PORIFORMIS. Resembling a pore: applied to a nectary, when of that appearance, as that of the hyacinth, which has three like pores in the germen.

Poroce'le. (From πωρος, a callus, and κηλη, a tumour.) A hard tumour of any part, but especially of the testicle.

Poro'mphalum (From ωωρος, a callus, and ομφα-λος, the navel.) A hard tumour of the navel. PORPHYRA. Dr. Good's name for scurvy. See

PORPHYRY. A compound rock, having a basis, in which the other contemporaneous constituent parts are imbedded. The base is sometimes clay-stone, sometimes hornstone, sometimes compact felspar; or pitchstone, pearlstone, and obsidian. The imbedded parts are most commonly felspar and quartz, which are usually crystallized more or less perfectly, and hence they appear sometimes granular. According to According to Werner, there are two distinct porphyry formations; the oldest occurs in gneiss, in beds of great magnitude; and also in mica-slate and clay-slate. Between Blair in Athole and Dalnacardoch, there is a very fine example of a bed of porphyry-slate in mica. The second porphyry formation is much more widely according to ampie of a deal purply state in fines. In escond porphyry formation is much more widely extended. It consists principally of clay porphyry, while the former consists chiefly of hornstone porphyry and felspar porphyry.

ore, in veins. Gold, silver, lead, tin, copper, iron, and manganese occur in it: but chiefly in the newer porphyry, as happens with the Hungarian mines. It occurs in Arran, and in Perthshire between Dalnacardoch

and Tummet-proge.

PORRET. See Alliam porrum.

PORRI GO. (A porrigendo; from its spreading abroad.) A disease very common among children, in which the skin of the heat part of the head becomes dry and callous, and comes off like bran upon combing the head

the nead.

PO RRUM. See Allium porrum.

PO'RTA. (A portando, because through it the blood is carried to the liver.) That part of the liver where its vessels enter.

PORTE VENA. See Vena porta

PORTAIGUILLE. The acutenaculum

PORTIO DURA. (One branch of the seven pair of PORTIO DURA. (One oracin of the seven pair of nerves is called portio dura, the hard portion, either from its being more firm than the other, or because it runs into the hard part of the skull; and the other the portio mollis, or soft portion.) Facial nerve. This nerve arises near the pons, from the crus of the brain, enters the petrous portion of the temporal bone, gives off a branch into the tympanum, which is called the chorda tympani, and then proceeds to form the pes anserinus on the face, from whence the integuments of the face are supplied with nerves. See Fucial nerve.

PORTIO MOLLIS. Auditory nerve. Acoustic nerve. This nerve arises from the medulla oblongata and fourth ventricle of the brain, enters the petrous portion of the temporal bone, and is distributed on the internal ear, by innumerable branches, not only to the cochlea, but also to the membrane hning the vestibulum and semicircular canals, and is the immediate organ of

Portland powder. A celebrated gout remedy. It consists of various bitters: principally of hoarhound, bithwort, the tops and leaves of germander, groundpine, and centaury, dried, powdered, and sifted. It is now fallen into disuse.

now latten into dissise.

Portora/ration. (From porta, a door; because it la, as it were, the door or entrance of the intestines.)

The right orifice of the stomach.

PORTULA/CA. (From porto, to carry, and lac, milk; because it increases the animal milk). The name of a genus of plants in the Linnaran system.

Class, Dodecandria; Order, Digmia.

2. The pharmacopeial name of the purslane. See Portulage alarges.

Portulaca oleracea.

PORTULACA OLBRACEA. The systematic name of the eatable purslane. Andrachne; Allium gallicum The plant which is so called in dietetical and medical writings, abounds with a watery and somewhat acid

writings, abounds with a watery and somewhat actujuice, and is often put into soups, or pickled with spices.
It is said to be antiseptic and aperient.

PO'RUS. A pore or duct. A term used in anatomy,
and botany; the pores of the skin; and particularly
applied in botany to the small puncture-like openings
in the inferior surface of the genus Bolctus.

PO'SCA. Vinegar and water mixed.

POSSETUM. Posset. Milk curdled with wine,

treacle, or any acid. Parts are so named from their re-

lative situation. POSTERIOR ANNULARIS. Musculus posterior annu

laris. An external interosseal muscle of the hand. that extends and draws the ring-finger inwards.

POSTERIOR AURIS. See Retrahentes auris.
POSTERIOR INDICES. Musculus posterior indicis.
An internal interosseal muscle of the hand, that extends the fore-tinger obliquely, and draws it ontwards.

Posterior medil. An external interosseal muscle

It sometimes contains considerable repositories of | Table of the saline product of one thousand pounds of ashes of the following regetables:

| Stalks of Turkey wheat or amaise, | 198 lbs.              |
|-----------------------------------|-----------------------|
| Stalks of sun flower,             | 349                   |
| Vine branches,                    | 162.6                 |
| Elm,                              |                       |
| Box,                              | 78                    |
| Sallow,                           | 102                   |
| Oak,                              | 111                   |
| Aspen,                            |                       |
| Beech,                            | 219                   |
| Fir                               | 132                   |
| Fern cut in August,               | 116 for 125 according |
|                                   |                       |
| Wormwood,                         | 748                   |

..... 15 Wildenheim. Heath, .... Pto windendenne.
On these tables Kirwan makes the following re-

marks:-

1. That in general weeds yield more ashes, and their ashes much more salt, than woods; and that, con-sequently, as to salts of the vegetable alkali kind, as potassa, pearlash, cashup, &c. neither America, Trieste, nor the northern countries have any advantage over Ireland.

2. That of all weeds furnitory produces more salt, and next to it wormwood. But if we attend only to the quantity of salt in a given weight of ashes, the ashes of wormwood contain most. Trifolium fibrinum also produces more ashes and salt than fern.

The process for obtaining pot and pearlash is given

by Kirwan, as follows:

Funntory,.....

The weeds should be cut just before they seed,

 The weeds should be cut just before they seed, then spread, well dried, and gathered clean.
 They should be burned within doors on a grate, and the ashes kaid in a chest as fast as they are produced. If any charcont be visible, it should be picked out, and thrown back into the fire. If the weeds he moist, much coal will be found. A close smothered fire, which has been recommended by some, is very prejudicial.

3. They should be lixiviated with twelve times their 3. They smould be native that the solution of weight of boiling water. A drop of the solution of corrosive sublimate will immediately discover when the water ceases to take up nay more alkadi. The earthy matter that remains is said to be a good manure

for clayey soils.

4. The ley thus formed should be evaporated to dryness in iron pans. Two or three at least of these should be used, and the ley, as fast as it is concreted, passed from the one to the other. Thus, much time is saved, as weak leys evaporate more quickly than the stronger. The salt thus produced is of a dark colour, and contains much extractive matter, and being formed

in iron pots is called potassa.

5. This salt should then be carried to a reverberatory furnace, in which the extractive matter is burned off and much of the water dissipated; hence is generally loses from ten to fifteen per cent. of its weight. Particular care should be taken to prevent its melting, as the extractive matter would not then be perfectly consumed, and the alkali would form such a union with the extra care to extractive matter would not exily be discalled. View the earthy parts as could not easily be dissolved. wan adds this caution, because Dr. Lewis and Dossie have inadvertently directed the contrary. This salt thus refined is called pearlash, and must be the same

as the Dantzie pearlash.

To obtain this alkali pure, Bethollet recommends, to evaporate a solution of potassa, made caustic by boiling with quicklime, till it becomes of a thickiel consistence; to add about an equal weight of alkohol, and let the mixture stand some time in a close vessel. tends the fore-finger obliquely, and draws it ontwards.

Posterior media. An external interosseal muscle of the hand, that extends the middle finger, and draws it outwards.

POTAMOGETTON. '(From worapos, a river, and rivers.)

POTAMOSE Trom worapos, a river, and rivers.)

The name of a genus of plants in the Linture stand some solid matter partly crystallized will collect at the bottom; above this will be a small quantity of a dark-coloured fluid; and on the top another lighter. The latter, separated by decantation, is to be evaporated willed; and silver basin in a sand-heat. Glass, or almost any other metal, would be corroded by the pontacy of the portacy o to a pellicle, the potassa will concrete without regular | crystallization. In both cases a high-coloured liquor is separated, which is to be poured off; and the potassa must be kept carefully secluded from air

A perfectly pure solution of potassa will remain trans-parent on the addition of lune-water, show no effervescence with dilute sulphuric acid, and not give any precipitate on blowing air from the lungs through it by

means of a tube.

Pure potassa for experimental purposes may most Pure potassa for experimental purposes may mose easily be obtained by igniting cream of tartar in a crucible, dissolving the residue in water, filtering, boiling with a quantity of quicklime, and after subsidence, decanting the clear liquid, and evaporating in a lossely covered silver capsule, till it flows like oil, and then pouring it out on a clean iron plate. A solid white cake of pure hydrate of potassa is thus obtained, with out the agency of alkohol. It must be immediately broken into fragments, and kept in a well stoppered

As 100 parts of subcarbonate of potassa are equivalent to about 70 of pure concentrated oil of vitriol, if into a measure tube, graduated into 100 equal parts, we introduce the 70 grains of acid, and fill up the rewe introduce use of grains of acid, and in up the im-maining space with water, then we have an alkalimeter for estimating the value of commercial pearlashes, which, if pure, will require for 100 grains one hundred divisions of the liquid to neutralize them. If they contain only 60 per cent. of genuine subcarbonate, then 100 grains will require only 60 divisions, and so on. When the alkalimeter indications are required in pure or absolute potassa, such as constitutes the basis of nitre, then we must use 102 grains of pure oil of vitriol, along with the requisite bulk of water to fill up the

volume of the graduated tube.

The hydrate of potassa, as obtained by the preceding process, is solid, white, and extremely caustic; in mi process, is some, white, and extremely causite; in mute quantities, changing the purple of violets and cabbage to a green, reddened litmus to purple, and yellow fumeric to a reddish-prown. It rapidly attracts humidity from the air, passing into the oil of tartar per deliquium of the chemists; a name, however, also given to the deliquesced subsarbonate. Charcoal applied to the deliquesced subcarbonate. Charcoal applied to the hydrate of potassa at a cherry-red heat, gives birth to carburetted hydrogen, and an alkaline subcarbonate; but at a heat bordering on whiteness, carburetted hy-drogen, carbonous oxide, and potassium, are formed. Several metals decompose the hydrate of potassa, by Several metals decompose the hydrate of potassa, oy the aid of heat; particularly potassium, sodium, and iron. The fused hydrate of potassa consist of 6 deutoxide of potassium + 1.125 water = 7.125, which number represents the compound prime equivalent. It is used in surgery, as the potential cautery for forming eschars; and it was formerly employed in medicine diluted with broths as a lithontriptic. In chemistry, it is very extensively employed, both in manufactures and as a reagent in analysis. It is the basis of all the comas a reagent in analysis. It is the basis of all the common soft soaps. The oxides of the following metals are soluble in aqueous potassa;—Lead, tin, nickel, arsenic, cobalt, manganese, zinc, antimony, tellurium, tungsten, molybdenum.

The preparations of this alkali that are used in medi-

cine are

1. Potassa fusa. Liquor potasses

Potassa cum calce

Subcarbonas potassæ.

Carbonas potassæ.

Sulphas potassæ. Super-sulphas potassæ.

Tartras potassæ.

Acetas potassæ. 10. Citras potassæ

11. Oxychloras potassæ.

Arsenias potassæ.

13. Sulphuretum potassæ.

13. Suppuretum potasses.
Potassa, acctate of. See Potassa acctas.
Potassa, carbonate of. See Potassa carbonas.
Potassa, student. See Potassa issue.
Potassa, solution of. See Potassa liquor.
Fotassa, subcarbonate of. See Potassa subcarbonas.
Potassa, subcarbonate of, Solution of. See Potassa
Wheerborg is invocarbonate.

subcarbonatis liquor.

Potassa, sulphate of. See Potassæ sulphas. Potassa, sulphuret of. See Potassæ sulphuretum

Potassa, supersulphate of. See Potassæ superPotassa, supertartrate of. See Tartarum. Potassa, tartrate of. See Potassa tartras. Potassa with time. See Potassa cum catec. Potassa CCM CALCE. Potassa with time. Calx cum

FOTASSA CEN CALCE. POLISSA WITH TIME. CALL CHIEF REAL REAL PROPERTY. CLASSICUM commune fortus; Laps infernal is severe septreus. Take of solution of potassa three pints; fresh inne, a pound. Boil the solution of potassa down to a pint, then add the line, previously staked by the addition of water, and mix them together intimately. This is in common use with surgeous, as

infilinately. This is in common use with surgeous, as a caustic, to produce ulcerations, and to open abscesses. Potassa fusa. Fused potassa. Rali purum: alkali eegelubile jixum caustreum. Take of solution of potassa agallon. Evaporate the water, in a clean from pot, over the fire, until, when the ebuilition has ceased, the potassa renains in a state of fusion; pour it upon a clean from plate, into pieces of convenient form. This

a clean from plate, into pieces of convenient form. This preparation of potassa is violently caustic, destroying the living animal fibre with great energy.

Potassa inpura. See Potassa.

Potassa and a Relia celetatum; Sal dimeticus; Terra foliatu tucture; Sal semerti. Take of subcar bonate of potassa a pound. Strong acetic acid, two pints. District work pints. District work in the water, and add it gradually to the subcar bonate of potassa so long as may be necessary for perfect saturation. Let the solution be further reduced to one-half by evaporation, and strain it; then by means of a by evaporation, and strain it: then by means of a by evaporation, and strain it: then by means of a water-bath evaporate it, so that on being removed from the fire, it shall crystallize. The acetate of potassa is esteraned as a saline duretic and deobstruent. It is given in the dose of from gr. x. to 3 ss. three times a day in any appropriate vehicle against dropsies, hepatic obstructions, and the like.

Potassæ arsenias. See Liquor arsenicalis. Potassæ carbonas. Carbonate of potassa. Potassa carronas. Combinate of potassa. This preparation, which has been long known by the name of Kalt accutum, appeared in the last London Pharmacopeia for the first time. It is made thus:—Take of subcarbonate of potassa made from tartar, a pound: subcarbonate of ammonia, three ounces: distilled water, a pint. Having previously dissolved the subcarbonate of potassa in the water, add the subcarbonate of ammonia; then, by means of a sand bath, apply a heat of 180° for three hours, or until the ammonia shall be driven off; lastly, set the solution by, to crystallize. The remaining solution may be evaporated in the same namer, that crystals may again form when the same manner, that crystals may again form when

This process was invented by Berthollet. The po-tassa takes the carbonic acid from the ammonia, which is volatile, and passes off in the temperature employed. It is, however, very difficult to detach the ammonia en-Potassa is thus saturated with carbonic acid, of which it contains double the quantity that the pure subcarbonate of potassa does; it gives out this proportion on the addition of muriatic acid, and may be contion on the admition of intrinsic acid, and may be com-verted into the subsalt, by heating it a short time to red-ness. It is less nauseous to the taste than the sub-carbonate; it crystallizes, and does not deliquesce. Water, at the common temperature, dissolves one-fourth its weight, and at 212°, five-sixths; but this latter heat detaches some of the carbonic acid.

The carbonate of potassa is now generally used for the purpose of imparting carbonic acid to the stomach, by giving a scruple in solution with a table-spoonful of lemon juice, in the act of effervescing

POTASS E CHLORAS. Formerly called oxymuriate of

POTASS & LIQUOR. Solution of potassa. Aqua kali tri: Lixivium saponarium. Take of subcarbonate rotasse liquor. Solution of potassa. Aqua kali puri; Lixivium saponarium. Take of subcarbonate of potassa a pound, lime newly prepared half a pound. Boiling distilled water, a gallon. Dissolve the potassa in two pints of the water; add the remaining water to the lime. Mix the liquors while they are hot, stir them together, then set the mixture by in a covered vessel; and after it has cooled, strain the solution through a cotton bag

If any diluted acid dropped into the solution occasion the extrication of bubbles of gas, it will be necessary to add more lime, and to strain it again. A pint of this Solution ought to weigh sixteen ounces. POTASS & NITRAS. See Natre.

POTASSÆ SUBCARBONAS. Subcarbonate of potassa. formerly called, Kale praparatum; Sal absinthi; Sal tartari; Sal plantarum. Take of impure potassa. powdered, three pounds; boiling water, three plats and I tremities of a Voltale apparatus of 200 double plates, a haif. Dissolve the potassa in water, and filter; then pour the solution into a clean iron pot, and evaporate the water over a moderate fire, until the liquor thickens; then let the fire be withdrawn and stir the liquor constantly with an iron rod, until the salt concretes into granular crystals.

A purer subcarbonate of potassa may be prepared in the same manner from tartar, which must be first burned until it becomes ash-coloured.

This preparation of potassa is in general use to form the citrate of potassa for the saline draughts. A scru-ple is generally directed to be saturated with lemon In this process, the salt which is composed of potassa and carbonic acid is decomposed. The citric ponassa and carbonic acid is decomposed. I the citric acid having a greater affinity for the potassa than the carbonic, seizes it and forms the citrate of potassa while the carbonic acid flies off in the form of air. The subcarbonate of potassa possesses antacid virtues, and may be exhibited with advantage in convulsions and other spasms of the intestines arising from acidity, in calculous and gouty complaints, leucorrhea, scrofula, and aphthous affections. The dose is from ten grains to The dose is from ten grains to half a drachm.

POTASS.E SUBCARBONATUS LIQUOR. Solution of Subcarbonate of potassa. Aqua kali praparati; Lizivium tartari; Oleum tartari per deligacium. Take of subcarbonate of potassa, a pound; distilled water, twelve fluid-ounces. Dissolve the subcarbonate of potassa in the water, and then strain the solution through

POTASS & SULPHAS. Formerly called Kali vitriola-tum; Alkali vegetabile vitriolatum; Sal de duobus; Arcanum duplicatum; Sal polychrestus; Nitrum vitriolatum; Tartarum vitriolatum. Take of the salt which remains after the distillation of nitric acid, two pounds; boiling water, two gallons. Mix them that the salt may be dissolved; next add as much subcarbo-nate of potassa as may be requisite for the saturation of the acid; then boil the solution, until a pellicle appears upon the surface, and, after straining, set it by, that crystals may form. Having poured away the water, dry the crystals on bibulous paper. Its virtues are cathartic, diuretic, and deobstruent; with which intentions it is administered in a great variety of diseases, as constipation, suppression of the lochia, fevers, icterus, dropsies, milk tumours, &c. The dose is from one scruple to half an ounce.

Sulphuret of potassa POTASSE SULPHURETUM. Reli subplace time. Heper subplacers. Liver of sulphur. Take of washed sulphur, an onnce; subcarbonate of potassa, two onnecs; rub them together, and put them in a covered crucible, which is to be kept on the fire till they unite. In this process the carbonic acid is drawn off, and a compound formed of potassa and sulphur. This preparation has been employed in several cutaneous diseases with advantage, both interveral cutaneous diseases with advantage, both internally and in the form of bath or ointment. It has also been recommended in diabetes. The dose is from five

to twenty grains.

POTASSE SUPERARSENIAS. See Superarsenias po-

POTASS E SUPERSULPHAS. Supersulphate of potassa. Potass & supersulthas. Supersulpiate of potassa. Take of the salt which remains after the distillation of nitric acid, two pounds; boiling water four pints. Mix them together, so that the salt may be dissolved, and strain the solution; then boil it to one half, and set it by, that crystals may form. Having poured away the water, dry these crystals upon bibulous paper.
Potassæ superfartars. See Tartarum.
Potassæ tartrais. Tartrate of potassa, formerly called Kali tartarisatum; Tartarum solubile; Tartarus tartarisatus; Sal vegetabilis; Alkali vegetabile tartarisatum. Take of subcarbonate of potassa, sixteen ounces: superfartrate of potassa, three pounds;

teen ounces; supertartrate of potassa, three pounds; boiling water, a gallon. Dissolve the subcarbonate of potassa in the water; next add the supertartrate of potassa, previously reduced to powder, gradually, until bubbles of gas shall cease to arise. Strain the solution through paper, then boil it until a pellicle appear upon the surface, and set it by, that crystals may form. Having poured away the water, dry the crystals may form. Having poured away the water, dry the crystals upon bibulous paper. Diuretic, deobstruent, and eccoprotic virtues are attributed to this preparation.

POTASSIUM. The metallic basis of potassa. "If a thin piece of solid hydrate of potassa be placed between the processing the process of the process

tween two discs of platinum, connected with the ex-

four inches square, it will soon undergo fusion; oxy-gen will separate at the positive surface, and small megen will separate at the positive surface, and small installic globules will appear at the negative surface. There form the markellous metal potassium, first revealed to the world by Sir II. Davy, early in October, 1807

If iron-turnings be heated to whiteness in a curved gun-barrel, and potassa be melted and made slowly to gun-barrel, and potassa be merical and made showly to come in contact with the turnings, air being excluded, potassium will be formed, and will collect in the cool part of the tube. This method of procuring it was dis-covered by Gay Lussac and Thenard, in 1898. It may likewise be produced, by igniting potassa with char-coal, as Curandau showed the same year.

Potassium is possessed of very extraordinary proper-ties. It is lighter than water; its sp. gr. being 0.865 to water 1.0. At common temperatures it is solid, soft, and easily moulded by the fingers. At 150° F. it fuses, and in a heat a little below redness it rises in vapour. It is perfectly opaque. When newly cut, its colour is splendent white, like that of silver, but it rapidly tarnishes in the air. To preserve it unchanged, we must enclose it in a small phial, with pure naphtha. It conducts electricity like the common metals. When thrown upon water, it acts with great violence, and swins upon the surface, burning with a beautiful light of a red colour, mixed with violet. The water becomes a solution of pure potassa. When moderately heated in the air, it inflames, burns with a red light, and throws off alkaline fumes. Placed in chlorine, it and throws off alkaline furnes. Placed in chlorine, it spontaneously burns with great brilliancy.

On all fluid bodies which contain water, or much

oxygen or chlorine, it readily acts; and in its general powers of chemical combination, says its illustrious discoverer, potassium may be compared to the alka-hest, or universal solvent, imagined by the alchemists.

Potassium combines with oxygen in different propor-Potassum combines with oxygen in unlessed propor-tions. When potassiam is gently heated in common air or in oxygen, the result of its combustion is an orange-coloured fusible substance. For every grain of the metal consumed, about 17-10 cubic inches of oxy-gen are condensed. To make the experiment accurately, the metal should be burned in a tray of platina covered with a coating of fused muriate of potassa

The substance procured by the combustion of potas-The substance procured by the combustion of potassium at a low temperature, was first observed in October, 1807, by Sir H. Davy, who supposed it to be the protoxide; but Gay Lussac and Thenard, in 1810, showed that it was in reality the deutoxide or peroxide. When it is thrown into water, oxygen is evolved, and a solution of the protoxide results, constituting common aqueous potassa. When it is subsed and brought in contact with combustible bodies, they burn vividly, by the excess of its oxygen. If it be heated in carbonic acid, oxygen is disengaged, and common subcarbonate of potassa is formed.

When it is heated very strongly upon plating, oxygen.

When it is heated very strongly upon platina, oxygen gas is expelled from it, and there remains a diffi-culty fusible substance of a gray colour, vitreous frac-ture, soluble in water without effervescence, but with much heas. Aqueous potassa is produced. The above ignited solid is protoxide of potassium, which becomes pure potassa by combination with the equivalent quantity of water. When we produce potassium with ig nited iron-turnings and potassa, much hydrogen is disengaged from the water of the hydrate, while the iron becomes oxidized from the residuary oxygen. By heat ing together pure hydrate of potassa and boracic acid, Sir H. Davy obtained from 17 to 18 of water from 100

parts of the solid alkali.

By acting on potassium with a very small quantity of water, or by heating potassium with fused potassa, the protoxide may also be obtained. The proportion of oxygen in the protoxide is determined by the action of oxygen in the protoxide is determined by the action of potassium upon water. 8 grains of potassium produce from water about 9 cubic inches of hydrogen; and from these the metal must have fixed 42 cubic inches of oxygen. But as 100 cubic inches of oxygen weigh 33.9 gr. 42 will weigh 1.61. Thus, 9.61 gr. of the protoxide will contain 8 of metal; and 100 will contain 83.25 metal + 16.75 oxygen. From these data, the prime of potassium comes out 4.960; and that of the protoxide 5.969. Sir H. Davy adopts the number 75 for potassium, corresponding to 50 on the oxygen scale.

When potassium is heated strongly in a small quan-

tity of common air, the oxygen of which is not sufficlient for its conversion into potassa, a substance is formed of a grayish colour, which, when thrown into water, effervesces without taking fire. It is doubtful whether it be a mixture of the protoxide and potassium, or a combination of potassium with a smaller proportion of oxygen than exists in the protoxide. In

proportion of oxygen than exists in the protokue. In this case if would be a suboxide, consisting of 2 primes of potassium = 10 + 1 of oxygen = 11. When thin pieces of potassium are introduced into chlorine, the inflammation is very vivid; and then po-tassium is made to act on chloride of sulphur, there is The attraction of chlorine for potasan explosion. sium is much stronger than the attraction of oxygen for the metal. Both of the oxides of potassium are immediately decomposed by chlorine, with the forma-

tion of a fixed chloride, and the extrication of oxygen.

The combination of potassium and chlorine is the substance which has been improperly called myriate of potassa, and which, in common cases, is formed by causing liquid muriatic acid to saturate solution of po tassa, and then evaporating the liquid to dryness and igniting the solid residuum. The hydrogen of the acid igniting the solid residuum. The hydrogen of the acid here unites to the oxygen of the alkali, forming water, which is exhaled; while the remaining chlorine and potassium combine. It consists of 5 potassium + 4.5

Potassium combines with hydrogen to form potassuretted hydrogen, a spontaneously inflammable gas, which comes over occasionally in the production of potassium by the gun-barrel experiment. Gay Lussac and Thenard describe also a solid compound of the same two ingredients, which they call a hydruret of potassium. It is formed by heating the metal a long while in the gas, at a temperature just under ignition. They describe it as a grayish solid, giving out its hy-

drogen on contact with mercury.

When potassium and sulphur are heated together, they combine with great energy, with disengagement of heat and light even in vacuo. The resulting sulphuret of potassium, is of a dark gray colour. It acts with great energy on water, producing sulphuretted hydrogen, and burns brilliantly when heated in the air, becoming sulphate of potassa. It consists of 2 sulphur + 5 potassium, by Sir H. Davy's experiments. Potascium has so strong an attraction for sulphur, that it rapidly separates it from hydrogen. If the potassium be heated in the sulphuretted gas, it takes fire and burns with great brilliancy; sulphuret of potassium is formed, and pure hydrogen is set free.

Potassium and phosphorus enter into union with the

evolution of light; but the mutual action is feebler than in the preceding compound. The phosphuret of potassium, in its common form, is a substance of a dark checolate colour, but when heated with potassium dark chocolate colour, but when heated with potassium in great excess, it becomes of a deep gray colour, with considerable lustre. Hence it is probable, that phosphorus and potassium are capable of combining in two proportions. The phosphuret of potassium burns with great brilliancy, when exposed to air, and when thrown into water produces an explosion, in consequence of the immediate disengagement of phosphuretted buttergen.

retted hydrogen.

Charcoal which has been strongly heated in contact with potassium, effervesces in water, rendering it alkaline, though the charcoal may be previously exposed to a temperature at which potassium is volatilized. Hence, there is probably a compound of the two formed by a feeble attraction.

Of all known substances, potassium is that which of an known substances, potassium is that which has the strongest attraction for oxygen; and it produces such a condensation of it, that the oxides of potassium are denser than the metal itself. Potassium has been skilfully used by Sir H. Davy and Gay Lussac and Thenard, for detecting the presence of oxygen in bodies. A number of substances, undecomposable by other chemical agents, are readily decomposed by this substance."—Ure's Chem. Diet.
Potassium, oxide of. The potassa of the shops.
POTATO. The word potato is a degeneration of

atatas, the provincial name of the root in that part of Peru from which it was first obtained. See Solanum

Potato, Spanish. See Convolvulus batatas.
[Potato fires. See Canthurides vitlata. A.]
[Potato, wild. See Convolvulus panduratus. A.]
POTENTIAL. Potentialis. 1. Qualities which

are supposed to exist in the body in potentia only; oy are supposed to exist in the body in potentia only; or which they are capable, in some measure, of effecting and impressing on us the ideas of such qualities, though not really inherent in themselves: in this sense we say, potential heat, potential cold, &c.

2. In a medical sense it is opposed to actual: hence we say, an actual and potential caustic. A red-hot iron is actually caustic; whereas potassa pura, and ritras argentia are potentially so, though cold to the touch. Potential cautery. See Potassa fusa, and Argentimitras.

POTENTILLA. (A potentia, from its efficacy.)

1. The name of a genus of plants in the Linnæan system. Class, Lossandria; Order, Polygynia.

2. The pharmacopetial name of the wild tansy. See

Potentilla anserina

POTENTILLA ANSERINA. The systematic name of the silver-weed, or wild tansy. Argentina; Anserina. The leaves of this plant, Potentilla—foliis dentatis, serratis, caule repente, pendunculis unifloris, of Linnaus, possess mildly adstringent and corroborant qua-

lities; but are seldom used, except by the lower orders. POTENTILIA REPTANS. The systematic name of the common cinquefoil, or five-leaved grass. Pertaphyllum. The roots of this plant, Potentilla—folics quinatis, caule repente, pedunculis unifloris, of Linnaus, have a bitterish styptic taste. They were used by the ancients in the cure of intermittents: but the medicinal quality of cinquefoil is confined, in the present

day, to stop diarrheas and other fluxes.

POTE RIUM. (From wormploy, a cup: so named from the shape of its flowers). The name of a genus of plants in the Linnwan system. Class, Monacia;

Order, Polyandria.

POTERIUM SANGUISORBA. The systematic name of the Burnet saxifrage, the leaves of which are often put

the Burnet saxifiage, the leaves of which are often put into cool tankards; they have an adstringent quality. POTSTONE. Lapis-ollaris. A greenish-gray mineral, found abundanily on the shores of the lake Como, in Lombardy, in thick beds of primitive slate, and fashioned into culinary vessels in Greenland. It is a subspecies of rhomboidal mica of Jameson.

POTT, PERCIVAL, was born in London, in 1713. was the wish of his friends to bring him up to the church, in which he might have obtained good patronage; but he had an irresistible inclination to the sur-gical profession. He was accordingly apprenticed to Mr Nourse, of St. Bartholomew's Hospital, who gave anatomical lectures; for which he was employed in preparing the subjects, and thus laid the best founda-tion for chirurgical skill. In 1744, he was elected as-sistant-surgeon; and, five years after, one of the prin-cipal surgeons at the hospital. He had the merit of chiefly bringing about a great improvement in his pro-fession, availing himself of the resources of nature under a lenient mode of treatment, and exploding the frequent use of the cautery, and other severe methods formerly resorted to. In 1756, he had the misfortane to receive a compound fracture of the leg; but the confinement occasioned by this accident led him to compose his "Treatise on Ruptures;" which was soon followed by an account of the Hernia Congenita. soon followed by an account of the frama Congenia. In 1758, he produced a judicious essay on "Fistula Lachynnais;" and, two years after, an elaborate dissettation "On Injuries of the Head," which was soon followed by "Practical Remarks on the Hydrocele," In 1764, he was elected a Fellow of the Royal scc. In 1704, he was elected a Fellow of the Royal Society, and about the same period he instituted a course of lectures on surgery. In the following year, his treatise "On Fistula in Ano" appeared, in which he effected a very great improvement; and, in 1768, some remarks "On Fractures and Dislocations" were called to a now odding of his work on Limitage of the added to a new edition of his work on injuries of the Head. Seven years after this, he published "Chirungical Observations" on Cataract, Polypus of the Nose, Cancer of the Serotum, Ruptures, and Mortification of the lower Extremities: this was soon succeeded by a "Treatise on the Necessity of Amputation in some Cases;" and by "Remarks on the Palsy of the lower Limbs," from Curvature of the Spine. He had now attained the greatest eminence in his profession; but, towards the close of the year 1788, a severe attack of fever, neglected at first, terminated his active and valuable life. added to a new edition of his work on Injuries of the luable life.

POUCH. 1. Sacculus. In anatomy, a morbid dilatation of any part of a canal, as the intestine.

2. In botany, see Silicula.

POUPART'S LIGAMENT. Ligamentum Poupartii. Fallopian ligament. Inguinal ligament. A strong ligament, or rather a tendinous expansion of the exterand oblique muscle, going across from the inferior and anterior spinous process of the illum to the crists of the os pubis. It is under this ligament that the femoral vessels pass; and, when the intestine or omentum passes underneath it, the disease is called a femoral

Powder, antimonial. See Antimonialis pulvis. Powder of burnt hartshorn with opium. See Pulris cornu usti cum opro

Powder, compound, of aloes. See Pulvis aloes com-

Powder, compound, of chalk. See Pulvis cretæ compositus.

Powder, compound, of chalk, with opium. See Pul-

vis cretæ compositus cum opio. Powder, compound, of cinnamon. See Pulvis cin-

namomi compositus. Powder, compound, of contrayeroa. See Pulvis con-

trayervæ compositus Powder, compound, of ipecacuanha. See Pulvis

ipecacuanha compositus Powder, compound, of kino. See Pulvis kino com-

positus. Powder, compound, of scammony. See Pulvis scam-

moneæ compositus. Powder, compound, of senna. See Pulvis sennæ

compositus. Powder, compound, of tragacanth. See Pulvis tragacanthe compositus.

Power, muscular. See Irritability, and Muscular motion

Power, tonic. See Irritability. Pracipitate, red. See Hydrargyri nitrico-ozydum. Pracipitate, white. See Hydrargyrum pracipitatum albun

PRÆCO'RDIA. (Præcordia, orum. n.; from præ, before, and cor, the heart.) The forcpart of the region of the thorax.
PRÆTO'RNIUM. (From præ, before, and furnus, a

PRAFFURNUM. (From pres, before, and furnaus, a furnace. The mount of a chemical furnace.

PRÆMORSUS. (From pramordes, to bite off.) Bitten off. In botany, this term is differently applied: the rades promores is an abrupt root, naturally, it is supposed, inclined to a taper root; but, from some decay or interruption in its descending point, it becomes abrupt, or, as it were, bitten off; as in the Scabiosa success, and Hedupmos herta.

The other promore of this formed root is thus described.

The old opinion of this formed root is thus described in Gerald's Herbal: "The great part of the root seem-eth to be bitten away: old fantasticke charmers report, that the divel did bite it for envie, because it is an herbe that hath so many good vertues, and is so beneficial to mankinde."

The folium pramorsum is jagged, pointed, very blunt, with various irregular notches, as in Epiden-

drum præmorsum, &c.
PREPARA'NTIA MEDICAMENTA. PREPARA'NTIA MEDICAMENTA. Medicines which were supposed to prepare the peccant fluids to pass off.

PREPARANTIA VASA. The spermatic vessels of the

PREPUCE. See Praputium.
PREPUTIUM. (From praputo, to cut off before, because some nations used to cut it off in circumcision.) Epagogian of Dioscorides. Posthe. The prepue. The membranous or cutaneous fold that covers

poee. The memoranous or cusaneous rold that covers the glaus penis and clitoris.

PRASE. A green leek-coloured mineral, found in the island of Bute, and in Borrodale.

PRASE. (From TRUESTA) a square border: so called from its square stakes.) Hoarhound. See Marrubium vulgare.

(From πραω, to burn; because of its hot PRA'SUM. (Frotaste.) The leek.
PRA'XIS. (Fr

From ποασσω, to perform.) The prac-

to cast down.) When two bodies are united, for instance, an acid and an oxide, and a third body is added, such as an alkali, which has a greater affinity with the acid than the metallic oxide has, the consequence is, that the alkali combines with the acid, and the oxide, thus deserted, appears in a separate state at the bottom of the vessel in which the operation is per-206

the name of precipitation, and the substance that sinks is named a precipitate. The substance, by the addition of which the phenomenon is produced, is denominated the precipitant.

PRE DISPOSING. (Pradisponens; from pradisponen, to predispose) Causa protegumena. That well the producer the hole produce the part of the predispose of the

peno, to predispose) Causa procedumena. That which renders the body susceptible of disease. The most frequent predisposing causes of diseases are the temperament and habit of the body, idiosyncrasy, age,

temperament and hanf of the body, inosyncrasy, age, sex, and structure of the part.

PREDISPOSITION. (Pradispositio. That constitution, or state of the solids, or fluids, or of both, which disposes the body to the action of disease.

PREGNANCY. Utero gestation. The particular manner in which prepanacy takes place has bitherto remained involved in obscurity, notwithstanding the laborious investigation of the most eminent philosophers of all ages. Although in a state which (with a few exceptions) is natural to all women, it is in ge Although in a state which (with neral the source of many disagreeable sensations, and often the cause of diseases which might be attended with the worst consequences, if not properly treated. It is now, however, universally acknowledged, that

these women who bear children enjoy, usually, more certain health, and are much less liable to dangerous diseases, than those who are unmarried, or who prove

Signs of pregnancy.—The womb has a very extensive influence, by means of its nerves, on many other site influence, by means of its nerves, on many other parts of the body; hence, the changes which are produced on it by impregnation, must be productive of changes on the state of the general system. These constitute the signs of pregnancy.

During the first fourteen or fifteen weeks, the signs

of pregnancy are very ambiguous, and cannot be de pended on; for, as they proceed from the irritation of the womb on other parts, they may be occasioned by every circumstance which can after the natural state of that organ

The first circumstance which renders pregnancy probable, is the suppression of the periodical evacuation, which is generally accompanied with fulness in the breasts, headache, flushings in the face, and heat in the palms of the hands.

These symptoms are commonly the consequences of suppression, and therefore are to be regarded as signs suppression, and therefore are to be regarded as signs of pregnancy, in so far only as they depend on it.

As, however, the suppression of the periodical exposure to cold, or from the change of life in consequence of mar-

riage, it can never be considered as an infallible sign.

The belly, some weeks after pregnancy, becomes flat, from the womb sinking, and hence drawing down the intestines along with it; but this cannot be looked upon as a certain sign of pregnancy, because an enlargement of the worth from our other cause an enlargement of the worth from our other cause and largement of the womb from any other cause will produce the same effect.

Many women, soon after they are pregnant, become very much altered in their looks, and have pecutiar irritable feelings, inducing a disposition of mind which renders their tempers easily ruffled, and inciting an irresistible propensity to actions of which, on other occasions, they would be ashamed.

In such cases, the leatures acquire a peculiar sharp-ness, the eyes appear larger, and the mouth wider, than usual; and the woman has a particular appearance, which cannot be described, but with which women are well acquainted.

These breeding symptoms, as they are called, originate from the irritation produced on the word by impregnation; and, as they may proceed from any other circumstance which can irritate that organ, they cannot be depended on when the woman is not young, or where there is not a continued suppression for at least

The irritations on the parts contiguous to the womb are equally ambiguous; and therefore the signs of pregnancy, in the first four months, are always to be considered as doubtful, unless every one enumerated be

distinctly and equivocally present.

From the fourth month, the signs of pregnancy are less an aid and an oxide, and a finite body is not have a made an alkali, which has a greater affinity acid than the metallic oxide has, the conseins, that the alkali combines with the acid, and e, thus deserted, appears in a separate state at an of the vessel in which the operation is performed that its motions begin to be felt by the motion; and hence a sign is furnished at that period called quickening. Women very improperly consider this sign as the most unequivocal proof of pregnancy; for though, when it occurs about the period described, preceded by the symptoms formerly enumerated, it may be looked upon as a sure indication that the woman is with child, yet, when there is an irregularity, either in the preceding symptoms or in its appearance, the situation of the woman must be doubtful.

This fact will be easily understood; for as the sensation of the motion of the child cannot be explained, or accurately described, women may readily mistake other sensations for that of quickening. Flatus has often been so pent up in the bowels, that the natural pulsation of the great arteries, of which people are conscious only in certain states of the body, has frequently been

mistaken for this feeling.

After the fourth month, the womb rises gradually from the cavity of the pelvis, enlarges the belly, and pushes out the navel; hence the protrusion of the navel pushes out the navel. hence the protrusion of the navel has been considered one of the most certain signs of pregnancy in the latter months. Every circumstance, however, which increases the bulk of the belly occa-sions this symptom; and therefore it cannot be trusted to, unless other signs concur.

The progressive increase of the belly, along with sup-

pression, after having been formerly regular, and the consequent symptoms, together with the sensation of quickening at the proper period, afford the only true

marks of pregnancy.

These signs, however, are not to be entirely depended on; for the natural desire which every woman has to be a mother, will induce her to conceal, even from herself, every symptom which may render her situation doubtful, and to magnify every circumstance which can tend to prove that she is pregnant.

Besides quickening and increase of bulk of the belly, Desires quireming and increase or once of the leading another symptom appears in the latter months, which, when proceeded by the ordinary signs, tenders pregnancy certain beyond a doubt. It is the presence of milk in the breasts. When, however, there is any irregularity in the preceding symptoms, this sign is no longer to be

considered of any consequence.

As every practitioner must naturally wish to distinguish pregnancy from disease, the disorders which re-semble it should be thoroughly understood, and also Semble it should be thoroughly understood, and asset their diagnostics. It is, however, necessary to remark, that wherever any circumstance occurs which affords the most distant reason to doubt the case, recourse ought to be had to the advice of an experienced practitioner, and every symptom should be unreservedly described to the case. scribed to him.

PREHE'NSIO. (From prehendo, to surprise: so named from its sudden seizure.) The catalepsy.

PREHNITE. Of prismatic prehnite there are two subspecies, the foliated, and the fibrous. The first is of an apple-green colour, found in France, the Savoy and Tyrol, and beautiful varieties in the interior of southern Africa. The fibrous is of a siskin green co-

lour, and occurs in Scotland.

lour, and occurs in Scotland.

PRESBYO'PIA. (From mgcsby, old, and ωψ, the eye; because it is frequent with old men.) That defect of the sight by which objects close are seen confusedly, but, at remoter distances, distinctly. As the myopia is common to infants, so the preshyopia is a matarly common to the aged. The proximate cause is a cardy adunation of the rays in a focus, so that it falls beyond the retina. The species are,

1. Presbyopia from a flatness of the cornea. much the cornea is flatter, so much the less and more ardy it refracts the rays into a focus. This evil arises, 1st, From a want of aqueous or vitreous humour, which is common to the aged; or may arise from some dis-case; 2d, From a cicatrix, which diminishes the con-vexity of the cornea: 3d, From a natural conformation

of the cornea.

2. Presbyopia from too flat a crystalline lens. This evil is most common to the aged, or it may happen from

a wasting of the crystalline lens

a wasting of the crystalline lens.

3. Presbyopia from too small density of the cornea or humours of the eye. By so much more these humours are thin or rarified, so much the less they refract the rays of light. Whosever is affected from this cause is cured in older age; for age induces a greater density of the cornea and lens. From this it is an observed fact, that the presbyopes are often cured spontaneously, and throw away their glasses, which younger memory in this disease, as obliged to use persons in this disease are obliged to use.

4. Presbyopia from a custom of viewing continually remote objects; hence artificers who are occupied in remote objects are said to contract this malady. The reason of this phenomenon is not very clear.

Presbyopia senilis. From a multitude of causes ared persons are presbyopes; from a pennyr of hu-nours, which render the cornea and lens flatter, and the bulb shorter. When in senie age, from dryness, the bulb of the eye becomes flatter and shorter, and the cornea flatter, those who were short-sighted or myopes before, see now without their concave glasses.

6. Presbyopia, from too close a proximity of objects. The focus is shorter of distant, but longer of nearer

objects.

7. Presbyopia from a coarctated pupil.

8. Presbyopia mercurialis, which arises from the use of mercurial preparations. The patient feels a pressing of mercural preparations. The patient feels a pressing pain in the eye, which, from being touched, is increased, and the bulb of the eye appears as if ngid, and with difficulty can be moved. Near objects the patient can scarcely distinguish, and distant only in a confused manner. Many have supposed this disorder an imperfect consumer. fect amaurosis.

See Presbyopia PRE'SBYTE

TRE-BRY-XI. See Pressingina. PRESBY THA. (From  $\varpi_{per}$   $\omega_{per}$ ) did because it is usual to old scople.) See Pressingina. PRESU'RA. (From  $\pi o\eta \theta_{\omega}$ , to inflame.) Inflammation at the ends of the inners from cold.

PRIAPEI'A. See Nicotiana rustica.
PRIAPI'SCUS (From πριαπος, the penis.) 1. A tent made in the forn of a penis.

2. A bougie. PRIAPISM. See Priapismus.

PRIAPI'SMUS. PRIAPI'SMUS. (From πριαπος, a heathen god, whose penis is always painted erect.) Priapism. A continual erection of the penis.

PRIA PUS. (Πριαπος, a heathen god, remarkable for the largeness of nis genitals.)

The penis or membrain virile.
 A name of the nepenthes, or wonderful plant, from the appendages at the end of the leaves resem

bling an erected penis.
PRICKLE. See Jeuleus.
Prickly-heat. See Jecken trapicus.
["Prickly Ast. Xanthoxylum fraxineum. Xanthorylum frazineum is a prickly shrub, found in the northern, middle, and western parts of the United States, in woods and moist shady declivities. "The leaves and rind of the fruit resemble those of

"The leaves and rund or the transcension sessions the lemon in their tasts and smell, and possess a similar volatile oil. The bark possesses a separate acrid principle, which is communicated to water and alkohol, but does not come over in distillation. The acrimony but does not come over in distinction. The actiniony is not perceived when the bark or liquid is first taken into the mouth, but gradually developes itself by a burning sensation on the tongue and fauces.

"Prickly ash has acquired much reputation as a remedy in chronic rheumatism. In that disease it has an operation analogous to that of mezercon and guaiacum, which it recembles in its sensible properties. Taken in full doses, it produces a sense of heat in the stomach, a tendency to perspiration, and a relief to

rheumatic mains.

"Twenty grains can be taken three times a day in powder, or an ounce may be boiled in a quart of water, and the decoction taken during twenty-four hours."-

Big. Mat. Med. A.] PRI'MÆ VIÆ. The first passages. The stomach and the intestmal tube are so called, because they are the first passages of what is taken into the stomach; the lacteals the secundar via, because the nourishment next goes into them; and lastly, the blood vessels, which are supplied by the lacteals, are called via

PRIMARY. Primarius. A term in very general use in medicine and surgery. It is applied to diseases, to their symptoms, causes, &c. and denotes priority in opposition to what follows, which is secondary: thus, when inflammation of the diaphragm produces furious when inflammation of the captures produces drough delirium, the primary disease is the paraphrenitis; so when gallstones produce violent pain, vomiting, &c., which are followed by jaundice, white faces, porter-coloured urine, &c; the pain and vomiting are primary symptoms, the jaundice and white stools are secondary, &c.
Primaru teeth. See Teeth.

Primrose. See Primula vulgaris.

PRI'MULA. (From primulus, the beginning: so called because it flowers in the beginning of the spring.) The name of a genus of plants in the Linnæan system

Class, Pentandria; Order, Monogynia.

Class, Pentandria; Order, Managynia.

PRIMITLA VERIS. (Proin primarius, the beginning: so called because it flowers in the beginning of the spring.) Verbasculum. The cowslip, paigil, or peagle. The flowers of this plant have a moderately strongand pleasant smell, and a sonnewhat roughish bitter taste. Vinous fliquers impregnated with their flavour by maceration or fermentation, and strong infusions of them damb as the are summosed to be midtly expressionary. ceration or termination, and smooth in the dramk as tea, are supposed to be middly corroborant, antispasmodic, and anodyne. An infusion of three pounds of the fresh flowers in five pints of boiling water is made in the shops into a syrup of a fine yellow. colour, and agreeably impregnated with the flavour of the cowslip.

PRIMULA VULGARIS. The primrose. The leaves and root of this common plant possess sternutatory pro-

perties

perties.

PRI'NCEPS ALEXIPHARMACORUM. The Angelica was formerly so much estermed as to obtain this name.

PRINCIPLES. Principia. Primary substances.

Substances or particles which are composed of two or more elements; thus water, gelatine, sugar, fibrine, &c. are the principles of many bodies. These principles are composed of elementary bodies, as oxygen, hydrogen, souch &c. which are undecomposable.

en, azote, &c. which are undecomposable.
PRINGLE, Sir John, was born in Scotland in 1707, Having determined to make medicine his profession, he went to Edinburgh for a year, and then to Leyden, to profit by the instructions of the celebrated Boerhaave, where he took his degree in 1730. Then settling at Edinburgh, he obtained four years after the appointment of professor of moral philosophy jointly with Mr. Scott. In 1742 he was made physician to the Earl of Stair, who then commanded the Builsh army, and soon after physician to the military lospital in Planders. He acquitted himself with se much credit, that the Duke of Cumberland, who succeeded to the command, appointed him, in 1745, physician general to the forces, and subsequently to the royal hospitals, in the Low and subsequently to the royal hospitals, in the Low Countries, when he resigned his Scotch professorship. He soon after accompanied the same nobleman in his expedition against the rebels in Scotland: but his 1747, went again to the army abroad, where he continued till the treaty of Aix-la-Chapètle. The Buke of Cumberland then appointed lim his physiciam, and he settled in London; but the war of 1755 called him again to the army, which, however, he finally quitted three years after. He had been elected a fellow of the Royal Section in 1745 and on settling in London, contributed years after. He had been elected a fellow of the Royal Society in 1745, and on settling in London, contributed many papers to their Transactions, particularly his Experiments on Septic and Antiseptic Substances, for which he was presented with the Copleian medal. 1752 his "Observations on the Diseases of the Army" first appeared, and rapidly passed through several editions, and was translated into other languages: the wility of the work, indeed, equalled the reputation it acquired, and which it still preserves, especially from the importance of the prophylactic measures suggested. After quitting the army, he was admitted a licentiate. and his fame as a physician, as well as philosopher, speedily attained a high pitch; he received successively various appointments about the royal family, was elected a fellow of the College, and in 1766 raised to the dignity of a baronet. Among numerous literary honours from various academies of science in Europe, the highest was conferred upon him in 1770, being then elected president of the Royal Society: the duties of which office he zealously fulfilled for eight years, when declining health compelled his resignation. courses on the annual presentation of the Copleian medals displayed so much learning and general information, that their publication was requested. In 1780 he went to Edinburgh for the improvement of his health; but the want of his accustomed society, and the sharpness of the air, compelled him to return in the following year; he presented, however, to the College of Physicians there before his departure ten folio volumes, in manuscript, of "Medical and Physical Observations," with the restriction that they should not be published, nor lent out of the library. His death

happened soon after his return to London, namely, in the beginning of 1782.

PRIONO DES. (From πριων, a saw.) Serrated: applied in old writings to the sutures of the skull.

PRI'OR. The first; a term applied to some muscles from their order.

Musculus prior PRIOR ANNULARIS. annularis. Fourth interesseus, of Winslow. An internal in teresseus muscle of the hand. See Interesseu manus. An internal in-

PRIOR INDICIS. Extensor tertu internodu indicis, PRIOR INDICES. Excensive territ internounce indicas, of Douglas. Sew-meta-corpor-lateriphalangien, of Dumas. An internal interosseal muscle of the hand, which draws the fore-finger inwards towards the thumb, and extends it obliquely.

PRIOR MEDIL. Musculus prior medii; Second inter-osseus, of Douglas, and seu-metacaspo laters phalan-gien, of Dumas. An external interosseous muscle of the hand. See Interossee manus.

PRO RE NATA. A term frequently used in extemporaneous prescriptions, and implies occasionally, as the occasion may require; thus, an apprient dose is directed to be taken pro re nata.

PROBANG. A flexible piece of whalebone with sponge fixed at the end.

PROBE. (From probo, to try; because surgeon's try the depth and extent of wounds, &c. with it.) Stylus. A surgical instrument of a long and slender

PRO BOLE. (Προβολη, a prominence; from προβαλ-

 $\lambda \omega_{\rm b}$  to project.) See Apophysis. PROBO SCIS. (From  $\pi p \sigma_{\rm b}$  before, and  $\beta \sigma \sigma \kappa \omega_{\rm b}$ , to freed.) A snout or trunk, as that of an elephant, by which it feeds itself.

PROCA'RDIUM. (From προ, before, and καρδια, the ounach or heart.) The pit of the stomach.

PROCATARCTIC. (Procutarcticus; from προκα-

stomach or heart. The pit of the stomach PROCATARCTIC. (Procatarcticus; rapyw, to go before.) See Exciting cause. PROCESS. (Processus; from procedo

PROCESS. (Processus; from procedo, to go before.) An eminence of a bone; as the spinous and transverse processes of the vertebre.
PROCESSUS. See Process.
PROCESSUS CRCI VERMIFORMIS. See Intestine.

PROCESSUS CAUDATUS. See Lobulus candatus. PROCESSUS CHARRIS. See Ciliar ligament.

PROCESSUS MAMILLARES. A name formerly applied

to the olfactory nerves.

PROCIDE NTIA. (From procido, to fall down.)

A falling down of any part; thus, procidentia ani,

uteri, vaginæ, &c. PROCO NDYLUS.

(From προ, before, and κονδυλος, the finger.) The first joint of a finthe middle joint of the finger.)

the middle joint of the fiager.) The first joint of a finger next the metacarpus.

PROCTA'I.GIA. (From  $\pi p \omega \kappa \tau \sigma \varsigma$ , the fundament, and  $a\lambda \gamma \omega \varsigma$ , pain.) A violent pain of the anus. It is mostly symptomatic of some disease, as piles, scirrhus, prurigo, cancer, &c.

PROCTFCA. (From  $\pi p \omega \kappa \tau \sigma \varsigma$ , the fundament.) The name of a genus of diseases in Good's Nosology; Class, Cwlinca, Order, Enterica. Pain or derangement about the survey of the second s

ment about the anus, without primary inflammation. It has six species, viz. Proctica simplex, spasmodica,

PROCTI'TIS. (From προκτος, the anus.) Clunesia, Cyssotis. Inflammation of the internal or nuccus

membrane of the lower part of the rectum.

membrane of the lower part of the rectum.

PROCTOLECTORHEE'A. (From πρωκτος, the anus, λευκος, white, and ρεω, to flow.) Proctorrhea. A purging of white mucus.

PROCTORRIEE'A. (From πρωκτος, the anus, and ρεω, to flow.) See Proctoleucorrhea.

PRODUCTIO. See Appolysiss.

PROCOTIA. (From πρωις premature.) The name of a genus of disenses in Good's Nosology. Class 62e-notica; Order, Organica. Genital precocity. It has two species, viz. Præotia masculina, and feminina.

PROCUMBENS. Procumbent. Applied to stems, as that of Lugimachia nemorum.

PROCUMBERNS. Procumbers. Approach to steam, as that of Lysimachia nemorum.

PROFLUVIUM. (Promprofluo, to run down.) A flux. Profluvia. Fluxes. The fitth order in the class Pyrexia, of Cullen's Nosology, characterized by pyrexia, with improved arregaining. rexia, with increased excretions

PROPELVIE ORIEK. See Novium antidysentericum. PROFUNDUS. See Flexor profundus perforans. PROFU'SIO. A genus of disease in the class Locales, and order Apocenoses, of Cullen. A passive loss of blood.

of monod.

Proof.of'ssis. (From ποο, before, and γλωσσα, the tongue.) The tip of the tongue.

PROGNO SIS. (From ποο, before, and γινωσκω, to know.) The foretelling the event of diseases from to know.) particular symptoms.

PROGNOSTIC. (Prognosticus; from προγινωσκω, to know beforehand.) Applied to those symptoms which enable the physician to form his judgment or prognosis of the probable cause or event of a disease.

prognosis of the probable cause or event of a disease.

PROJECTER. See Apophysis:

PROLATEUR. See Apophysis:

PROLATEUR. See Apophysis:

Procidentia; Delapsio; Exania; Proptoma; Proptosis. A protrusion. A genus of disease in the class Locales, and order Ectopus, of Culien; distinguished by the falling down of a part that is uncovered.

PROLE PTICUS. (From προλαμβανο, to anticipate.) Applied to those diseases, the paroxysms of which anticipate each other, or return after less and less inter-

of intermission

PROLIFER. (From protes, an offspring, and fero, to bear.) Prolife, or proliferous: applied to those stems which shoot out new branches from the summit of the former ones, as in the Scotch fir; Pinus syl-

PROMALACTE'RIUM. (From  $\pi\rho_0$ , before, and  $\mu\alpha\lambda\sigma\sigma_0$ , to soften.) The room where the body is softened previous to bathing.

PROMETORI DIUK. (From προ, before, and μετωπον, the forehead.) Prometopis. The skin upon the fore-

PROMETO'PIS. See Prometopidium.
PRONATION. Pronatio. The act of turning the palm of the hand downwards. It is performed by rotating the radius upon the ulna, by means of several muscles which are termed pronators.

PRONA'TOR. A name given to two muscles of the

hand, the pronator radii quadratus, and pronator radii teres; the use of which is to perform the opposite action to that of the supinators, viz. pronation.

PRONATOR QUADRATUS. See Pronator radii quad-

ratus.

PRONATOR RADII BREVIS. See Pronator radii quad-

PRONATOR RADII QUADRATUS. Pronator quadratus, of Douglas and Albinus; Pronator quadratus sive transversus, of Winslow; Pronator radii provis seu quadratus, of Cowper; Cubito radial, of Dumas. This, which has gotten its name from its use and its shape, is a small fleshy muscle, situated at the lower and inner part of the forearm, and covered by the ten-dons of the flexor muscles of the hand. It arises ten-dinous and fleshy from the lower and inner part of the ulna, and runs nearly in a transverse direction, to be inserted into that part of the radius which is opposite to its origin, its inner fibres adhering to the interosseous ligament. This muscle assists in the pronation of the

hand, by turning the radius inwards.

PRONATOR RADII TERES: Pronator teres, of Albinus and Douglas; Pronator teres, sive obliguus, of Winslow; Epitrochloradial, of Dumas. A small muscle situated at the upper and anterior part of the forearm. It is called teres, to distinguish it from the pronator quadratus. It arises tendinous and fleshy from the anterior and inferior part of the outer condyle from the afterior and inferior part of the outer condyle of the os humeri; and tendinous from the cornonid pro-cess of the ulna, near the insertion of the brachiatis internas. The median nerve passes between these two portions. From these origins the muscle runs obliquely downwards and outwards, and is inserted, tendinous and thesity into the apprairs and convey when of the and fleshy, into the anterior and convex edge of the radius, about the middle of that bone. This muscle, as its name indicates, serves to turn the hand inwards.

PRONERVA'TIO. (From pro, before, and nervus, a string.) A tendon or string, like the end of a musele. PROPAGO. A slip, layer, or cutting of the vine. PROPHYLACTIC. (Prophylacticus; from no.

PROPHYLACTIC. (Prophylacticus; from προ, and ψυλασσω, to defend.) Any means made use of to PROPRIETA'TIS ELIXIE. See Tinctura aloës com-

PROPTO'MA. (From  $\pi\rho\sigma\pi\pi/\omega$ , to fall down.) Procidencia. A relaxation, such as that of the scrotum, of the under lip, of the breasts in females, of the prepuce, or of the ears.

PROPYE'MA. (From woo, before, and muov, pus.) A

premature collection of pus.

PRO'RA. (From πρωρα, the prow of a vessel.) The

PROSARTHRO'SIS. (From προς, to, and αρθροω, to articulate.) The articulation which has manifest motion.

Prospe GMA. (From προσπηγυυμι, to fix near., A fixing of humours in one spot.

nxing of humours in one spot.

PRO'STASIS. (From προιςτριμ, to predominate.) An abundance of morbid humours.

PROSTATE. (Glandula prostata; from προ, before, and ατημι, to stand: because it is situated before the urinary bladder.) Corpus glandulosum; Ademoides. A very large, heart-like, firm gland, situated between the neck of the urinary bladder and the bulbous part of the urethre. It secretes the lacteal fluid, which is emitted into the wrether have a trader. which is emitted into the urethra by ten or twelve ducts, that open near the verumontanum, during coltion. This gland is liable to inflammation and its consequences

Prostate inferior muscle. See Transversis perinei

PROSTRATUS. Prostrate. Applied synonymously with depressus, depressed, to a stem which lies natu-rally remarkably flat, spreading horizontally over the ground; as in Coldenia procumbens, and Coronopus Ruelli swine's cress.

PROTO GALA. (From πρωτος, first, and γαλα, milk.) The first milk after delivery.
PROTO XYDE. See Ozide.
PROTUBERANTIA. L. A protuberance on any

2. An apophysis.

PROXIMATE. (Causa proxima: so called because when the exciting cause begins to have effect it is the proximum, or next thing that happens.) The proximate cause of a disease may be said to be in reality the disease itself. All proximate causes are either diseased actions of simple fibres, or an altered state of

PRUI'NA. (A perurendo, guod fruges peruent.)
The powder-like appearance after the bloom observed

on ripe fruit, especially plums.

PRUNA. (Pruna, .o. f.; a live coal.) The carbun-

cle. See Anthraz.

PRUNE. See Plums.

PRUNE'LLA. (From pruno, a burn; because it heals burns.) 1. The name of a genus of plants in the Linnman system. Class, Didynamia; Order,

Gymnospermia.
2. The pharmacopæial name of the self-heal. See

Prunella vulgaris.

3. The name used by Paracelsus for sore throat, or eynnache.
PRUNELLA VULGARIS. The systematic name of the self-heal. Prunella; Consolida minor; Symphitum minus. Prunella—foliis omnibus orato oblongis, serratis, petiolatis, of Linneus; it is recommended as an adstringent in hæmorrhages and fluxes, as also in gargies against aphthe and inflammation of the fauces.
PRUNUM. (Prunum, i.n.; from prunus.) A plum or prune. See Plums.
Prunelloe. See Plums.

or prine. See Plum.
Prunelloe. See Plum.
Prunum gallicum. See Prunus domestica.
Prunum sylvestre. See Prunus spinosa.
PRU'NUS. (Prunus, i. f.) 1. A plum.
2. The name of a genus of plants in the Linnman system. Class, Icosandria; Order, Monogynia.
Prunus armmalal. Apricots, which are the fruit of this plant, are, when ripe, easily digested, and are considered as a pleasant and nutritious delicacy.
Prunus armm. The systematic name of the black cherty-tree. Prunus—umbellis sessilibus, folcis oratoluncedatis, subtus pubescentibus, conduplicatis, of Linnmans. The flavour of the ripe fruit is esteemed by many, and if not taken in too large quantities, they are extremely salutary. A gum exudes from the tree, whose properties are similar to those of gum-arabic.
Prunus cerasus. The systematic name of the red cherry-tree. Prunus—umbellis subpeduncularis,

PRUNUS CREASUS. The systematic name of the red cherry-tree. Prunus—umbellis subpeduncularis, foliis orato-lanceolatis, glabris conduplicatis, of Linneaus. The fruit of this tree, Cerasa rubra, anglica, sativa, possess a pleasant, acidulated, sweet flavour, and are proper in fevers, scurvy, and bilious obstructions. Red cherries are mostly eaten as a luxury, and are very wholesome, except to those whose bowels are remarkably irritable.

PRINTS DOMESTICA. The systematic name of the plum or damson-tree. Prunus pedunculis subsolitariis, foliis lanceolato ovatis convolutis, ramis muticis; gemma florifera aphylla, of Linnaus. Prune are considered as emollient, cooling, and laxative, espe

cially the French prunes, which are directed in the

decoction of senna, and other purgatives; and the pulp is ordered in the electuarium e senna. is only a variety, which, when perfectly ripe, affords a wholesome article for pies, tarts, &c. gently opening the body: but when damsons are not perfectly mature, they credible collects units. they produce colicky pains, diarrhea, and convulsions in children. See Plums.

in children. See Plums.

PRUNUS LATEC-CERASUS. The systematic name of the poison laurel. Lauro-cerusus. Common or chery laurel. Prunus—fortibus raccomessis folities semperoir-centibus dorso biglandulosis, of Linneus. The leaves of the lauro-cerasus have a bitter styptic taste, accompanied with a flavour resembling that of bitter-almonds, excellent senses of the recommendation. pamed with a layour resembling that of bitter-almonds, or other kernels of the drupaceous fruits: the flowers also manifest a similar flavour. The powdered leaves, applied to the nostrils, excite sneezing, though not so strongly as tobacco. The kernel-like flavour which strongly as tobacco. The kernel-like flavour which these leaves impart being generally esteemed grateful, has sometimes caused them to be employed for culinary purposes, and especially in custards, puddings, blancmange, &c.; and as the proportion of this sapid matter of the leaf to the quantity of the milk is commonly inconsiderable, bad effects have seldom ensued. But, as the poisonous quality of this laurel is now indubita-bly proved and known to be the prussic acid which can be obtained in a separate form (See *Prussic* acid), the public ought to be cautioned against its internal use.

The following communication to the Royal Society, by Dr. Madden, of Dublin, contains the first and principal proofs of the deleterious effects of this vegetable upon mankind:-" A very extraordinary accident that fell out here some months ago, has discovered to us a most dangerous poison, which was never before known to be so, though it has been in frequent use among us. to be so, though it has been in frequent use among us. The thing I mean is a simple water, distilled from the leaves of the lauro-cerasus; the water is at first milky, but the oil which comes over being, in a good measure, separated from the philegm, by passing it through a flaunel bag, it becomes as clear as common water. It has the smell of bitter almonds, or peach kernel, and has been for many years in frequent use among our has been for many years in frequent use among our housewives and cooks, to give that agreeable flavour to their creams and puddings. It has also been much in use among our drinkers of drams; and the proportion they generally use it in has been one part of laurel-water to four of brandy. Nor has this practice, however frequent, ever been attended with any apparent ill consequences, till some time in the month of Sep-tember, 1728, when it happened that one Martha Boyse, tember, 1728, when it happened that one Martha Boyse, a servant, who lived with a person who sold great quantities of this water, got a bottle of it from her nistress, and gave it to her mother. Ann Boyse made a present of it to Frances Eaton, her sister, who was a shopkeeper in town, and who, she thought, might oblige her customers with it. Accordingly, in a few days, she gave about two ounces to a woman called Mary Whaley, who drauk about two-thirds of what was filled out, and went away. Frances Eaton drauk the rest. In a quarter of an hour after Mary Whaley had drunk the water, (as I am informed.) she comhad drunk the water, (as I am informed,) she com plained of a violent disorder in her stomach, soon after lost her speech, and died in about an hour, without any vomiting or purging, or any convulsion. The shop-keeper, F. Eaton, sent word to her sister, Ann Boyse, of what had happened, who came to her upon the message, and affirmed that it was not possible the cordial (as she called it) could have occasioned the death of the woman; and, to convince her of it, she filled out about three ounces and drank it. She continued talking with F. Eaton about two minutes longer, and was so earnest to persuade her of the liquor's being inoffensive, that she drank about two spoonfuls more but was hardly well seated in her chair when she died without the least groan, or convulsion. Frances Eaton, who, as before observed, had drank somewhat Eaton, who, as before observed, had drank somewhat more than a spoonful, found in disorder in her stomach, or elsewhere; but to prevent any ill consequences, she took a vomit immediately, and has been well ever since."—Dr. Madden mentions another case, of a gentleman at Kilkenny, who mistook a bottle of laurel-water for a bottle of ptisan. What quantity he drank is uncertain, but he died in a few minutes, complaining of a violent disorder in the stomach. In addition to this, we may refer to the unfortunate case of Sir Theodosius Boughton, whose death, in 1780, an English jury declared to be occasioned by this poison 210

In this case, the active principle of the lauro-cerasus In this case, the active principle of the lattro-centrated was concentrated by repeated distillations, and given to the quantity of one ounce; the suddenly fatal effects of which must be still in the recollection of the public. To brute animals this poison is almost instantaneously mortal, as amply appears by the experiments of Madden, Mortimer, Nicholls, Fontana, Langrish, Vater, and others. The experiments conducted by these genthemen, show that the laurel-water is destructive to animal life, not only when taken into the stomach, but ammat the, not only when taken into the stomach, but also on being mjected into the intestines, or applied externally to different organs of the body. It is remarked, by Abbé Pontana, that this poison, even "when applied in a very small quantity to the eyes, or to the inner part of the mouth, without touching the ospophagus, or being carried into the stomach, is capable of killing an animal in a few minutes: while, applied in a much greater quantity to wounds, it has so little activity, that the weakest animals, such as pigeons, resist its action."

The poisonous quality of the species of laurel is the The poisonous quality of the species of laurel is the prussic acid; and if we judge from its sensible qualities, an analogous principle seems to pervade many other vegetable substances, especially the kernels of drupaceous fruits; and in various species of the amygdalus, this sapid principle extends to the flowers and leaves. It is of importance to notice, that this is much less converted in its estimated by the property of the sense of the contraction of the sense of the contraction less powerful in its action upon human subjects than upon dogs, rabbits, pigeous, and reptiles. To poison man, the essential oil of the lauro-cerasus must be separated by distillation, as in the spirituous or common. laurel-water; and unless this is strongly imbued with the oil, or given in a large dose, it proves innocent. Dr. Cullen observes, that the sedative power of lauro-cerasus, acts upon the nervous system in a dif-ferent manner from opium and other narcotic substances, whose primary action is upon the animal func-tions; for the lauro-cerasus does not occasion sleep, nor does it produce local inflammation, but seems to act directly upon the vital powers. Abbé Fontana supposes that this poison destroys animal life, by exerting its effects upon the blood; but the experiments and observations from which he draws this opinion are evidently inconclusive. It may also be remarked, that many of the Abbé's experiments contradict each that many of the Abbe's experiments continuite call other. Thus, it appears from the citation given above, that the poison of this vegetable, when applied to wounds, does not prove fatal; but future experiments led the Abbé to assert, that the oil of the lauro cerasus, whether given internally, or applied to the wounds of animals, is one of the most terrible and deadly poisons known. Though this vegetable seems to have escaped the notice of Stoerck, yet it is not without advocates for its medical use. Linnaus informs us, that in Switzerland it is commonly and successfully used in pulmonary complaints. Langrish mentions its efficacy in agues; and as Bergius found bitter almonds to have in agues; and as Bergius found futer almonds to have this effect, we may, by analogy, conclude that this power of the lauro-cerasus is well established. Bayines found that it possessed a remarkable power of diluting the blood, and from experience, recommended it in all cases of disease supposed to proceed from too dense a state of that fluid; adducing particular instances of its efficacy in rheumatisms, asthmas, and scirrhous affections. Nor does this author seem to have been much afraid of the deleterious quality of lauro-regards, as he directs a round of its leaves to be lauro-cerasus, as he directs a pound of its leaves to be

lauto-cerasus, as ne others a point or the serves to be macerated in a pint of water, of which he gives from thirty to sixty drops three or four times a-day.

Prunus Padus. The systematic name of the wild cluster, or bird cherry-tree. Padus. The bark and berries of this shrub are used medicinally. The former, bernes of this since are used meaningly. The former, when taken from the tree, has a fragrant smell, and a bitter, subastringent taste, somewhat similar to that of bitter almonds. Made into a decoction, it cures intermittents, and it has been recommended in the cure of several forms of syphilis. The latter are said to cure

the dysentery.

PRUNUS SPINOSA. The systematic name of the sloe tree. Prunus sylvestris; Prunus—pedunculis solita tree. Francis sycressers, Francis penancian critical ritis, foliais lunccolatis, glabris, rames spinosis, of Lunneus. It is sometimes employed in gargles, to tunnelactions of the tonsils and uvula, and from its adstringent taste was formerly much used in hæmor-

PRURI'GO. (From prurio, to itch.) Pruritus; Scabies; Psora; Parta; Libido; Pavor. The pru-

rigo is a genus of disease in the order Papulous cruptions of Dr. Willan's cautaneous diseases. arises from different causes, or at different periods of life, and exhibits some varieties in its form, he describes

iffe, and exhibits some varieties in its form, he describes it under the titles of prurigo mitis, prurigo formicans, and prurigo senilis. In these, the whole surface of the skin is usually affected; but there are likewise many cases of local prurigo, which will be afterward noticed according to their respective situations.

1. The Prurigo mitis originates without any previous indisposition, generally in spring, or the beginning of summer. It is characterized by soft and smooth elevations of the cuticle, somewhat larger than the papulae of the lichen, from which they also differ by retaining the usual colour of the skin; for they seldom appear red, or much inflamed, except from violent friction. They are not, as in the other case, accompanied with tingling, but with a sense of itching almost incessant. This is, however, fet more particularly on undressing, and often prevent rest for some hours after getting into a bed. When the tops of the papulae are removed by rubbing or scratching, a clear fluid oozes out from hem, and gradually concretes into thin black scabs.

This species of prurigo mostly affects young persons; and its cause may, I think, says Dr. Willan, in general be referred to sordes collected on the skin, progeneral be reterred to sordes collected on the skin, pro-ducing some degree of irritation, and also peventing the free discharge of the cutaneous exhalation; the bad consequences of which must necessarily by felt at that season of the year when perspiration is the most copious. Those who have originally a delicate or irritable skin, must likewise, in the same circumstances, he has necest authous?

be the greatest sufferers.

The eruption extends to the arms, breast, back, and The eruption extends to the arms, breast, back, and thights, and often continues during two or three months of the summer, if not relieved by proper treatment. When persons affected with it neglect washing the skin, or are uncleanly in their apparel, the eruption grows more inveterate, and at length, changing its form, often terminates in the irch. Pustules arise among the papules, some filled with lymph, others with pus. The acarus scabic begins to breed in the furrows of the cuticle, and the disorder becomes contagious.

9. The Pursuitae Carriagus is a punch more obstitute.

of the cuttele, and the disorder becomes contagious.

2. The Prurigo formicans is a much more obstinate and troublesome disease than the foregoing. It usually affects persons of adult age, commencing at all seasons of the year indifferently; and its duration is from four months to two or three years, with occasional short intermissions. The papule are sometimes larger, sometimes more obscure, than in the preceding decedes because the description of the preceding decedes because the description of the preceding decedes because the decedes and the decede larger, sometimes more obscure, than in the preceding species; but are, under every form, attended with an incessant, almost intolerable itching. They are diffused over the whole body, except the face, feet, and palms of the hands; they appear, however, in the greatest number on those parts which, from the mode of dress, are subjected to tight ligatures; as about the

neck, loins, and thighs.

The itching is complicated with other sensations, which are variously described by patients. They sometines feel as if small insects were creeping on the skin; sometimes as if stung all over by ants; sometimes as if stung all over by ants; sometimes as if stung all over by ants; sometimes as if hot needles were piercing the skin in divers places. On standing before a fire, or undressing, and more particularly on getting into bed, these sensations become most violent, and usually preclude all rest during the greatest part of the night. The prunigo formicans is by most practitioners deemed contagious, and confounded with the itch. In endeavouring to ascertain the justness of this opinion, Dr. Willan has been led to make the following remarks: 1. The cruption is, for the most part; connected with internal disorder, and arises when no source of infection can be traced. 2. Persons affected may have constant intercourse with several others, and yet never communicate the disease to any of them. 3. Several persons of one family may have the prunigo formicans about the same The itching is complicated with other sensations. family may have the prurigo formicans about the same time; but he thinks this should be referred rather to a common predisposition than to contagion, having observed that individuals of a family are often so affected at certain seasons of the year, even when they reside at a distance from each other.

Although the prurigo formicans is never, like the former species, converted into the itch, yet it does occasionally terminate in a pustular disease, not con-

3. Prurioa senilis.

much in its symptoms and external appearances from the prurigo formicans; but has been thought by medical writers to merit a distinct consideration on account of writers to merit a distinct consideration on account of its peculiar inveteracy. The prurigo is perhaps aggravated, or becomes more permanent in old age from the dry, condensed state of the skin and cuticle which often takes place at that period. Those who are affected with it in a high degree have little more confort to expect during life, being incessantly tormented with a violent and universal itching. The state of the

a violent and universal iteling. The state of the skin in the prurigo senilis, is favourable to the produc-tion of an insect, the pediculus humanus, more especially to the variety of it usually termed body-lice. These insects, it is well known, are bred abundantly among the inhabitants of sordid dwellings, of jails, work-houses, &c. and in such situations prey upon persons of all ages indiscriminately. But in the prurigo smills they arise, aptivilhistanding every agentian personal an age and the financiery. Surin the pruring sensitis they arise, notwithstanding every attention to cleanliness or regimen, and multiply so rapidly that the patient endures extreme distress, from their perpetual irritation. The nits or eggs are deposited on the small irritation. The nits or eggs are deposited on the small hairs of the skin, and the pediculi are only found on the skin, or on the linen, not under the cuticle, as some authors have represented. In connexion with the foregoing series of complaints, Dr. Willan mentions some pruriginous affections which are merely local. He confines his observations to the most troublesome of these, seated in the podex, prapultium, urelirra, pubes, scrotum, and pudendum muliebre. Itching of the nostriks, cyclids, inps, or of the external ear, being generally symptomatic of other diseases, do not require a particular consideration.

generally symptomatic of other diseases, do not require a particular consideration.

1. Prurigo podicis. Ascarides in the rectum excite a frequent fiching and irritation about the sphincter and, which ceases when the cause is removed by proper medicines. A similar complaint often arises, independently of worms, homorrhoidal tumours, or other obvious causes, which is mostly found to affect persons engaged in sedentary occupations; and may be referred to a morbid state of secretion in the parts, founded, perhaps, on a diminution of constitutional vigour. The itching is not always accompanied with an appearance of papulse or tubercles; it is little troublesome during the day-time, but returns every night soon after getting into bed, and precludes rest for several hours. The complaint continues in this form during three or four months, and has then an intermission, till it is profour months, and has then an intermission, till it is pro-The companin continues in this form during three or four months, and has then an intermission, till it is produced again by hot weather, fatigue, watching, or some irregularity in diet. The same disease occurs at the decline of life, under a variety of circumstances.

Women, after the cessation of the catamenia, are liable to be affected with this species of pruigo, more especially in summer or autumn. The skin between

especially in summer or automit. The skin between the nates is rough and papulated, sometimes scally, and a little humour is discharged by violent friction. Along with this complaint, there is often an eruption of itching papulae on the neck, breast, and back; a swelling and inflammation of one or both ears, and a swelling and inflammation of one or both ears, and a significant of the complete of the second of the complete of the second of the se discharge of matter from behind them, and from the external meatus auditorius. The prurigo podicis sometimes occurs as a symptom of the lues venerea.

sometimes occurs as a symptom or the mes venerea.

2. The prurygo praguiti is owing to an altered state
of secretion on the glans penis, and inner surface of
the praguitum. During the heat of summer there is
also, in some persons, an unusual discharge of mucus, which becomes acrimonious, and produces a trouble-some itching, and often an excoriation of these parts. Washing of them with water, or soap and water, em-Washing of them with water, or soap and water, employed from time to time, relieves the complaint, and should indeed be practised as an ordinary point of cleanliness, where no inconvenience is immediately felt. If the fluid be secreted in too large a quantity, that excess may be restrained, by washes made with the liquor plannin subnectatis, or by applying the un

guentum plumbi superacetatis.
3. Prarigo urethralis. A very troublesome liching sometimes takes place at the extremity of the urethral in females, without any manifest cause. It occurs as well in young women as in those who are of an advanced age. On examination, no stricture or tuniour has been found along the course of the urethra. Probably, however, the itching may be occasioned by a morbid state of the neck of the bladder, being in some instances connected with pain and difficulty of making water

An itching at the extremity of the urethra in men is

This affection does not differ produced by calculi, and by some diseases of the blad-

der. In cases of stricture an itching is also felt, but near the place where the stricture is situated. Another cause of it is small broken hairs, which are sometimes drawn in from the pubes, between the preputium and glans, and which afterward becoming fixed in the entrance of the urethra, occasion an itching, or slight stinging, particularly on motion. J. Pearson, surgeon of the Lock Hospital, has seen five cases of this kind, and gave immediate relief by extracting the

small hair from the urethra.

small hair from the urethra.

4. Practigo pules. Itching papule often arise on the pubes, and become extremely sore if their tops are removed by scratching. They are occasioned sometimes by neglect of cleanliness, but more commonly by a species of pediculus, which perforates the cuticle, and thus derives its nonrishment, remaining fixed in the same situation. These insects are termed by Linnaus, for medical implies they do not, however, after the same situation. These insects are termed by Linnæus, &c. pediculi pubis; they do not, however, affect the pubes only, but often adhere to the eyebrows, eyelids, and axillæ. They are often found, also, on the breast, and axillæ. They are often found, also, on the breast, abdomen, thighs, and legs, in persons of the sanguing temperament, who have those parts covered with strong hairs. It is remarkable that they seldom or never ix upon the hairy sculp. The great irritation produced by them on the skin, solicits constantly scratching, by which they are torn from their attachments: and painful tubercles arise at the places where they had adhered. When the pedicoli are diffused over the greater part of the surface of the body, the ration's linear offer amongs as if excitable with them. patient's linen often appears as if sprinkled with drops of blood

5. Prurigo scroti. The scrotum is affected with a troublesome and constant itching from ascarides within the rectum, from friction by violent exercise in hot weather, and very usually from the pediculi pubis. Another and more important form of the complaint ap-Another and more important form of the complaint appears in old men, sometimes connected with the prurigo podicis, and referrible to a morbid state of the skin, or superficial gland of the part. The scrotum, in this case, assumes a brown colour, often also becoming thick, scaly, and wrinkled. The itching extends to the skin covering the pents, more especially along the course of the urethra; and has little respite, either by

day or night.

6. The Prurigo pudendi muliebris, is somewhat analogous to the prurigo scroti in men. It is often a symptomatic complaint in the lichen and lepra; it like-wise originates from ascarides irritating the rectum, and is in some cases connected with a discharge of the

fluor albus.

A similar affection arises in consequence of a change of state in the genital organs at the time of puberty, attended with a series of most distressing sensa-Dr. Willan confines his attention to one case of the disorder, which may be considered as idiopathic, and which usually affects women soon after the cessa-tion of the catamenia. It chiefly occurs in those who are of the phlegmatic temperament, and inclined to corpulency. Its seat is the labia pudendi, and entrance to the vagina. It is often accompanied with an apto the vagina. It is often accompanied with an ap-pearance of tension or fulness of those parts, and sometimes with inflamed itching papulæ on the labia and mons veneris. The distress arising from a strong and almost perpetual itching in the above situation, may be easily imagined. In order to allay it in some degree, the sufferers have frequent recourse to friction, and to cooling applications; whence they are necessitated to forego the enjoyment of society. An excite ment of venereal sensations also takes place from the constant direction of the mind to the paris affected, as well as from the means employed to procure alleviation. The complicated distress thus arising, renders existence almost insupportable, and often produces a

state of mind bordering on frenzy.

Deep ulcerations of the parts seldom take place in
the prurigo pudendi: but the appearance of aphthæ on the labia and nymphæ, is by no means unusual. From intercourse with females under these circumstances, men are liable to be affected with aphthous ulcerations on the glans, and inside of the preputium, which prove troublesome for a length of time, and often ex-

cite an alarm, being mistaken for chancres. Women, after the fourth month of their pregnancy

women, after the fourth month of their pregnancy, often suffer greatly from the prurigo pudendi, attended with aphtha. These, in a few cases, have been succeeded by extensive ulcerations, which destroyed the nymplac, and produced a fatal hectic: such instances 212

In cases of stricture an itching is also felt, but the place where the stricture is situated. An energy of the place where the stricture is situated. An energy of the stricture is situated. usually disappear soon after delivery, whether at the full time, or by a miscarriage.

Prussian blue. See Blue, Prussian. Prussian alkali. See Alkali, pidograficated. Prussian blue. See Blue, Prussian. Prussian blue. See Blue, Prussian.

PRUSSIATE. A salt formed by the union of the prussic and, or colouring matter of Prussian blue, with

prussic acid, or colouring matter of russian once, with a salinable basis: thus, prussiale of potassa, &cc.
PRUSSIC ACID. Acidum prussicum. Acidum hydrocyanicane. Hydrocyanic acid. "The combination of this acid with iron was long known, and used as a pignent by the mane of Prussian blue, before its nature was enderstood. Scheele's method of obtaining it. is this :- Mix four ounces of Prussian blue with two of red oxide of mercury prepared by nitric acid, and boil them in twelve ounces by weight of water, till the whole becomes colourless; filter the liquor, and add to whole occurres containess; much the action, and and to it one ounce of clean iron filings, and six or seven drachins of sulphuric acid. Draw off by distillation about a fourth of the liquor, which will be prussic acid; though, as it is liable to be contaminated with a portion of sulphuric, to render it pure, it may be rectified by redistilling it from carbonate of lime.

This prussic acid has a strong smell of peach-blos-soms, or bitter almonds; its taste is at first sweetish, then acrid, hot, and virulent, and excites coughing; it has a strong tendency to assume the form of gas; it has been decomposed in a high temperature, and by the contact of light, into carbonic acid, ammonia, and carburetted hydrogen. It does not completely neutralize alkalies, and is displaced even by the carbonic acid; it has no action upon metals, but unites with their oxides, and forms salts for the most part insoluble; it likewise unites into triple salts with these oxides and arkalies; the oxygenated muriatic acid decomposes it.

The peculiar smell of the prussic acid could scarcely fail to suggest its affinity with the deleterious principle that rises in the distillation of the leaves of the laurocerasus, bitter kernels of fruits, and some other vegetable productions; and Schrader, of Berlin, has assertained the fact, that these vegetable substances do continue as a series as a seri taimed the fact, that these vegetable substances do con-tain a principle capable of forming a blue precipitate with iron; and that with fine they afford a test of the presence of iron equal to the prussiate of that earth. Dr. Bucholz, of Weimar, and Roioti, of Magdeburg, confirm this fact. The prussic acid appears to come over in the distilled oil.

Prussic acid and its combinations have been lately investigated by Gay Lussac and Vauquelin in France,

and Porrett in England.

To a quantity of powdered Prussian blue diffused in boiling water, let red oxide of mercury be added in successive portions till the blue colour is destroyed. Filter the liquid, and concentrate by evaporation till a pellicle appears. On cooling, crystals of prussiate, or pellicle appears. On cooling, crystals of prussiate, or cyanide of mercury, will be formed. Dry these, and put them into a tubulated glass retort, to the beak of which is adapted a horizontal tube about two feet long, and fully half an inch wide at its middle part. The first third-part of the tube next the retort is filled with small pieces of white marble, the two other thirds with fused muriate of lime. To the end of this tube is adapted a small receiver, which should be artificially refrigerated. Pour on the crystals muriatic acid, in rather less quantity than is sufficient to saturate the oxide of mercury which formed them. Apply a very gentle heat to the retort. Prussic acid, named hydrogenine near to the retort. Prussic acid, named pyaro-cyanic by Gay Lussac, will be evolved in vapour, and will condense in the tube. Whatever muriatic acid may pass over with it, will be abstracted by the mar-ble, while the water will be absorbed by the mu-riate of line. By means of moderate heat applied to the tube, the prussic acid may be made to pass successively along; and after being left some time in contact with the muriate of lime, it may be finally driven into the receiver. As the carbonic acid evolved from mar-ble by the muriatic is apt to carry off some of the prus-sic acid, care should be taken to conduct the heat so as to prevent the distillation of this mineral acid.

Prussic acid thus obtained has the following properties:-It is a colouriess liquid, possessing a strong odour; and the exhalation, if incautiously snuffed up the nostrils, may produce sickness or fainting. Its taste is cooling at first, then hot, asthenic in a light

degree, and a true poison.

products, is distinguished by the great quantity of nitrogen it contains, by its small quantity of hydrogen,

and especially by the absence of oxygen.

When this acid is kept in well-closed vessels, even though no air be present, it is sometimes decomposed in less than an hour. It has been occasionally kept 15 days without alteration; but it is seldom that it can be kept longer, without exhibiting signs of decomposition. It begins by assuming a reddish-brown colour, which becomes deeper and deeper; and it gradually deposites becomes deeper and deeper; and it gradually deposites a considerable carbonaceous matter, which gives a deep colour to both water and acids, and emits a strong smell of anhonia. If the bottle containing the prussic acid be not hermetically scaled, nothing remains but a dry charry mass, which gives no colour to water. Thus a prossint of ammonia is formed at the expense of a part of the acid, and an azoturet of carbon. When potassium is heated in prussic acid vapour mixed with hydrogen or nitrogen, there is absorption without in-flammation, and the metal is converted into a gray spongy substance, which melts, and assumes a yellow

Supposing the quantity of potassium employed capa-ble of disengaging from water a volume of hydrogen equal to 50 parts, we find after the action of the po-

1. That the gaseous mixture has experienced a dimi-

nution of volume amounting to 50 parts.

2. On treating this mixture with potassa and analyzing the residue by oxygen, that 50 parts of hydrogen have been produced.

3. And consequently that the potassium has absorbed 100 parts of prussic vapour; for there is a diminution of 50 parts which would obviously have been twice as great had not 50 parts of hydrogen been disengaged. The yellow matter is prussiate of potassa; properly a prusside of potassium, analogous in its formation to the chloride and hodide, when muriatic and hydriodic gases

chloride and lodine, when muriatic and hydrodic gases are made to act on potassium.

The base of prussic and thus divested of its acidifying hydrogen, should be called, agreeably to the same chemical analogy, prussine. Gay Lussac styles it cyanogen, because it is the principle which generates blue; or, literally, the blue-maker.

Like muriatic and hydriodic acids also, it contains

half its volume of hydrogen. The only difference is, that the former have in the present state of our knowledge simple radicals, chlorine and iodine, while that of the latter is a compound of one volume vapour of carbon, and half a volume of nitrogen. This radical

forms true prussides with metals.

If the term cyanogen be objectionable as allying it to It the term cyanogen we objection and assuming it to oxygen, instead of chiorine and iodine, the term hydrocyanic acid must be equally so, as implying that it contains water. Thus we say, hydromitric, hydromutriatic, and hydrophosphoric, to denote the aqueous compounds of the nitric, muriatic, and phosphoric acids. As the singular merit of Gay Lussac, however, has commanded a very general compliance among chemists with his nomenclature, we shall use the terms prussic acid and hydrocyanic indifferently, as has long been

done with the words nitrogen and azote.

The prusside or cyanide of potassium gives a very attaine solution in water, even when a great excess of hydrocyanic vapour has been present at its formation. In this respect it differs from the chlorides and iodides of that metal, which are perfectly neutral.

Barytes, potassa, and soda combine with prussine, forming true prussides of these alkaline oxides; anaforming true prussides of these alkaline oxides; analogous to what are vulgarly called oxymuriates of lime, potassa, and soda. The red oxide of mercury acts so powerfully on prussic acid vapour, when assisted by heat, that the compound which ought to result is destroyed by the heat disengaged. The same thing happens when a little of the concentrated acid is poured upon the oxide. A great elevation of temperature takes place, which would occasion a dangerous explosion if the experiment ware made most consider. rature takes piace, which would occasion a dangerous explosion if the experiment were made upon considerable quantities. When the acid is diluted, the oxide dissolves rapidly, with a considerable heat, and without the diseignagement of any gas. The substance formerly called prussiate of mercury is generated, which when moist may, like the muriates, still retain that name; but when dry is a prusside of the netal.

metal.
When the cold oxide is placed in contact with the

This acid, when compared with the other animal, acid, dilated into a gaseous form by hydrogen, its vapour is absorbed in a few minutes. The hydrogen is unchanged. When a considerable quantity of vapour unchanged. When a considerable quantity of vapour has thus been absorbed, the oxide adheres to the side of the tube, and on applying heat, water is obtained. The hydrogen of the acid has here united with the oxygen of the oxide to form the water, while their two radicals combine. Red oxide of mercury becomes an

excellent reagent for detecting prussic acid.

By exposing the dry prusside of mercury to heat
in a retort, the radical cyanogen or prussine is ob-

tained.

From the experiments of Magendie it appears that the pure hydrocyanic acid is the most violent of all poisons. When a rod dipped into it is brought in contact with the tongue of an animal, death ensure the force tact with the tongue of an animal, death ensure the rod can be withdrawn. If a bird be head of ment over the mouth of a phial containing this acad, it dies. In the Annales de Chimie for 1814, we find this notice:—M. B., Professor of Chemistry, left by accident on a table a flask containing alkohol impregnated with prussic acid; the servant, enticed by the agreeable flavour of the liquid, swallowed a small glass of it. In vour of the liquid, swamowed a small glass of it. In two minutes she dropped down dead, as if struck with apoplexy. The body was not examined. "Scharinger, a professor at Vienna," says Orfila, "prepared, six or seven months ago, a pure and concen-

trated prussic acid; he spread a certain quantity of it on his naked arm, and died a little time thereafter."

Dr. Magendie has, however, ventured to introduce its employment into medicine. He found it beneficial against phthisis and chronic catarrhs. His formulæ is the following :-

Mix one part of the pure prussic or hydrocyanic acid of Gay Lussac with 8½ of water by weight. To this mixture he gives the name of medicinal prussic

acid.

Of this he takes 1 gros. or 59 grs. Troy.
Distilled water, 1 lb. or 7566 grs.
Pure sugar, 11 oz. or 708 grs.
And mixing the ingredients well together, he administers a table-spoonful every morning and evening. A well-written report of the use of the prussic acid in certain diseases, by Dr. Magendie, was communicated by Dr. Granville to Mr. Brande, and is inserted in the fourth volume of the Journal of Science.

For the following ingenious and accurate process for preparing prussic acid for medicinal uses, 1 am indebted to Dr. Niumo of Glasgow.

ed to Dr. Nimmo of Glasgow.

"Take of the ferroprussiate of potassa 100 grains, of the protosulphate of iron 84½ grains, dissolve them separately in four ounces of water, and mingle them. After allowing the precipitate of the protoprussiate of iron to settle, pour off the clear part, and add water to wash the sulphate of potassa completely away. To the protoprussiate of iron, mixed with four ounces of pure water, add 135 grains of the peroxide of mercury, and boil the whole till the oxide is dissolved. With the above proportions of peroxide of mercury, the protoprussiate of iron is completely decomposed. The vessel being kept warm, the oxide of iron will fall to the bottom: the clear part may be poured off to be filvessel being kept warm, the oxide of iron will fall to the bottom; the clear part may be poured off to be fil-tered through paper, taking care to keep the funnel covered, so that crystals may not form in it by refri-geration. The residuum may be treated with more water, and thrown upon the filter, upon which warm water ought to be poured, until all the soluble part is washed away. By evaporation, and subsequent rest in a cool place, 145 grains of crystals of the Pueside, or cyanide of mercury will be procured in quadrangu-lar prisms.

lar prisms.

"The following process for eliminating the hydrocy

"Take of the cyanide of "The following process for climin-ong the hydrocy-anic acid I believe to be new: —Take of the cy anide of mercury in fine powder one surree, diffuse it in two onnees of water, and to it is slow dequees, add a solu-tion of hydrosulphuret of barytes, made by decompos-ing sulphate of barytes with charcoat in the common way. Of the sulpisred of barytes take an ottnee, boil it with six onnees of water, and filter it as hot as possi-ble. Add this m small portions to the cyanide of mer-cury, agita sig the whole very well, and allowing suf-ficient interfort the cyanide to dissolve, while the decury, agilasing the whole very wen, and anowing sur-ficient time for the cyanide to dissolve, while the de-composition is going on between it and the hydrosul-phurst, as it is added. Continue the addition of the hyarosulphuret so long as a dark precipitate of sulphu-ret of mercury falls down, and even allowing a small excess. Let the whole be thrown upon a filter, and

kept warm till the fluid drops through; add more water to wash the sulphuret of inercury, until eight ounces of fluid have passed through the filter, and it has become tasteless. To this fluid, which contains the prussitate of barytes, with a small excess of hydrosulphuret of barytes, add sulphuric acid, diluted with an equal weight of water, and allowed to become cold, so long as sulphate of barytes falls down. The excess of substancial hydrogen will be reinveed by adding a soil. kept warm till the fluid drops through; add more water ! as suipnate of parytes falls down. The excess of sul-phuretted hydrogen will be removed by adding a suffi-cient portion of carbonate of lead, and agitating very well. The whole may now be put upon a filter, which must be closely covered; the fluid which passes is the hydrocyane acid of what is called the medical stand-ard strength."

Scheele found that prussic acid occasioned precipi-Scheele found that prusses acta occasioned precipitates with only the following three metallic solutions: nitrates of silver and mercury, and carbonate of silver. The first is white, the second black, the third green,

becoming blue.

The hydrocyanates are all alkaline, even when a great excess of acid is employed in their formation, and they are decomposed by the weakest acids."- Ure's

Chem. Dict.
PRUSSINE. Prussic gas. Cyanogen. This is obtained by decomposing the prusside or cyanide of mer-

cury by heat.

When the simple mercurial prusside is exposed to heat in a small glass retort, or tube, shut at one extremity, it soon begins to blacken. It appears to melt like Inity, it soon begins to blacken. It appears to melt like an animal matter, and then the prussine is disengaged in abundance. This gas is pure from the beginning of the process to the end, provided always that the heat be not very high; for if it were not sufficiently intense to melt the glass; a little axote would be evolved. ed. Mercury is volatilized with a considerable quantity of prusside, and there remains a charry matter of the colour of soot, and as light as lampblack. The prusside of silver gives out likewise prussine when heated; but the mercurial prusside is preferable to every other.

Prussine or cyanogen is a permanently elastic fluid. I dissue or cyanogen is a permanently elastic fluid. Its smell, which it is impossible to describe, is very strong and penetrating. Its solution in water has a very sharp taste. The gas burns with a bluish flame mixed with purple. Its sp. gr., compared to that of air, is 1.8064.

Prussine is capable of sustaining a pretty high heat, Prussine is capable of sustaining a pretty high heat, without being decomposed. Water, agitated with it for some minutes, at the temperature of 689, absorbed about 4½ times its volume. Pure alkohol absorbs 23 times its volume. Sulphuric ather and oil of turpentine dissolve at least as much as water. Tincture of litmus is reddened by prussine. The carbonic acid proceeds, no doubt, from the decomposition of a small quantity of prussine and water. It deprives the red sulphate of manganese of its colour, a property which prussics acid does not pussess. prussic acid does not possess

Prussic acid does not possess.

Phosphorus, sulphur, and iodine may be sublimed by the heat of a spirit-lamp in prussine, without occarioning any change on it. Its mixture with hydrogen was not altered by the same temperature, or by passing electrical sparks through it. Copper and gold do not combine with it; but iron, when heated almost to

whiteness, decomposes it in part.

whiteless, accomposes it in part.

In the cold, potassium acts but slowly on prussine, because a crust is formed on its surface, which presents an obsacle to the mutual action. On applying the spirit-law, the potassium becomes speedily incandescent; the absorption of the gas begins, the inflamed disc gradually similarishes, and when it disappears entirely which labor the control of the control

disc gradually diminishes, and when it disappears entirely, which takes place in a few seconds, the absorption is likewise at a end.

The compound of phesine and potassium is yellowish. It dissolves in water without effervescence, and the solution is strongly alkarae. Its taste is the same as that of hydrocyanate or simble prussiate of potassa, of which it possesses all the protecties.

When a pure solution of potassa is introduced into this gas, the absorption is rapid. If he alkali he not too concentrated, and he not quite sharpared, it is scarcely tinged of a lemon-yellow colour. But if the prussine he in excess, we obtain a brown solution, apparently carbonaceous. On pouring potassa combined with prussine into a saline solution of a back oxide of iron, and adding an acid, we obtain Prussan blue. kide of iron, and adding an acid, we obtain Prusslan the formixe the brain.

The instant an acid is poured into the solution of plication of hot sand  $\omega$  any part of the body.

Let measurary poor that unless the posterior crura of the brain.

PSAMMI'SMU'S. (From  $\psi a\mu\mu\rho\sigma$ , sand.) An appearance of the posterior crura of the posterior crura of the property of the posterior crura of the po

prussine in potassa, a strong effervesconce of carbonic acid is produced, and at the same time a strong smell of and is produced, and at the same time a strong smell of prussic acid becomes perceptible. Animonia is likewise formed, which may be rendered very sensible to the smell by the addition of quicklime. Since, therefore, we are obliged to add an acid in order to form Pression blue, its formation negations no farther diff. Prussian blue, its formation occasions no farther diffi-

Soda, barytes, and strontites produce the same effect as potassa. We must, therefore, admit that prussine forms particular combinations with the alkalics, which are permanent till some circumstance determines the formation of new products. These combinations are formation of new products. These combinations are true saits, which may be regarded as analogous to those formed by acids. In fact, prussine possesses acid characters. It contains two elements, azote and carbon, the first of which is strongly aciditying, according to Gay Lussac. Prussine reddens the tincture of litnus, and neutralizes the bases. On the other hand, it acts as a simple body when it combines with hydrogen; and it is this double function of a simple and compound body, which renders its nomenclature so embarrassing.

Be this as it may, the compounds of prussine and the alkalies, which may be distinguished by the term prussides, do not separate in water like the alkaline chlorurets (oxymuriates), which produce chlorates and mu

The metallic oxides do not seem capable of producing the same changes on prussine as the alkalies.

Prussine rapidly decomposes the carbonates at a dull

red heat, and prussides of the oxides are obtained. When passed through sulphuret of barytes, it combines without disengaging the sulphur, and renders it very fusible and of a brownish-black colour. When put into water, we obtain a colourless solution, but which gives a deep brown (maroon) colour to muriate of iron. What does not dissolve contains a good deal of sulphate, which is doubtless formed during the preparation of the sulphuret of barytes.

ration of the suphuret of barytes.
On dissolving prussine in the sulphuretted hydrosulphuret of barytes, sulphur is precipitated, which is again dissolved when the liquor is saturated with prussine, and we obtain a solution having a very deep brown maroon colour. This gas does not decompose

Sulphiret of silver, nor of potassa.

Prussine and sulphiretted hydrogen combine slowly. with each other. A yellow substance is obtained in fine needles, which dissolves in water, does not precipitate nitrate of lead, produces no Prussian blue, and is composed of 1 volume prussine (cyanogen), and 12 volumes of sulphuretted hydrogen.

Ainmoniacal gas and prussine begin to act on each other whenever they come in contact; but some hours are requisite to render the effect complete. We per-ceive at first a white thick vapour, which soon disap-pears. The diminution of volume is considerable, and the glass in which the mixture is made becomes opaque, the glass in which the mixture is made occurrently its inside being covered with a solid brown matter. On mixing 90 parts of prussine, and 227 ammonia, they have been a solid property in the proportion of 1 to 1½. This combined nearly in the proportion of 1 to 12. This compound gives a dark orange-brown colour to water, but dissolves only in a very small proportion. The liquid produces no Prussian blue with the salts of

In the first volume of the Journal of Science and the In the first volume of the Journal of Science and the Arts, Sir H. Davy has stated some interesting particulars relative to prussine. By heating prusside of mercury in muriatic acid gas, he obtained pure liquid prussic acid and corrosive sublimate. By heating iodine, sulphur, and phosphorus, in contact with prusside of mercury, compounds of these hodies with prussine or cyanogen may be formed. That of iodine is a very curious body. It is volatile at a very moderate heat; and on cooling collects in flocculi adhering to. heat; and on cooling collects in flocculi, adhering to-gether like oxide of zinc formed by combustion. It has

gether like oxide of zinc formed by combustion. It has a pungent smell, and very acrid taste. PSALLOTDES. (From  $\psi a \lambda \lambda \sigma_{0}$ , a stringed instrument, and  $\epsilon \iota \delta \sigma_{0}$ , a likeness: because it appears as if stringed like a duclimer.) Applied by the ancients to the inner surface of the fornix of the brain. PSALTERIUM. (A harp: because it is marked with lines that give it the appearance of a harp.) Lyra. The medullary body that unites the posterior crura of the formix of the brain.

tion of speech.) Psellotis. Defect of speech. A genus of disease in the Class Locales, and Order Dyscinesiæ, of Cullen.

Nesta, of Cullen.
PSetLio Tits. See Psellismus.
PSEUDA CORUS. (From ψευδης, false, and ακοpor, the accurs plant: because it resembled and was 
substituted for that plant.) See Iris Pseudacorus.
PSEUDO. (Ψευδης, false.) Spurious. This word 
is fixed to the name of several diseases, because they

resemble them, but are not those diseases; as Pseu pneumonia, Pseudo-phrenitis. It is also prefixed to many substances which are only fictitious imitations;

as Pseudamomum, a spurious kind of amonum, &c.
PSEUDOBLE PSIS. (From ψευδης, false, and δλεψες, sight.) Phantasma; Suffusio. Imaginary vision of objects. A genus of disease in the Class Locales, and Order Dysathesia, of Cullen; characterized by depraved sight, creating objects, or representing them different from what they are. Species:—

fferent from what they are. Species:—
1. Pseudoblepsis imaginaria, in which objects are

perceived that are not present.

Pseudoblepsis mutans, in which objects that are present appear somewhat changed. PSEUDOCYESIS. (From ψευδης, false, and κυησις,

pregnancy.) The name of a genus of disease in Good's Nosology. Class, Genetica; Order, Carpotica. False conception. It has two species, viz. Pseudocyesis molaris, and inanis

PSEUDOMELANTHIUM. (From ψευδης, false, and melanthium, the name of a plant.) See Agro-

stemma githago.

PSEUDOPYRETHRUM. (From ψευδης, false, and pyrethrum, the name of a plant: so called, because when the flowers are chewed they impart a warmth somewhat like that of pyrethrum root.) See Achillaa

PSI'DIUM. (Altered by Linnaus from ψιδιας of the ancient Greeks.) The name of a genus of plants in the Linnæan system. Class, Icosandria; Order, Me-

PSIDIUM POMIFERUM. The systematic name of the apple guava. This plant, and the pyriferum, bear fruits, the former like apples, the latter like pears. The apple kind is most cultivated in the Indies, on account apple kind is most cultivated in the Indies apple kind in the Indies apple kind is most cultivated in the Indies apple kind in the Indies app of the pulp having a fine acid flavour, whereas the pear species is sweet, and therefore not so agreeable in warm climates. Of the inner pulp of either, the inhabitants make jellies; and of the outer rind they make tarts, marmalades, &c. The latter they also stew and cat marmalades, &c. The latter they also stew and cat with milk, and prefer them to any other stewed fruits. They have an astringent quality, which exists also in every part of the tree, and abundantly in the leaf-buds, which are occasionally boiled with bariey, and liquorice, as an excellent drink against diarrheas. A simple decoction of the leaves, used as a bath, is said to cure the itch, and most cutaneous eruptions.

CHIETER ITER, and most cutaneous eruptions.
PSIDIUM PYRIFERUM. The systematic name of the pear guava. See Psidium pomiferum.
PSILO'THRA. (From ψιλοω, to depitate: so called because it was used to remove the hair.) The white

PSIMMY THIUM. (From  $\psi_{I\omega}$ , to smooth: so called because of its use as a cosmetic.) Cerusse, or white

PSO'Æ. (Yout, the loins.) Alopeces; Nefrometræ; Neurometeres.

feurometeres. 1. The loins.

2. The name of two pair of muscles in the loins.

PSO'AS. (From \$\psi\_{aat}\$, the loins.) Belonging to the loins.

PSOAS ABSCESS. See Lumbar abscess.

PSOAS MAGNUS. Psoas, seu lumbaris internus, of Winslow. Pre-lumbo-trochantin, of Dumas. This is a long, thick, and very considerable muscle, situated close to the forepart and sides of the lumbar vertebræ. It arises from the bodies of the last vertebræ of the back. and of all the lumbar vertebre laterally, as well as from the anterior surfaces of their transverse processes by distinct tendinous and fleshy slips, that are gradually collected into one mass, which becomes thicker as it descends, till it reaches the last of the lumbar vertebre, where it grows narrower again, and uniting its outer

PSAMMO'DES. (From  $\psi a_{\mu\mu\sigma\rho}$ , sand.) Applied to urine which deposites a sandy sediment. PSELLU'SMU'S. (From  $\psi \epsilon \lambda \lambda \zeta_{\Delta}$ , to have a hesitation of speech.) Pseltotts. Defect of speech. A geliance of the property of the operation of the trochanter minor, of the operations and fleshy into the bone a minor, of the os femoris, and fleshy into the bone a little below that process. Between the tendon of this muscle and the ischium, we find a considerable bursa mucosa. This muscle, at its origin, has some connex-ion with the diaphragm, and likewise with the quadratus lumborum. It is one of the most powerful flexors of the thighs forwards, and may likewise assist in turning it outwards. When the inferior extremity is fixed, it may help to bend the body forwards, and in an recet posture it greatly assists in preserving the equilibrium of the trunk upon the upper part of the thigh. Psoas parvus. Pre-lumbo-public, of Dumas. This muscle, which was first described by Riolanus, is situated.

ated upon the psoas magnus, at the anterior part of the loins. The psoas parvus arises thin and fleshy from the side of the uppermost vertebra of the loins, and sometimes also from the lower edge of the last vertebra of the back, and from the transverse processes of each of these vertebræ: it then extends over part of the psoas magnus, and terminates in a thin, flat tendon, which is inserted into that part of the brim of the pelvis, where the os pubis joins the ilium. From this tendon a great number of libres are sent off, which form From this tendon a great number of libresare sent oil, which form a thin fascia, that covers parts of the psoas magnus and iliacus internus, and gradually loses itself on the fore part of the thigh. In the human body, this muscle is very often wanting; but in a dog, according to Douglas, it is never deficient. Riolanus was of opinion, that it occurs othere in men than in women. Winsiow asoccurs oftener in men than in women. Winslow asserts just the contrary; but the truth seems to be, that it is as often wanting in one sex as in the other. Its use seems to be to assist the psoas magnus in bending the loins forwards; and when we are lying upon our back, it may help to raise the pelvis.

PSOAS SIVE LUMBARIS INTERNUS. See Psoas mag

PSO'RA. Fwpa. Scabies. The itch. A genus of disease in the Class Locales, and Order Dyalyses, of Cullen: appearing first on the wrists, and between the fingers, in small pustules with watery heads. It is con-

tagious. PSORALEA. (From  $\psi\omega\rho\alpha\lambda\omega\sigma_s$ , scabby; because the calyx, and other parts of the pinnt, are more or less besprinkled with glandular dots, giving a scuriy roughness.) The name of a genus of plants. Class, Diadelphia; Order, Decandria. PSORALEA PENTAPHYLLA. The systematic name of the Chexicum contrayerva, Contrayerva nova, which is by many as much esteemed as the Dorstenia. It was introduced into Europe soon after the true plant, from

introduced into Europe soon after the true plant, from

Guiana as well as Mexico.

PSORI'ASIS. (From ψωρα, the itch.) The disease to which Dr. Willan gives this title is characterized by a rough and scaly state of the cuticle, sometimes continuous, sometimes in separate patches, of various sizes, but of an irregular figure, and for the most part accompanied with rhagades or fissures of the skin. From the lepra it may be distinguished, not only by the distribution of the patches, but also by its cessation and recurrence at certain seasons of the year, and by the disorder of the constitution with which it is usually

attended. Dr. Willan gives the following varieties:

1. Psoriasis guttata. This complaint appears in small, distinct, but irregular patches of laminated scales, with little or no infiammation round them. The patches very seldom extend to the size of a six-pence. They have neither an elevated border, nor the pence. They have neither an elevated border, not accoval or circular form by which all the varieties of lepra are distinguished; but their circumference is sometimes angular, and sometimes goes into small serpentine processes. The scale formed upon each or pentine processes. The scale formed upon each or pentine processes. them is thin, and may be easily detached, leaving a red, them is thin, and may be easily detached, leaving a red, shining base. The patches are often distrituted over the greatest part of the body, but more particularly on the back part of the neck, the breasts, arms, loins, thighs, and legs. They appear also upon the face, which rarely happens in legra. In that situation, they are red and more rough than the adjoining cuticle, but are red and hore rough than the adjoining cutter, our not covered with scales. The psoriasis guttata often appears on children in a sudden cruption, attended with a slight disorder of the constitution, and spreads over the body within two or three days. In adults it commences with a few scaly patches on the extremities, proceeds very gradually, and has a longer duration

PSO PSO

tions, but it is an to return again early in the ensuing spring, and continues so to do for several successive years. When the scales have been removed, and the disease is about to go off, the small patches have a chining appearance, and they retain a dark red, intermixed with somewhat of a bluish colour, for many darks or gray weeks holore the distriction. days, or even weeks, before the skin is restored to its usual state. In the venereal disease there is an eruption which very much resembles the psoriasis guttata, the only difference being a slighter degree of scaliness. the only difference being a slighter degree of scaliness, and a different shade of colour in the patches, approaching to a livid red, or very dark rose colour. The patches vary in their extent, from the section of a pea, to the size of a silver penny, but are not exactly circular. They rise at first very little, if at all, above the cuticle. As soon, however, as the scales appear on them, they become sensibly elevated; and sometimes the edge or circumference of the patch is higher than the little scales in its centre. This eruption is usually seen upon the forehead, breast, between the shoulders, or in the inside of the forearms, in the groins, about the inside of the thighs, and upon the skin covering the lower part of the abdomen. The syphilitic psoriasis guttata is attended with, or soon followed by, an ulteration of the throat. It appears about six or eight weeks after a chancre has been healed by an ineffectual course of mercury. A similar appearance takes place course of mercury. A similar appearance takes place at nearly the same period, in some cases where no local symptoms had been noticed. When a venereal sore is in a discharging state, this eruption, or other secondary symptoms, often appear much later than the period above mentioned. They may also be kept back three months, or even longer, by an inefficient application of mercury. If no medicine be employed, the symbilitie form of the psoriasis guttata will proceed during several months, the number of the spots increasing, and their bulk being somewhat enlarged, but without any other

material alteration. 2. The Psoriasis diffusa spreads into large patches irregularly circumscribed, reddish, rough, and chappy, with scales interspersed. It commences, in general, with scales interspersed. It commences, in general, with numerous minute asperities, or elevations of the cuticle, more perceptible by the touch than by sight. Upon these, small distinct scales are soon after formed, adhering by a dark central point, while their edges may be seen white and detached. In the course of two or three weeks all the intervening cuticle becomes rough and chappy, appears red, and raised, and wrinkled, the lines of the skin sinking into deep furrows. The scales which form among them are often slight, and repeatedly exfoliate. Sometimes, without any previous erup-tion of papule, a large portion of the skin becomes dry, harsh, cracked, reddish, and scally, as above described. In other cases, the disorder commences with separate patches of an uncertain form and size, some of them being small, like those in the psoriasis guitata, some much larger. The patches gradually expand till they become confluent, and nearly cover the part or limb affected. Both the psoriasis guttata and diffusa like-wise occur as a sequel of the lichen simplex. This wise occur as a sequel of the licine simplex. This transition takes place more certainly after frequent returns of the lichen. The parts most affected by psoriasis diffusa are the cheeks, chin, upper eyelids, and corners of the eyes, the temples, the external ear, the neck, the fleshy parts of the lower extremities, and the forearm, from the elbow to the back of the hand, along the supinator muscle of the radius. The fingers are sometimes nearly surrounded with a loose scaly investigate, the pails crack and exfoliate superficially. sometimes nearly surrounced with a loose scaly in-crustation; the nails crack and exfoliate superficially. The scaly patches likewise appear, though less fre-quently, on the forehead and scalp, on the shoulders back, and loins, on the abdomen, and instep. This disease occasionally extends to all the parts above mentioned at the same time; but, in general, it affects them successively, leaving one place free, and appearing in others; sometimes again returning to its first situation.

than in children. Its first occurrence is usually in the spring season, after violent pains in the head, stomach, and limbs. During the summer it disappears spontaneously, or may be soon removed by proper applications, but it is apt to return again early in the ensuing pring and continues so to do for search and continues so to do for search and so the disappears should any portion of the disappears strate be forcibly excentated, and continues so to do for search and so the disappears should any portion of the disappears should any portion of the disappears before the spring and continues and cont of unguents, the surface, though raised and uneven, appears smooth and shiming, and the deep furrows of the cutticle are lined by a slight scaliness. Should any portion of the diseased surface be forcibly exconated, there issues out at hin lymph, mixed with some drops of blood, which slightly status and stiffens the linen, but soon concretes into a thin dry scal; this is again succeeded by a white scaliness, gradually increasing, and spreading in various directions. As the complaint declines, the roughness, chaps, scales, &c. disappear, and a new cutcle is formed, at first red, dry, and and a new cuited is formed, at make real, my sind shrivelled, but which, in two or three weeks, acquires the proper texture. The duration of the psoriasis dif-fusa is from one to four months. If, in some constitu-tions, it does not then disappear, but becomes, to a certain degree, permanent, there is, at least, an aggrava-tion or extension of it, about the usual periods of its return. In other cases, the disease, at the vernal re-turns, differs much as to its extent, and also with respect to the violence of the preceding symptoms. eruption is, indeed, often confined to a single scaly patch, red, itching, and chapped, of a moderate size, but irregularly circumscribed. This solitary patch is sometimes situated on the temple, or upper part of the check, frequently on the breast, the calf of the leg, about the wrist, or within and a little below the elbow joint, but especially at the lower part of the thigh, be-hind. It continues in any of these situations several months, without much observable alteration. The months, without much observable alteration. The complaint, denominated with us the bakers' itch, is an complaint, denominated with us the bakers' tich, is an appearance of psoriasis diffusa on the back of the hand, commencing with one or two small, rough, scaly patches, and finally extending from the knuckles to the wrist. The rhagades, or chaps, and fissures of the skin, are numerous about the knuckles and ball of the thumb, and where the back of the hand joins the wrist. They are often highly inflamed, and painful, but have no discharge of fluid from them. The back of the hand is a little raised or tunnefied, and, at an advanced pariod of the disorder, exhibits a reddish, plays surface. is a little raised or tulnenet, and, at period of the disorder, exhibits a reddish, glossy surface, without crusts or numerous scales. However, the without crusts or numerous scales. However, the deep furrows of the cuticle are, for the most part, whitened by a slight scaliness. This complaint is not general among bakers; that it is only aggravated by their business, and affects those who are otherwise discoording to the complete the state of the complete the c disposed to it, may be collected from the following circumstances: 1. It disappears about midsummer, and returns in the cold weather at the beginning of the year; 2. Persons constantly engaged in the business, after having been once affected with the eruption, sometimes enjoy a respite from it for two or three years; 3. When the business is discontinued, the comyears; 3. When the disances is used. The grocers' itch has some affinity with the bakers' itch, or tetter; but, being usually a pustular disease at its commencement, it properly belongs to another genus. Washer-women, probably from the irritation of soap, are liable to be affected with easingly again the gapen of the hands and fected with a similar scaly disease on the hands, and arms, sometimes on the face and neck, which, in particular constitutions, proves very troublesome, and of long duration.

3. The Psoriasis gyrata is distributed in narrow

patches or stripes, variously figured; some of them are nearly longitudinal; some circular, or semicircular, with verniform appendages; some are tortuous, or serpentine; others like earth-worms or leeches: the fur-rows of the cuticle being deeper than usual, make the resemblance more striking, by giving to them an annulated appearance. There is a separation of slight scales from the diseased surface, but no thick incrustations are formed. The uniform disposition of these patters is singular. I have seen a large circular one situated is singular. I have seen a large circuits one surface on each breast above the papilits; and two or three others of a serpentine form, in analogous situations along the sides of the chest. The back is often variegated in like manner, with convoluted tetters, similarly arranged on each side of the spine. They likewise appears in some cases, on the arms and thigh intersect. pear, in some cases, on the arms and thighs, intersecting each other in various directions. A slighter kind The psoriasis diffusa is attended with a sensation of heat, and with a very troublesome itching, especially can hight. It exhibits small, slight, distinct scales, having less disposition than the lepra to form thick crusts. The chaps or fissures of the skin, which usually make a part of this complaint, are very sore and paintup to the crusts. The chaps of fissures of the skin, which usually make a part of this complaint, are very sore and paintup to the crusts. The chaps of fissures of the skin, which usually make a part of this complaint, are very sore and paintup to the crusts. The chaps of fissures of the skin, which usually make a part of this complaint affects delicate young women and heat, and with a very troublesome itching, especially children in small scaly circles or rings, little discolouration to the complaint affects delicate young women and heat, and with a very troublesome itching, especially children in small scaly circles or rings, little discolouration to the cheeks, neck, or upper part of the breast, and are mostly confounded with the herper crusts. The chapter of the properties of the scales in the complaint affects delicate young women and children in small scaly circles or rings, little discolouration to the cheeks, neck, or upper part of the breast, and are mostly confounded with the herper crusts. The chapter of the part and the complaint affects delicate young women and children in small scaly circles or rings, little discolouration that the complaint affects delicate young women and heat of the children in small scaly circles or rings, little discolouration that the complaint affects delicate young women and the children in small scaly circles or rings, little discolouration that the complaint affects delicate young women and the children in small scaly circles or rings, little discolouration that the children in small scaly circles or rings, little discolouration that the children in small scaly circles or rings, little discolouration that the children in small scaly circles or rings, order on the face, scalp, or extremities, while the trunk to the body is chequered with the singular figures above under the same circumstances as the prurigo scrott, described

described.

4. Psortasis palmaria. This very obstinate species of tetter is nearly confined to the palm of the hand. It commences with a small, harsh, or scall patch, which gradually spreads over the whole palm, and sometimes appears in a slight degree on the inside of the fingers and wrist. The surface feels rough from the detached and raised edges of the scaly lamine; its colour often changes to brown or black, as if dirty; yet the most diligent washing produces no favourable effect. The cuticular furrows are deep, and cleft at the bottom longitudinally, in various places, so as to bleed on stretching the fingers. A sensation of heat, pain, and atiffness in the motions of the hand, attends this complaint. It is worse in winter or spring, and occa-sionally disappears in autumn or summer, leaving a soft, dark-red cutilet; but many persons are troubled with it for a series of years, experiencing only very slight remissions. Every return or aggravation of it is bright refusions. Every return or aggravation of its preceded by an increase of heat and dryness, with intolerable tiching. Shoemakers have the psoriasis pamaria locally, from the irritation of the wax they so constantly employ. In braziers, tinnen, silversmiths, &c. the complaint seems to be produced by handling Sc. the complaint seems to be produced by handling cold metals. A long predisposition to it from a weak, languld, hectical state of the constitution, may give effect to different occasional causes. Dr. Willian has observed it in women after lying-in; in some persons it is connected or alternates with arthritic complaints. When the palms of the hands are affected as above stated, a similar appearance often takes place on the soles of the feet; but with the exception of rhagades or fissures, which seem less liable to form there, the feet g usually kept warm and covered. Sometimes, the psoriasis palmaria is attended with a thickness being usually kept warm and covered. of the præputium, with scaliness and painful cracks.

These symptoms at last produce a phinnosis, and render connubial intercourse difficult or impracticable; so great, in some cases, is the obstinacy of them, that so great, in some cases, is the obstinacy of them, that remedies are of no avail, and the patient can only be relieved by circumcision. This affection of the preputium is not exactly similar to any venereal appearance; but rhagades or fissures, and indurated patches within the paim of the hand, take place in syphilis, and somewhat resemble the necessity admires. The venereal what resemble the pooriasis palmaria. The venereal patches are, however, distinct, white, and elevated, having nearly the consistence of a soft corn. From the rhagades there is a slight discharge, very offensive to the smell. The soles of the feet are likewise, in this Case, affected with the patches, not with rhagades. When the disease yields to the operation of mercury, the indurated portions of cuticle separate, and a smooth new cuticle is found formed underneath. The fingers and toes are not affected with the patches, &c. venereal cases.

5. Psoriasis labialis. The psoriasis sometimes affects the lip without appearing on any other part of the fects the lip without appearing on any other part of the body. Its characteristics are, as usual, scaliness, intermixed with chaps and fissures of the skin. The scales are of a considerable magnitude, so that their edges are often loose, while the central points are attached; a new cuticle gradually forms beneath the scales, but is not durable. In the course of a few hours it becomes dry, shrivelied, and broken; and, while it exfoliates, gives way to another layer of tender cuticle which soon, in like manner, perishes. These cuticle, which soon, in like manner, perishes. These appearances should be distinguished from the light chaps and roughness of the lips produced by very cold or frosty weather, but easily removed. The psoriasis labialis may be a little aggravated by frost or sharp winds, yet it receives no material alleviation from an opposite temperature. It is not, indeed, confined within any certain limit, or period of duration, having, in several instances, been protracted through all the seasons. The under lip is always more affected than the upper; and the disease takes place more especially in those persons whose lips are full and prominent.

6. Psoriasis scrotalis. The skin of the scrotum may be affected in the psoriasis diffusa like other parts of the surface of the body; but sometimes a roughness and scaliness of the scrotum appears as an independent complaint, attended with much heat, itching, tension, and redness. The above symptoms are succeeded by a hard, thickened, brittle texture of the skin, and by under the same circumstances as the prurigo scroti, and appears to be in some cases a sequel of it. species of the psoriasis scrotalis likewise occurs in the lues venerea, but merits no particular attention, being always combined with other secondary symptoms of

the disease.

7. Psortasis infantilis. Infants between the ages of two months and two years, are occasionally subject to the dry tetter. Irregular scaly patches, of various sizes appear on the cheeks, chin, breast, back, naies, and thighs. They are sometimes red, and a little rough or elevated; sometimes excoriated, then again covered with a thin incrustation; and, lastly, intersected by chaps or fissures. The general appearances nearly coincide with those of the psoriasis diffusa: but there are several peculiarities in the tetters of infants, which require a distinct consideration.

The Psoriasis inveterata is characterized by an almost universal scaliness, with a harsh, dry, and thickened state of the skin. It commences from a few almost universal scanness, while a harsh, my, more thickened state of the skin. It commences from a few irregular, though distinct patches on the extremities, Others appear afterward on different parts, and, becoming confluent, spread at length over all the surface of the body, except a part of the face, or sometimes the palms of the hinds, and soles of the feet. The skin is red, deeply furrowed, or wrinkled, stiff and rigid, so as the confluence of the musting of the musters, and the surfaces, and somewhat to impede the motion of the muscles, and of the joints. So quick, likewise, is the production of the joints. So quick, inkewise, is the production and separation of scales, that large quantities of them are found in the bed on which a person affected with the disease has slept. They fall off in the same proportion byday, and being confined within the linen, excite a troublesome and perpetual riching.

Pso area. (From ψωρα, the itch.) Medicines to

cure the itch

PSOROPHTHA'LMIA. (From  $\psi_{\omega \rho \alpha}$ , the itch, and  $\sigma \theta \theta d \lambda_{\mu \rho \sigma}$ , an eye.) An inflammation of the eyelids, attended with ulcerations, which itch very much. By psorophthalmy, Mr. Ware means a case in which the inflammation of the eyelids is attended with an ulceration of their edge-core, which a chalifum tion of their edges, upon which a glutinous matter lodges, and becomes hard, so that in sleep, when they have been long in contact, they become so adherent, that they cannot be separated without pain. The proximate cause is an acrimony deposited in the glands of the cyclids. The species of the psorophthalmia are, 1. Psorophthalmia crustosa, which forms dry or hu-

mid crusts in the margins of the eyelids. 2. Psorophthalmia herpetica, in which small papulæ,

itching extremely, and terminating in scurf, are ob served.

PSYCHAGO'GICA. (From ψυχη, the mind, and αγω, to move.) Medicines which recover in syncope or apoplexy

PSYCHOTROPHUM. (From \$\psi\_v\zeta\_0\zeta\_0\), cold: because it grows in cold places. A name altered by Linmus from the \$Psychotrophum of Browne, which alludes to the shady place of growth of most of the species. Ψυχοτροφον is an ancient name for an herb-loving shade.) The name of a genus of plants in the Linnæan system. Class, Pentandria; Order, Monogynia.

PSVCHOTRIA EMETICA. See Callicocca ipecacuanha. PSVCHO'TROPHUM. (From ψυχος, cold, and τρεφω, to nourish: so called because it grows in places exposed to the cold.) The herb betony. See Betonica officinalis.

PSYCHROBU TRUM. (From ψυχος, cold, and λουω, to wash.) A cold bath.
PSYCHTICA. (From ψυχω, to refrigerate.) Refri-

gerating medicines.
PSYDRA'CIA. PSYDRA'CIA. (From ψυχος, cold.) Red and somewhat elevated spots, which soon form broad and superficial vesicles, such as those produced by the stinging-nettle, the bites of insects, &c. See Pustual PSYLLI UM. (From \psi\nu\) a flear so called because it was thought to destroy fleas.) See Plantago

psyllium.
PTARMICA. (From πταιρω, to sneeze: so called because it irritates the nose, and provokes sneezing.)

Sneezewort. See Achillea ptarmica.

PTE RIS. (From πτερον, a wing: se called from the likeness of its leaves to wings.) The name of a genus of plants in the Linnman system. Class, Cryptogamia; Order, Filices.
PTERIS AQUILINA. The systematic name of the

common stake, of female fern. Filix famina. The plant which is thus called, in the pharmacopeias, is not the Polypodium filix famina, but the Pteris—frondibus supradecompositis, foliolis pinnatis, pinnis dibus supradecompositis, Jointis pinnatis, pinnat Lancolatis, infimis, pinnatifides, superioribus menoribus, of Linnauss. The root is estreamed as an anthelmintic, and is supposed to be as efficacious in destroying the tapeworm as the root of the male ferm.

PTEROCA'RPUS. (From  $\varpi 7_{E000}$ , a wing, and  $\kappa a \rho \pi \sigma_0$ , fruit.) The name of a genus of plants in the

καρπος, fruit.) T

PTEROCARPUS SANTALINUS. The systematic name of the red saunders-tree. Santalum rubrum. There is some reason to believe that several red woods, capable of communicating this colour to spirituous figuors, are sold as red saunders; but the true officinal kind are son as fee samples, but the free officinal kind appears, on the best authority, to be of this tree, which is extremely hard, of a bright garnet-red colour, and bears a fine polish. It is only the inner substance of the wood that is used as a colouring matter, and the more florid ted is mostly esteemed. On being cut, it more florid red is mostly esteemed. On being cut, it is said to manifest a fragrant odour, which is more especially observed in old trees. According to Lewis, this wood is of a dull red, almost blackish colour on the outside, and a deep brighter red within; its fibres are now and then curled, as in knots. It has no manifest smell, and little or no taste; even of extracts made from it with water, or with spirit, the taste is not considerable. not considerable.

To watery liquors, it communicates only a yellowish tinge, but to rectified spirit a fine deep red. quantity of an extract, made with this menstruum, tinges a large one of fresh spirit of the same colour; tinges a large one of fresh spirit of the same colour; though it does not, like most other resinous bodies, dissolve in expressed oils. Of distilled oils, there are some, as that of lavender, which receive a red fineture from the wood itself, and from its resinous extract, but the greater number do not. Red saunders has been esteemed as a medicine; but its only use attaches to its colouring property. The juice of this tree, like that of some others, affords a species of sanguis draconis. PTERY GIUM. (II/2007, a wing.) A membraneous excrescence which grows upon the internal cantus of the eye chiefly, and expands itself over the albugues and cornea towards the pupil. It appears to be an extension or promulgation of the fibres and

to be an extension or promulgation of the fibres and vessels of the caruncula lachrymalis, or semi-lunar membrane, appearing like a wing. The species of membrane, appearing like a wing.

pterygium are four: Pterggium tenne, sen ungula, is a pellucid pelli-cle, thin, of a cineritious colour, and unpainful; grow-ing out from the caruncula lachrymalis, or membrana

2. Pterygium crassum, seu pannus, differs from the ungula by its thickness, red colour, and fulness of the red vessels on the white of the eye, and it stretches over the cornea like fasciculi of vessels.

3. Pterygium mulgamm, is a painum of various co-lours, painful, and arising from a cancerous acrimony. 4. Pterygium progue, seu pringuicula, is a molecule like lard or fat, soft, without pain, and of a light yel-low colour, which commonly is situated in the external angle of the eye, and rarely extends to the cornea; but often remains through life.

PTERYGO. Names compounded of this word belong to muscles which are connected with the pterygoid process of the sphenoid bone; as pterygo-pharyn-

geus, &c.

PTERYGO-PHARYNGEUS. See Constrictor pharyngis

superior.

PTERYGO-STAPHILINUS EXTERNUS. See Levator PTERYGOID. (Pterygoides; from π7ερυξ, a wing, and μδος, resemblance.) Resembling the wing of a

PTERYGOID PROCESS. A wing-like process of the

sphenoid bone

PTERYGOIDE'UM OS. See Ethmoid bone. PTREVIOLES EXTERNUS. (Plersgoideus, from its belonging to the processus pierygoides.) Pierygoideus minor, of Winslow. Pierygo-colli-maxillaire, of Dumas. Musculus alaris externus. A muscle placed, as it were, horizontally along the basis of the total placed, as it were, horizontally along the basis of the conductively placed and the conductive placed. skull, between the pterygoid process and the condyle of the lower jaw. It usually arises by two distinct heads; one of which is thick, tendinous, and fleshy, from the outer wing of the pterygoid process of the oa

sphenoides, and from a small part of the os maxillare, adjoining to it; the other is thin and fleshy, from a ridge in the temporal process of the sphenoid bone, just behind the slit that transmits the vessels to the eye. Sometimes this latter origin is wanting, and, in that Sometimes this latter origin is waiting, and, in that case, part of the temporal intuscle arises from this ridge. Now and then it allords a common origin to both these muscles. From these origins the muscle forms a strong, fleshy belly, which descends almost transversely outwards and backwards, and is inserted, tendinous and fleshy, into a depression in the forepart of the condyloid process of the lower jaw, and into the anterior surface of the capsular ligament that surrounds the articulation of that bone. All that part of this muscle, which is not hid by the pterygoidens internus, is covered by a ligamentous expansion, which termis, is covered by a ligamentous expansion, which is broader than that belonging to the previgoideus intermis, and originates from the inner edge of the glenoid cavity of the lower jaw, inmediately before the styloid process of the temporal bone, and extends obliquely downwards, forwards, and outwards, to the inner surface of the angle of the jaw. When these miscles act together, they bring the jaw horizontally forwards. When they act singly, the jaw is moved forwards, and to the opposite side. The fibries that are inserted into the capsular ligament, serve likewise to bring the proveable cartilage forwards. to bring the moveable cartilage forwards.

PTERYGOIDEUS INTERNUS. Pterygoideus major, of Winslow. Pterygo-angule-maxillaire, of Dumas. This muscle arises tendinous and fleshy from the whole internet sufference that the sufference of th inner surface of the external ala of the pterygoid proinner surface of the external aid of the persygoid pro-cess, filling all the space between the two wings; and from that process of the os palati that makes part of the pterygoid fossa. From thence, growing larger, it descends obliquely downwards, forwards, and outwards, and is inserted, by tendinous and fleshy fibres. wards, and is inserted, by tendinous and neshy intention to the inside of the lower jaw, near its angle. This muscle covers a great part of the pterygoideus externus; and along its posterior edge we observe a ligamentous band, which extends from the back part of the styloid process to the bottom of the angle of the lower jaw. The use of this muscle is to raise the lower jaw, and to pull it a little to one side.

iower jaw, and to put it a fittle to one side.

Ptenygoldeus major. See Pterygoideus externus.

Ptenygoldeus minor. See Pterygoideus externus.

Ptil. ('SiS. (From π/μλος, hid.) See Madarosis.

Ptil. ('SiS. (From π/μλος, hid.) See Madarosis.

Ptil. SANA. (From π/μασω, to decorticate, bruise, or pound.) Ptissana. 1. Barley deprived of its husks, pounded, and made into balls.

2. A drink is so called by the French, made mostly of farinaceous substances; as barley, rice, grits, and the like, boiled with water, and sweetened to the

palate

PTOSIS. (From  $\pi\iota\pi/\omega$ , to fall.) Blepharoptosis An inability of raising the upper eyelid. The affection may be owing to several causes, the chief of which are a redundance of the skin on the eyelid; ? paralytic state of the levator muscle, and a spasm of the orbicularis.

Prosts IRIDIS. Prolapsus iridis. A prolapsus of the iris through a wound of the cornea. It is known by a blackish tubercle, which projects a little from the cornea in various forms. The species of the ptosis of the iris are.

1. Plosis recens, or a recent plosis from a side wound of the cornea, as that which happens, though rarely, in or after the extraction of the cataract.

2. Ptosis inveterata, in which the incarcerated pro lapsed iris is grown or attached to the wound or ulcer, and has become callous or indurated. PTYALAGO'GUE. (From π/ναλον, spittle, and

ayu, to excite.) Medicines which promote a discharge of the saliva, or cause salivation.

PTYALI'SMOS. See Psyalismus.

PTYALI'SMUS. (From π]ναλιζω, to spit.) A ptyalism or salivation, or increased secretion of salivation, the post he would be seen the mouth.

PTY'ALUM. (From π7υω, to spit up.) The saliva

or mucus from the bronchia.

Ptyasmago'ga. (From \( \pi \) \( \pi

PU'BES. 1. The external part of the organs of generation of both sexes, which after puberty is covered with hair.

2 The down or pubescence on leaves, seeds, &c of some plants.

PUBES SEMINIS. See Pappus. PUBESCENCE. Pubescention

PUBES SEMINIS. See Pappus.
PUBESCENCE. Pubescentia. Under this term is included all kinds of down, hairs, and bristle-like bodies found on the surface of the leaves, stems, pods, &cc. of plants. They differ considerably in form and texture, but consist of small, slender bodies, which are either soft and yielding to the slightest impression, or rigid and comparatively unyielding: the former are, properly speaking, pili, or hairs; the latter bristles, seta; and, therefore, under these two heads every kind of pubescence may be arranged. See Pilus and

PUBESCENS. Pubescent: applied to the stigma

of the genus Vicia.

PUBIS OS. A separate bone of the feetal pelvis. See

PUDE'NDUM. (From pudor, shame.) The parts

generation.
PUDENDA'GRA. I'UDENDA'GRA. (From pudenda, the private parts, and  $\alpha\gamma\rho\alpha$ , a seizure.) Cedma. The venereal disease has been so named by some. A pain in the private

PUDENDUM MULIEBRE. The female parts of gene-

PUDI'CAL. (Pudicus; from pudor, shame.) Be-

bonging to the pudenda.

PODICAL ARTERY. Arteria pudica. Pudendal artery. A branch of the internal itiac distributed on the

organs of generation.

MORBUS.

The epilepsy.

Appertaining to PUERI'LIS MORBUS. The epilepsy.
PUERPPERAL. Puerperalis. Appertaining to child-bearing; as puerperal convulsions, fever, &c.
PUFFBALL. See Lycoperdon.
PUGI'LLUS. (From pugnus, the fist.) Dragmis.
A pugil, or handful.
PULE'GIUM. (From pulex, a flea; because the smell of its leaves, burned, destroys fleas.) See Mentha

pulegium

PULEGIUM CERVINUM. Hart's pennyroyal.

Mentha cervina, of Linnæus.
PULICA'RIA. (From pulex, a flea: so named because it was thought to destroy fleas if hung in a

chamber.) See Plantago psyllium.
PU'LMO. (Pulmo, onio m. Plin. πνευμών. Attice
πλευμών, unde, per metathesin pulmo.) The lung.

See Lang.
PULMONA'RIA. (From pulmo, the lung; so called because of its virtues in affections of the lungs.) The name of a genus of plants in the Linnman system.

Class, Pentandria; Order, Monogynia. Lungwort.
PULMONARIA ARBOREA. See Lichen pulmonarius
PULMONARIA MACULATA. See Pulmonaria offic See Pulmonaria offici-

malis.

PULMONARIA OFFICINALIS. The systematic name of the spotted lungwort. Pulmonaria maculata; Symphitium maculosum. Jerusalem cowslips; Jerusalem sage. This plant is rarely found to grow wild in England; but is very commonly cultivated in gardens, where it clayes become broader and annurach nove where its leaves become broader, and approach more to a cordate shape. The leaves, which are the part medicinally used, have no peculiar smell; but, in their recent state, manifest a slightly adstringent and mucilaginous taste: hence it seems not wholly without foundation that they have been supposed to be demul-cent and pectoral. They have been recommended in hæmoptoes, tickling coughs, and catarrhal defluxions upon the lungs. The name pulmonaria, however, seems to have arisen rather from the speckled appearance of these leaves resembling that of the lungs, than from any intrinsic quality which experience discovered

to be useful in pulmonary complaints.
PULMONARY. Pulmonaris. Belonging to the

PULMONARY ARTERY. The pulmonary artery, as teria pulmonalis, arises from the right ventricle of the heart, and soon divides into the right and left, which ramily throughout the lungs, and form a beautiful net-work on the air vesicles, where they terminate in the velns, vene pulmonales, whose branches at length form four trunks, which empty themselves into the left auricle of the heart.

Pulmonary consumption. See Phthisis.
Pulmonary vein. See Pulmonary artery.
Pulmo'nica. (From pulmo, the lungs.) Medicines

PULMONI'TIS. (From pulmo, the lungs.) An in-

PULSATI'LLA NIGRICANS. (From pulso, to best about: so called from its being prepetually agitated by the air.) See Angenone pratensis.

PULSE. Pulsus. The beating of the heart and arteries. The pulse is generally felt at the wrist, by pressing the radial artery with the fingers. The action december. pressing the radial artery with the fingers. The action depends upon the impulse given to the blood by the heart; hence physicians feel the pulse, to ascertain the quickness or tardiness of the blood's motion, the strength of the heart, &c. See Grevulation.

PULSILE GIUM. (From pulsus, the pulse, and tego, to tell.) An instrument for measuring the pulse. PULVI'NAR. (From pulsus, dust or chaff, with which they are filled.) A medicated cushion.

PULVINA'RIUM. See Pulvinar.

PULYIVIA (Pulsus ensistem). A powder. Pulvinar.

PU'LVIS (Pulvis, veris, m.) A powder. Pulvi-narium. This form of medicine is either coarse or very fine, simple or compound. In the compounded powders, the intimate and complete admixture of the powders, the minate and complete admixture of the several ingredients, and more especially in those to which any of the more active substances, as opium, scammony, &c. are added, cannot be too strongly re-commended, and for this purpose it may be proper to pass them, after they are mixed mechanically, through

Pulvis aloes composities. Compound powder of aloes. Formerly called pulvis aloes cum guaiaco. Take of extract of spiked aloe, an ounce and a half; guaiacum resin, an ounce; compound powder of cinnamon, half an ounce. Powder the extract of aloe and mon, hall an ounce. Powder the extract of aloe and guaiacum resin separately; then mix them with the compound powder of cinnamon. The dose is from gr. x. to 9]. It is a warm, aperient, laxative powder, calculated for the aged, and those affected with dyspeptic gout attended with costiveness and spasmodic complaints of the stomach and bowels.

A cathartic, PULVIS ALOES CUM CANELLA. struent powder, possessing stimulating and aloftic properties omitted in the last London Pharmacopeia, as rather suited to the purpose of extemporaneous pre-

PULVIS ALOES CUM FERRO. This possesses aperient and deobstruent virtues; and is mostly given in chlorosis and constipation. In the London Pharmacopæia this prescription is omitted for the same reason as pulvis aloes cum canella.

PULVIS ALOES CUM GUATACO. See Pulvis aloes compositus.

PULVIS ANTIMONIALIS. See Antimonialis pulvis.
PULVIS AROMATICUS. See Pulvis cinnamomi compositus.

Pulvis Ceruss & compositus. This is mostly used in the form of collyrium, lotion, or injection, as a mucilaginous sedative.

PULVIS CHELARUM CANCRI COMPOSITUS. An antacid and adstringent powder, mostly given to children with diarrhæa and acidity of the primæ viæ.

PULVIS CINNAMOMI COMPOSITUS. Compound powder of cinnamon. Formerly called pulvis aromaticus:
species aromatica: species diambræ sine odoratis.
Take of common cinnamon bark, two ounces; cardamorn-seeds, an ounce and a half; ginger-root, an ounce; long pepper, half an ounce. Rub them together, so as to make a very fine powder. The dose is from five to ten grains. An elegant stimulant, carminative, and stomachic powder.

PULVIS COBBII. Pulvis tunguinensis. This once celebrated powder consists of sixteen grains of musk, and forty-eight grains of cinnabar. It is directed to be

mixed in a gill of arrack. Pulvis contrajety & compositivs. Take of contrajerva root powdered, five ounces; prepared shells, a pound and a half. Mix. A febrifuge diaphoretic, mostly given in the dose of from one to two scruples, in slight febrile affections.

PULVIS CORNU USTI CUM OPIO. Powder of burnt rupis cornu usti com opio. Fowder of burnt hartshorn with opium. Pulvis opiatus. Take of hard opium, powdered, a drachm; hartshorn, burned and prepared, an ounce: cochineal, powdered, a drachm Mix. This preparation affords a convenient mode of exhibiting small quantities of opium, ten grains containing one of the opium. It is absorbent and anothere.

PULVIS CRETE COMPOSITUS. Compound powder of chalk. Pulvis e bolo compositus spine opio. Species e scordio sine opio. Diascordium, 1720. Take of prepared chalk, half a pound; cinnamon bark, four

cunces: tormentil root, acacia gum, of each three ounces: long pepper, half an ounce. Reduce them separately into a very fine powder and then mix. The dose is from 3 ss. to 3 i. An astringent, carminative, and stomachic powder, exhibited in the cure of diarrhea, pyrosis, and diseases arising from acidity of the bowels, inducing much pain.

PULVIS CRETE COMPOSITUS CUM OPIO. Compound Peters create composities cent of to. Compound powder of chalk with opium. Putors e bolo composities cum opio. Species e cordio cum opio. Take of compound powder of chalk, six ounces and a half. Hard opium, powdered, four scruples. Mix. The dose from one scruple to two. The above powder, with the addition of opium, in the proportion of one serial to two scruples.

grain to two scruples.

PULVIS IPECACUANHÆ COMPOSITES. Compound powder of ipecacuanha. Take of ipecacuanha root, pow-dered, hard opium powdered, of each a drachm: suldered, hard opium powdered, of each a drachm; sulphate of potassa, powdered, an onnee. Mr. A diaphoretic powder, similar to that of Lr. Dover, which gained such repute in the cure of rheumatisms, and other diseases arising from obstructed perspiration and spassm. The dose is from five grains to a scrupic.

PULUS KINO COMPOSITUS. Compound powder of kino. Take of kino 15 drachms; cinnamon bark, half an onnee; hard opium, a drachm. Reduce them separately to a very fine powder; and then mix. The provention of count this astringent contains is one part

portion of opium this astringent contains is one part to twenty. The dose is from five grams to a scruple.

PULVIS MYRRHE COMPOSITUS. A stimulant, antispasmodic, and emmenagogue powder, mostly exhibited in the dose of from lifteen grains to two scruples, in uterine obstructions and hysterical affections.

PULVIS OPIATUS. See Pulvis cornu usti cum opio.
PULVIS SCAMMONE & COMPOSITUS. Compound powof scammony. Pulvis comitis Warwicensis. Take of scammony gum resm, hard extract of jalap, of each two onness; ginger-root, half an ounce. Re-duce them separately to a very fine powder, and then mix. From ten to tifteen grams bited as a stimulating cathartic. From ten to tifteen grains or a scruple are exhi-

PULVIS SCAMMONII CUM ALOZ. A stimulating cathar-

tic, in the dose of from ten to fifteen grains. PULVIS SCAMMONII CUM CALOMELANE.

fugal cathartic, in the dose of from ten to fifteen

Compound powder of PULVIS SENNÆ COMPOSITUS. Take of senna leaves, su-Pulvis diasennæ. pertartrate of potassa, of each two ounces; scammony gum resin, half an ounce; ginger-root, two drachms. Reduce the scammony gum resin separately, the rest together, to a very time powder; and then mix. The dose is from one scruple to one drachm. A saline stimulating cathartic.

PULVIS TRAGACANTHE COMPOSITUS. Compound powder of tragacanth. Species diatragacanthæ frigidæ. Take of tragacanth powdered, acacia gum powdered, starch, of each an ounce and a half, refined sugar three Powder the starch and sugar together; then add the tragacanth and acacia gum, and mix the whole. Tragacanth is very difficultly reduced to powder. The dose is from ten grains to a drachm. A very useful demuleent powder, which may be given in coughs, diar-rheas, strangury, &c.

[PULVIS PARTURIENS. In a letter from Dr. John Stearns, of Saratoga county, to Dr. S. Akerly, dated Waterford, January 25th, 1807, is the following nar-

ration:—
"In compliance with your request, I hereby transmit you a sample of the pulvis parturiens, which I have been in the habit of using for several years with the most complete success. It expedites lingering par-turition, and saves to the accoucheur a considerable portion of time, without producing any bad effects on the patient. The cases in which I have generally found this powder to be useful, are when the pains are lingering, have wholly subsided, or are in any way in-competent to exclude the fœtus. Previous to its exhibition, it is of the utmost consequence to ascertain the non, it is of the ulmost consequence to ascertain the presentation, and whether any pretenatural obstruction prevents the delivery; as the violent and almost incessant action which it induces in the uterus precludes the possibility of turning. The pains produced by it are peculiarly forcing, though not accompanied with that distress and agony of which the patients frequently complain when the action is much less. My nethod of administrating it is atther in description. quently complain when the action is much less. My has been attributed to a poisonous quality in the ergot, method of administering it is either in decoction or but is obviously the consequence, simply, of long-con

powder. Boil half a drachm of the powder in half a powder. Both has a drachin of the powder in half 5 pint of water, and give one-third every twenty minutes, till the pains commence. In powder, I give from five to ten grains; some patients require larger doses, though I have generally found these sufficient.

ones, thought have a large, it will produce nausea and omiting. In most cases, you will be surprised with vonding. If most cases, you will be surprised with the suddenness of its operation; it is, therefore, necessary to be completely ready before you give the medicine, as the urgency of the pans will allow you but a short time atterward. Since I have adopted the use of this powder, I have seldom found a case that detailed by more than the solution. vomining. tained me more than three hours. Other physicians, who have administered it, concur with me in the success of its operation.

"The modus operandi I feel incompetent to explain. At the same time that it augments the action of the aterus, it appears to relax the rigidity of the muscular it not produce the beneficial effects of May bleeding, without inducing that extreme debility which is always consequent upon copious depletion? This appears to be corroborated by its mauscating effects on the stomach, and the known sympathy between this

viscus and the uterus.

"It is a vegetable, and appears to be a spurious growth of rye. On examining a granary, where rye isstored, you will be able to procure a sufficient quantity from among that grain. Rye, which grows in low, wet ground, yields it in greatest abundance."—New-York Med. Renos. Med. Repos.

This substance, which Dr. Stearns called pulvis parturiens, (more correctly pulvis ad parturandum) is the ergot, or spurred rye, or the secale cornutum. The above notice, from the Med. Rep., was the first publication in the United States, in relation to the use of spurred rye in cases of parturition. Since then, to the present time (1829), many trials have been made, and many cases reported of its efficacy in difficult labours. Some physicians have condemned its use, as often proving fatal Boston, however, has introduced it into his Materia Medica, and given the following account of its use.

"Various species of grain and grasses are subject to

a morbid excrescence on some part of the ear or spike, to which the French name ergot has been applied. kye is more frequently affected with this appendage than any other grain. Different conjectures have been offered relative to the nature of this excrescence, the most probable of which is that of Decandolle, who considers the ergot to be a parasitic vegetable, of the tribe of fungi, and genus selerotium.

"Ergot resembles a grain of rye, clongated to several times the common length, of an irregular form, and a dark colour. It has a light and brittle texture, and an unpleasant taste. According to Vauquelin, it contains a pale-yellow colouring matter; an oily matter; a violet colouring matter; an acid, probably phosphoric; and a vegeto-animal matter.
"This substance was formerly suspected of pro-

ducing certain epidemic diseases—the dry gangrene, and raphania but the suspicion was probably unfounded. In regard to its immediate effect on the system, the reports of medical authors differ widely, some considering it highly deleterious. From my own observations, I have found that it produces nausea and voniting, in doses of from a scruple to a drachm; that it seldom operates upon the bowels; and that large doses produce headache and temporary febrile symp-It has very little acrimony, and does not prove sternutatory when snuffed up the nostrils.

"Besides these more general effects, ergot has a specific power of stimulating the uterus during the process of parturition, in a manner that is not known to be produced by any other medicinal agent. This effect wholly unequivocal, and cannot be confounded with the common uterine efforts. It is moreover certain, or at least its failures are not more frequent than those of any of our most common operative drugs. This operation consists in a powerful, incessant, and unremitting contraction of the uterus, not alternating with intervals of ease, as in common labour, but continuing without intermission until the child is expelled. When ergot is prematurely or injudiciously administered, the child does not breathe at birth, is difficult to resuscitate, and is sometimes irrecoverably dead. This effect

tinued and unremitting pressure on the child, a fact pointed out in the New England Journal, as early as 1812

"A few medical writers, principally in Europe, in consequence, probably, of not being furnished with a genuine article, in an unimpaired state, have doubted the power of ergot to effect or after the action of the uterus. But I may safely assert, that after fifteen years, during which this drug has attracted notice among us, there is scarcely an article of the ma-teria medica, upon the character of which the minds of the profession in this country are more fully made up, than upon this. Indeed our medical journals, and books of materia medica, have teemed with evidences of its activity.

" For obvious reasons, ergot should never be given "For obvious reasons, ergor should never be given in natural and favourable cases of labour. It is strongly contraindicated, at all times, by earliness of the stage, rigidity of the soft parts, any unitavourable conformation, or any presentation which requires changing. It is admissible in lingering cases or children ascertained to be dead, and in lingering cases of abortion. It is useful in retained placenta; and, from its power of causing contraction of the uterus, it arits power of causing contraction of the uterus, it ar-rests flooding after delivery. In females habitually subject to profuse hæmorrhage at this period, there is perhaps no better preventive than a full dose of ergot, administered just before delivery. Its efficacy has been repeatedly attested.

"Spurred rye has been administered as an emmenagogue with various success. Its action on the impreg-nated uterus is much less than it displays in labour; yet the result of many trials has been, on the whole,

in favour of its emmenagogue power.

"Ergot is commonly given in powder, boiled or infused in hot water. A drachm may be prepared in this way for a puerperal patient, and one quarter of the mixture, while turbid, given every twenty minutes, till its effect becomes perceptible. In amenorrhea, ten or fifteen grains may be given, three times a day, and increased if nausea does not ensue."—Bigelow's Ma-

teria Medica. A.]
PUMICE. A mineral of which there are three species, the glossy, common, and porphyritic, found in the

Lipari islands and Hungary.

PUMPION. See Cucurbita.
PUNCTATUS. Dotted. Applied to petals of the
Melanthium capense: receptacle of the Leontodon ta-

PU'NCTUM. A point. The opening or commence ment of a duct of the eye has received this name, because its projection gives it the appearance of a spot

PUNCTUM AUREUM. Formerly, when a hernia of the intestines was reduced by an incision made through the skin and membrana adiposa, quite down to the upper part of the spermatic vessels, a golden wire was fixed and twisted, so as to prevent the descent of any thing down the tunica vaginalis.

PUNCTUM LACHRIMALE. Lachrymat point. Two small orifices, one of which is conspicuous in each eyelid, at the extremity of the tarsus, near the internal can-

thus, are called puncta lachrymalia.

PU'NICA. The name of a genus of plants in the
Linnæan system. Class, Icosandria; Order, Mono-

PUNICA GRANATUM. The systematic name of the pomegranate. Granatum. Punica—joliis lanceolatis, caule arboreo, of Linnœus. The rind of the fruit and the flowers called Balaustine flowers, are the parts directed for medicinal use. In their smell there is nothing remarkable, but to the taste they are very adstrugent, and have successfully been employed as

adstringent, and nave successfully been employed as buch, in diseases both internal and external.

PUPIL. (Pupilla; from pupa, a babe: because it reflects the diminished image of the person who looks upon it like a puppet.) The round opening in the middle of the iris, in which we see ourselves in the eye of

another.
PUPI'LLA. See Pupil.
PUPILLA'RIS. Of or belonging to the pupil.
(From pupilla, the PUPILLARIS MEMBRANA. (From pupilla, the pupil.)

PUBLIANTS HEMBERSM. (FIGHT Papitar, the papitar) See Membrana pupillaris.
Pretition value. See Membrana pupillaris.
PURGATIVE. Whatever increases the peristaltic pnotion of the bowels, so as to considerably increase the alvina evacuations. Sea Cathartic.

Purging flax. See Linum catharticum
Purging-nut. See Jatropha curcas.
PURIFORM. (Purformus; from pus, and formaresemblance.) Like unto the secretion called pus.
PURPURA. (Πορφυρα, the name of a shell of a

resemblance.) Like unto the secretion called pus. PURPURA. ( $\Pi o \rho \phi v \rho a$ , the name of a shell of a purple colour: hence purpura, a purple colour.) An efforescence consisting of small, distinct, purplespecks and patches, attended with general debility, but not always with fever, which are caused by an extravasation of the vessels under the cuticle. It is divided into

the five following species:

1. Purpura symplex This has the appearance of petechiæ, without much disorder of the constitution, percents, without much disorder or the constitution, except languor, pain in the limbs, and a sailow complexion. The petechlæ are most numerous on the breast, inside of the arms and legs, and are of various sizes, and commonly circular. There is no itching on

other sensation attending the petechiæ.

 Purpura homorrhagica is considerably more severe; the petechiæ are of larger size, and interspersed with vibices and ecchymoses, resembling the marks left by the strokes of a whip, or by violent brusses. They appear first on the legs, arterward on the thighs, arms, and trunk of the body; the hands being more rarely spotted with them, and the face generally free. rarely spotted with them, and the face generally free. They are of a bright red colour when they first appear, but soon become purple or livid; and when about to disappear they change to a brown or yellowish bue; the cuicle over them appears smooth and shining, but is not sensibly elevated; in a few cases, however, it has been seen raised into a sort of vesicle, containing black blood. This more particularly happens in the spots which appear on the tongue, gums, and palate, and inside of the cheeks and hips where the cuticle is extremely thin: the gentlest pressure on the skin, again. extremely thin; the gentlest pressure on the skin, even feeling of the pulse, will often produce a purple blotch, like that which is left after a severe bruise.

The same state of habit, which gives rise to these effusions under the cuticle, produces likewise copious discharges of blood, especially from the internal parts; they are often very profuse, and suddenly prove fatal; but in other cases they are less copious; sometimes but in other cases they are less copious; sometimes returning every day at stated periods, and sometimes less frequent, and at regular intervals; and sometimes there is a slow and almost incessant oozing of blood. The bleeding occurs from the gums, nostrils, throat, inside of the cheeks, tongue, and lips, and sometimes from the lining membrane of the eyelids, the urethra, and external ear; and also from the internal cavities of the lungs, stomach, bowels, uterus, kidneys, and

This disease is often preceded by great lassitude, faintness, and pains in the limbs; but not untrequently in appears suddenly in the midst of apparent good health. It is always accompanied with extreme debility and depression of spirits: the pulse is commonly feeble, and sometimes quickened; and heat, flushing, perspiration, and other symptoms of febrile irritation, occasionally attend. When the disease has continued for some time, the patient becomes sallow, and much emaciated; and some degree of cede ma appears on the lower extremilies, which afterward extends to other parts of the body. This disease is extremely uncertain in its duration; in some instances it has ter-ninated in a few days, while in others it has continued, not only for many months, but even for years.

The causes of this disease are by no means c'early

ascertained: it occurs at every period of life, and in both sexes, but especially in women and in boys before the age of puberty, particularly those who are employed in sedentary occupations, and who live in close and crowded situations. It has sometimes occurred as a sequela, of small-pox, and of measles, and sometimes in the third or fourth week of puerperal confinement. It is supposed that some local visceral obstruction is the cause of the disease in different instances, as artificial cause of the disease it different instances, as admired bleeding, and purging, tend greatly to relieve it. The ancient physicians attributed the hemorrhagies from the nose, gums, and other parts, to the morbid enlargement of the spleen.

In the slighter degrees of purpura occurring in chil-

dren who are ill fed and nursed, and who reside in close places, or in women shut up in similar situations, and debiitated by anxiety of mind, want of proper food, and by fatigue, the use of tonics, with the mineral acids, and wine, will doubtless be adequate to the cure acids, and wine, war added of the disease, especially where exercise in the open

air can be employed at the same time. But when it occurs in adults, especially those who already have the neuefit of exercise in the air of the country, and who have suffered no privation with respect to det, when it is accompanied with a white and loaded tongue, a mile and somewhat small deaded tongue, a somewhat small though sharp pulse, ocquick and quick and somewhat sman though smarp pints, oc-casional chills and heats, and other symptoms of feverishness, however moderate, and if there be at the same time fixed internal pains, a dry cough, and an irregular state of the bowels (symptoms which may be presumed to indicate some local congestion); then the presumed to indicate some rocal congestion,, then one administration of tonic medicines, particularly wine, cinchona, and other warmer tonics will be found incificacious, if not decidedly injurious. In such cases, free and repeated doses of medicines containing the sub-muriate of mercury, and regulated by their effects on the symptoms of the complaint, and by the appearance of the excretions, from the intestines, will be found most beneficial.

If the pains are fixed, the marks of febrile irritation If the pains are fixed, the marks of rebrite irritation considerable, and the spontaneous hemorrhage not profuse, local or general blood-letting may be employed with great benefit, especially in robust adults. When the urgency of hemorrhagic tendency has been diminished by these means, the constitution rallies, though not rapidly, with the assistance of the mineral acids, and cinchona or cascarilla, or some preparation of iron, together with moderate exercise and nutritious diet.

together with moderate exercise and natritious diel.

3. Purpura urticans is distinguished by commencing in the form of rounded and reddish elevations of the cuticle, resembling wheals, which are not accompanied like the wheals of urticaria by any sensation of tugling and itching. These tumours gradually dilate, but within one or two days they subside to a level of the surrounding cuticle, and their hue becomes darker, and at length livid. They are most common on the legs where they appear with petechiæ, but also appear on the arms, thighs, breast, &c.

It usually occurs in summer and autumn, and lasts from three to five weeks. Some adema of the ex-tremities usually accompanies it, and it is occasionally preceded by a stiffness and weight of the limbs. The same rules of treatment apply to this as to the pre-

ceding varieties of the disease.

4. Purpura senilis appears principally along the outside of the forearm, in elderly women, in successive dark purple blotches, of an irregular form, and various magnitude; each of these continues from a week to ten days, when the extravasated blood is absorbed.

Tonics or any other expedient do not appear to exert any influence over the eruption.

5. Purpura contagiosa, is an eruption of petechia which occasionally accompanies typhoid fevers; where they occur in close situations, they are merely symptomatic, and are very rarely seen.

PURPURA ALBA. Purpura rubra. Many writers term the miliary fever, when the pustules are white,

term the miliary lever, when the pustures are white, purpure alba; and when they are red, purpura rubra. Peterbra scornertex. Peterbra eruptions inscurvy. PURPURIC ACID. Acidum purpuricum: so called from its fine red colour. The excrements of the serpent, Boa constrictor, consist of pure lithic acid. Dr. Prout found that on digesting this substance thus obtained, or from urinary calculi, in dilute nitric acid, an effervescence takes place, and the lithic acid is dis-solved forming a beautiful purple liquid. The excess of nitric acid being neutralized with ammenia, and the whole concentrated by slow evaporation, the colour of the solution becomes of a deeper purple; and dark red granular crystals, sometimes of a greenish hue exterranular crystas, sometimes of a greenism nue exter-nally, soon begin to separate in abundance. These crystals are a compound of ammonia with the acid principle in question. The ammonia was displaced by digesting the salt in a solution of caustic potassa, till the red colour entirely disappeared. This alkaline solution was then gradually dropped into dilute sulphuric acid, which, uniting with the potassa, left the acid

ric acid, which, until with the polasses, lett the acid principle in a state of purity.

This acid principle is likewise produced from lithic acid by chlorine, and also, but with more difficulty, by iodine. Dr. Prout, the discoverer of this new acid, has, at the suggestion of Dr. Wollaston, called it purpuric acid, because its saline compounds have for the most

part a red or purple colour.

This acid, as obtained by the preceding process, usually exists in the form of a very fine powder, of a slightly yellowish or cream colour; and when examined

with a magnifier, 'especially under water, appears to possess a pearly lustre. It has no smell, nor taste, spec. grav. is considerably above water. It is sear It is scarcely spec, grav. is considerably anote water. It is scarcely soluble in water. One-tenth of a grain, boiled for a considerable time in 1000 grains of water was not entirely dissolved. The water, however, assumed a purple tint, probably, Dr. Prout thinks, from the formapurple this probably, Br. Flow thinks, from the forma-tion of a little purpurate of aumonia. Purpura exid is insoluble in alkohol and either. The mineral acids dissolve it only when they are concentrated. PURSLANE. See Portulara. PURULENT. (Purulens, from pus.) Having the

appearance of pus.

PUS. Matter. A whitish, bland, creanlike fluid, heavier than water, found in phlegmonous abscesses, or on the surface of sores. It is distinguished, according to its nature, into laudable or good pus, scrofulous,

ing to its nature, into laudable or good pus, scrottious, serous, and ichorous pus, &c.

Pus taken from a healthy ulcer, near the source of circulation, as on the arm or breast, Sir Everard Home observes, readily separates from the surface of the sore, the granulations underneath being small, pointed, and of a florid red colour, and has the following properties: it is nearly of the consistence of cream; is of perties: it is nearly of the consistence of cream, is of a white colour; has a mawkish taste; and, when cold, is modorous; but, when warm, has a peculiar smell. Examined in a microscope, it is found to consist of two parts, of globules, and a transparent colourless fluid; the globales are probably white, at least they appear to have some degree of opacity. Its specific gravity is greater than that of water. It does not readily go into putrefaction. Exposed to heat, it evaporates to dryness; but does not congulate. It does not unite with water in the heat of the atmosphere, but falls to the bottom; vet, if kept in a considerable but falls to the bottom; yet, if kept in a considerable degree of heat, it rises and diffuses itself through the water, and remains mixed with it, even after having been allowed to cool, the globules being decomposed.

been allowed to cool, the globules being decomposed.

Pus varies in its appearance, according to the different circumstances which affect the ulcer that forms it; such as, the degree of violence of the inflammation, also its nature, whether healthy or unhealthy; and these depend upon the state of health, and strength of the parts yielding pus. These changes arise more from indolence and irritability, than from any absolute disease; many specific diseases, in healthy constitutions, producing no change in the appearance of the matter from their specific quality. Thus, the matter from a genoring a from the small-pox mistales or the from a gonorrhea, from the small-pox pustules, or the from a gonormora, from the small-pox pustines, or the chicken-pock, has the same appearance, and seems to be made up of similar parts, consisting of globules floating in a transparent fluid, like common pus; the specific properties of each of these poisons being superadded to those of pus. Matter from a cancer may be considered as an exception; but a cancerous ulcer

In indolent ulcers, whether the indolence arise from the nature of the parts, or the nature of the inflammation, the pus is made of globules and flaky particles, floating in a transparent fluid; and globules and flakes floating in a transparent fluid; and globules and flakes are in different proportions, according to the degree of indolence: this is particularly observable in scrothlous abacesses, preceded by a small degree of inflammation. That this flaky appearance is no part of true pus, is well illustrated by observing, that the proportion it bears to the globules is greater where there is the least inflammation; and in those abscesses that sometimes occur, which have not been preceded by any inflammes. occur, which have not been preceded by any inflamma-tion at all, the contents are wholly made up of a curdy or flaky substance of different degrees of consistence, which is not considered to be pus, from its not having the properties stated in the definition of that fluid.

The constitution and part must be in health to form good pus; for very slight changes in the general health

good pus; for very slight changes in the general health are capable of producing an alteration in it, and even of preventing its being formed at all, and substituting in its place congulating lymph.

This happens most readily in ulcers in the lower ex-tremities, owing to their distance from the source of the circulation rendering them weaker. And it is curious to observe the influence that distance alone has upon the appearance of pus.

Pus differs from chyle in its globules being larger, not coagulating by exposure to the air, nor by heat, which those of chyle do.

The pancreatic juice contains globules, but they are much smaller than those of pus.

Milk is composed of globules, nearly of the same size as those of pus, but much more numerous. Milk coagulates by runnet, which pus does not; and contains oil and sugar, which are not to be discovered in

The cases in which pus is formed, are, properly speaking, all reducible to one, which is, the state of parts consequent to inflammation. For as far as we yet know, observes Sir E. Home, pus has in no inyet know, observes Sir E. Home, pus has in no instance been met with, unless preceded by inflammation; and although, in some cases, a fluid has been formed independent of preceding inflammation, it differs from pus in many of its properties.

In considering the time required for the formation of pus, it is necessary to take notice of the periods which have found under different preparatures to its remeasure.

are found, under different circumstances, to intervene between a healthy or natural state of the parts, and the presence of that fluid after the application of some

irritating substance to the skin.

In cases of wounds made into muscular parts, where blood-vessels are divided, the first process which takes place is the extravasation of red blood; the second is the exudation of coagulating lymph, which afterward becomes vascular; and the third, the formation of matter, which last does not, in common, take place in less than two days; the precise time will, however, vary exceedingly, according to the nature of the con-

stitution, and the state of the parts at the time.

If an irritating substance is applied to a cuticular surface, upon which it raises a blister, pus will be formed in about twenty-four hours.

Jormed in about usenty-four hours.

PUSTULA. A little pustule. See Pustule.

PUSTULE. (Pustule, a little pustule; from pus, matter.) Ecthyma; Eczema. Dr. Willan defines a pustule to be an elevation of the cuticle, sometimes globate, sometimes conoidal in its form, and containing pus, or a lymph which is in general discoloured. pus, or a lymph which is in general discoloured. Pus-tules are various in their size, but the diameter of the largest seldom exceeds two lines. There are many different kinds of pustules, properly distinguished in medical authors by specific appellations; as, 1. Phly-zacium, a small pustule containing pus, and raised or, a bard, circular, inflamed base, of a vivid red colour. It is succeeded by a thick, hard, dark-coloured scab. 2. Psydracium, according to Dr. Willan, a minute pus-tule, irregularly circumscribed, producing but a slight elevation of the cutice, and terminating in a laminated elevation of the cuticle, and terminating in a laminated scab. Many of these pustules usually appear together, and become confluent. When mature, they contain pus; and, after breaking, discharge a thin watery

humour.

PUTA'MEN. (From puto, to cut.) The bark or paring of any vegetable, as the walnut. See Juglans

paring of any vegetanie, as the regim.

PUTAMINEÆ. The name of an order in Linmaus's Fragments of a Natural Method, embracing
those which have an outer shell, or putamen, over a
hard fruit; as in Capparis and Merisoma.

PUTREFACTION. (Patrefactio; from putrefactio,
to become rotten, to dissolve.) Putrid fermentation.

Putrefactive fermentation. The spontaneous decomposition of such animal and vegetable matters as exhale a fetid smell. The solid and the fluid matters
are resolved into gaseous compounds and vapours,
which escape and unite an earthy residuum. The requisites to this process are, 1. A certain degree of huwhich escape and unite an earthy restautum. Ingre-quisites to this process are, 1. A certain degree of hu-midity. 2. The access of atmospheric air. 3. A cer-tain degree of heat: hence the abstraction of the air and water, or humidity, by drying, or its fixation by cold, by salt, sugar, spices, &c., will counteract the process of putrefaction, and favour the preservation of food, on which principle some patents have been ob-

food, on which principle some patents have used outlained. See Fermentation.

["PUZZOLANA. This usually occurs in small fragments, or friable masses, which have a dull, carthy aspect and fracture, and seem to have been baked. Its solidity does not exceed that of chalk. It is seldom tumefied; and its pores are neither so large nor numerous as those of scoria. Its colours are gray, or whitish,

reddish, or nearly black.

"By exposure to heat, it loses its power of affecting the needle, and melts into a black slag. A variety, examined by Bergman, yielded silex, 55 to 60; alumine, 19 to 20; iron, 15 to 20; iron, 15 to 20; iron, and the contains distinct articles of pumice, quartz, and scoria.

"Some mineralogists suppose the black puzzolana to be altered scoria; the white to be pumice, and has proceeded from argillaceous minerals, baked or calcined in the interior of the volcano.

But, whatever may have been its origin, it is ex-"But, windever may have been its origin, it is ex-tremely useful in the preparation of a mortar, which chardens quickly, even under water. When thus em-ployed, it is mixed with a small proportion of lime, perhaps one-third. Mr. Kirvan supposes, that the rapid induration of this mortar arises from the very low oxidation of the iron. If the mortar be a long time exposed to the air, previous to its use, it will

not harden.
"The best puzzolana is said to occur in old currents of lava; but, when too earthy, it loses its peculiar properties. That which comes from Naples is generally

of the perties. That which comes are gray."—Clav. Min. A.]

Putrid Feer. See Typhus gravior.

PYLORIC. (Pyloricus; from pylorus.) Belong-

PYLORIC. (Pytoricus; from pytorus.) Belonging to the pytorus.

PYLORIC ARTERY. Arteria pytorica. A branch of the hepatic artery.

PYLORUS. (From πυλη, an entrance, and ουφος, a guard; because it guards, as it were, the entrance of the bowles). Janistor; Portorarium; Ostiarius.

The inferior aperture of the stomach, which opens into the intestines

PYOPOE'TIC. (From muov, pus, and motew, to make.)

Suppurative. Pyorrhæ'A.

Suppurative.

Pyorrha'a. (From πυον, pus, and ρεω, to flow.)

A purulent discharge from the belly.

Pyorr'kia. (From πυον, pus, and ουρον, urine.)

Pyuria. A mucous or purulent urine.

PYRAMIDA'LIS. (From πυομία, a pyramid.) A muscle in the front of the belly. Fallopius, who is considered as the first accurate describer of this muscle, gave it the name of pyramidalse, from its shape, hence it is called pyramidalse Fallopii, by Dougla. But Vesalius seems to have been acquainted with t, and to have described it as a part of the rectus. It is called pyramidalis red succenturiatus, by Cowper; and pubic-ombifical, by Dumas. It is a very small muscle, situated at the bottom of the forepart of the zetus, and is covered by the same apponeurosis that forms the and is covered by the same aponeurosis that forms the anterior part of the sheath of that muscle. Barksey short, tendinous fibres, from the upper and brepart of the os pubis. From this origin, which is seldom more than an inch in breadth, its fibres ascend somewhat obliquely, to be inserted into the linea aba, and inner edge of the rectus, commonly at about the distance of two inches from the pubes, and frequently at a greater or less distance, but always below the umbificus. In some subjects, the pyramidalis is watting on one or both sides; and, when this happens, the internal oblique is usually found to be of greater thekness at its lower part. Now and then, though rarely, there are two at one side, and only one at the other, and Sabatier has even seen two on each side. Pallopus, and and is covered by the same aponeurosis that forms the batier has even seen two on each side. Pallopus, and many others after him, have considered it as the congener of the internal oblique; but its use seems to be to assist the lower part of the rectus.

Pyramidalis faciei. See Levator labii suprioris

PYRENEITE. A grayish-black coloured mineral,

PYRENEITE. A grayism-nack conoured immeration found in the Pyrenees. Pyrenoi res. (From worp, a kernel, and  $\epsilon dos$ , likeness: so called from its kernel-like shape.) Applied to the odontoid process of the second vertebra. Pyrene'rium. (From  $\varpi v_P$ , fire, and  $\tau \eta p_P \epsilon \omega_P$ , to ksep.) The fire-hole of a furnace.

PYRE'THRUM. (From wap, fire, because of the hot taste of its root.) See Anthomis pyrethrum.

PYRETIOLOGY. (Pyretologia; from roof eyers, PYRETIOA. The name given by Dr. Good to an order of his class Hamatica. Fevers. It has four genera: Ephemera; Anctus; Epanetus; Enecia. PYRETOLOGY. (Pyretologia; from roof)s, fever, and Aoyos, a discourse.) A discourse, or doctrine on fevers.

PYREXIA. (From \$100, fire.) Fever.
Pyrexia. Febrile diseases. The first class of Culen's Nosology; characterized by frequency of pulse after a cold shivering, with increase of heat, and especially, among other impaired functions, a diminution of treatment.

PYREXIAL. (From pyrexia, fever.) Appertaining to fever.

a shape; shaped like a pear.) A small radiated mus-cle of the pelvis, situated under the glutwus maximus. along the inferior edge of the glutaus maximus. Puriforms, seu diacus externus, of Douglas and Cowper. Spigelius was the first who gave a name to this muscle, which he called pyriformis, from its supposed resemblance to a pear. It is the pyriformis sive pyramidalis of Winslow; and sacrotrochanterien of Dumas. it arises by three, and sometimes four, tendinous and fleshy origins, from the anterior surface of the second. third, and fourth pieces of the os sacrum, so that this part of it is within the pelvis. From these origins, the muscle grows narrower, and passing out of the pelvis, below the niche in the posterior part of the nium, from below the little in the posterior part of the fault, from which it receives a few fleshy libres, is inserted by a roundish tendon, of an inch in length, into the upper part of the cavity, at the root of the trochanter major. The use of this muscle is to assist in anyting the thigh outwards, and moving it a little upwards.

(From wup, fire: so called because it h steel.) Native compounds of metal PYRITES. strikes fire with steel.)

with sulphur.

PYRITES ARSENICALIS. Sulphuret of iron with

PYRMONT. The name of a village in the circle PYKMONT. The name of a vinage in the circle of Westphalia, in Germany, in which is a celebrated mineral spring. Pyrmont water. Aqua pyrmontana is of an agreeable, though strongly actidulated taste, and emits a large portion of gas, which affects the persons who attend at the well, as well as those who drink the fluid, with a sensation somewhat resembling that produced by intoxication. A general view of the a rank of the highly carbonated chalybeates, and contans such an abundance of carbonic acid, as not only to hold dissolved a number of carbonic salts, but to shw all the properties of this acid uncombined, and snw an the properties of this acid uncombined, and in the most active form. Pyrmont water is likewise a strong chalybeate, with regard to the proportion of from and it is, besides, a very hard water, containing much selenite and earthy carbonates. The diseases to which this mineral water may be advantageously applied, are the same as those for which the Spa, and others of the acidulated chaly beates, are resorted to; that is, in all cases of debility that require an active tonic that is not permanently heating; as various dis-orders in the alimentary canal, especially billious vomiting, and diarrhea, and complaints that originate miting, and diarrhea, and complaints that originate from obstructed menstruation. At Pyrmont, the conpany generally drink this water by glassfuls, in a morning, to fine quantity of two, three, or more English pints. Its common operation is by urine; but, if taken copiously, it generally proves laxative; and when it has not this effect, and that effect is wanted, they commonly nix, with the first glass drank in the morning, from one to five or six drachms of some purging salts.

PYR) ACETIC ACID. (Acidum pycitricum; so called lecause it is obtained by the action of fire on the acetic acid.) Pyroacetic spirit. Obtained by the destructive distillation of the acetates, from which a mo-

structure distillation of the acetates, from which a modified vinegar escapes, called pyrocactic or spirit.

PYEOCITRIC ACID. Acidum pyrocitricum. A new acid obtained by distilling citric acid.

"When citric acid is put to distil in a retort, it begins at first by melting; the water of crystallization separates almost entirely from it by a continuance of the fusion; then it assumes a yellowish tint, which gradually deepens. At the same time there is disengaged a white vapour which goes over, to be condensed in the receiver. Towards the end of the calcination a brownish vapour is seen to form, and there remains in the bottom of the retort a light very brilliant charcoal.

The product contained in the receiver consists of two different liquids. One of an amber yellow colour, and an oily aspect, occupies the lower part; another, colour-less and liquid like water, of a very decided acid taste, floats above. After separating them from one another, we perceive that the first has a very strong bituminous odour, and an acid and acrid taste; that it reddens powerfully the tincture of litmus, but that it may be deprived aimost entirely of that acidity by agitation with water, in which it divides uself into globules, which soon fall to the bottom of the vessel, and are not long in uniting to one mass, in the manner of oils heavier than water.

In this state it possesses some of the properties of

PYRIFO'RMIS. (From pyrus, a pear, and forma, shape; shaped like a pear.) A small radiated must be of the pelvis, situated under the glutaus maximus, long the interior edge of the glutaus maximus. Pyroberved to deposite at the end of some days, white crystals, which have a very strong acidity; if we then agitate it anew with water, it dissolves in a great mea sure, and abandons a yellow or brownish pitchy mat ter, of a very obvious empyreumatic smell, and which has much analogy with the oil obtained in the de tillation of other vegetable matters. The same effect takes place when we keep it under water; it diminishes gradually in volume, the water acquires a sour taste, and a thick oil remains at the bottom of the vessel.

This liquid may be regarded as a combination (of little permanence indeed) of the peculiar acid with the

oil formed in similar circumstances.

As to the liquid and colourless portion which floated over this oil, it was ascertained to contain no citric acid carried over, nor acetic acid; first, because on saturating it with carbonate of lime, a soluble calcareous salt was obtained; and, secondly, because this salt, treated with sulphuric acid, evolved no odour of acetic

From this calcareous salt the lime was separated by oxalic acid; or the salt itself was decomposed with acetate of lead, and the precipitate treated with sulphuretted hydrogen. By these two processes, this new acid was separated in a state of purity.

Properties of the purocitric acid.—This acid is white, inodorous, of a strongly acid taste. It is difficult to make it crystallize in a regular manner, but it is usually presented in a white mass, formed by the interlacement of very fine small needles. Projected on a hot body it melts, is converted into white very pungent vapours, and leaves some traces of carbon. When heated in a melts, is converted into white and leaves some traces of carbon. When heated in a retort, it affords an oily-looking acid, and yellowish the composed. It is very soluble riquid, and is partially decomposed. It is very soluble in water and in alkohol; water at the temperature of 10°C. (50°F.) dissolves one-third of its weight. The watery solution has a strongly acid taste, it does not precipitate lime or barytes water, not the greater part of metallic solutions, with the exception of acetate of lead and protonitrate of mercury. With the oxides it forms salts possessing properties different from the ci-

The pyrocitrate of potassa crystallizes in small nee dies, which are white, and unalterable in the air. It dissolves in about 4 parts of water. Its solution gives no precipitate with the nitrate of silver, or of barytes; while that of the citrate of barytes forms precipitates with these salts. with these salts.

The pyrocitrate of line directly formed, exhibits a white crystalline mass, composed of needles, opposed to each other, in a ramification form. This sait has a sharp taste. It dissolves in 25 parts of water at 500

The solution of the pyrocitric acid saturated with barytes water, lets fall, at the end of some hours, a very white crystalline powder, which is pyrocitrate of barytes. This salt is soluble in 150 parts of cold water, rytes. This salt is soluble and in 50 of boiling water.

The pyrocitrate of lead is easily obtained by pouring pyrocitrate of potassa into a solution of acetate of lead. The pyrocitrate of lead presents itself under the form of a white gelatinous semutransparent mass, which be-

comes dry in the air.'

Cohies dry in the air.

PYROGOM. A variety of diopside.

PYROLA. (From pyrus, a pear: so named because its leaves resemble those of a pear-tree.)

1. The name of a genus of plants in the Linnaan system. Class, Decandria; Order, Monogynia.

2. The pharmacopecial name of the wintergreen. See

Pyrola rotundifolia.

PYROLA ROTUNDIFOLIA. The systematic name of the round-leaved wintergreen. This elegant little plant, common in our woods, is now forgotten in the

plant. common in our woods, is now torgotten in the practice of medicine. It possesses gently adstringent qualities, and has a somewhat bitter taste.

["PYROLL UMBELLATA The pyrola umbellata, or unitergreen, is a common plant of the American forest. Its leaves have a taste intermediate between sweet and bitter, which in the stalk and roots, is comsweet and bitter, which in the man and the problem of the pungency. Spirit extracts these properties; likewise water, though less perfectly. This recently it has been found a very useful palliative in strangury and nephritis, both in this country and in

Europe. In dropsy it has sometimes exhibited striking effects as a diuretic, a pint of the saturated infusion being taken every twenty-four hours. It has the advantage over the more common diuretics, that it does not offend the stomach, but, on the contrary, invigo-rates that organ, and assists digestion. The bruised leaves, externally applied, act as a rubefacient and a discutient to indolent swellings."-Bigclow's Materia

Medica. A.]
PYROLIGNEOUS ACID. (Acidum pyrolignosum;
so called because it is procured by distilling wood.)
"In the destructive distillation of any kind of wood, an acid is obtained, which was formerly called acid spirit of wood, and since, pyroligneous acid. Fourcroy and Vauquelin showed that the acid was merely the acetic, contaminated with empyreumatic oil and bitumen. See

Acetic acid. Under Acetic Acid will be found a full account of the production and purification of pyroligneous acid Monge discovered about two years ago, that this acid Monge discovered about two years ago, that this sach has the property of preventing the decomposition of animal substances. Mr. William Dinsdale, of Field Cottage, Colchester, three years prior to the date of Monge's discovery did propose to the Lords Commissioners of the Admiralty, to apply a pyroligneous acid, (prepared out of the contact of iron vessels, which blacken it,) to the purpose of preserving animal food, wherever their ships might go. As this application may in many cases afford valuable anti-scorbutic articles of food, and thence be eminently conducive to the health of seamen, it is to be hoped that their Lordship's will, ere long, carry into effect Mr. Dinsdule's ingenious plan, as far as shall be deemed necessary. It is sufficient to plunge meat for a few moments into this acid, even slightly empyreumatic, to preserve it as long as you please. 'Putrefaction,' it is said, 'not only stops, but retrogrades.' To the empyreumatic oil a part of this effect has been ascribed; and hence has been ascribed. counted for, the agency of smoke in the preservation of tongues, hams, herrings, &c. Dr. Jorg of Leipsic has entirely recovered several anatomical preparations from incipient corruption by pouring this acid over them. With the empyreumatic oil or tar he has smeared pieces of flesh already advanced in decay, and smeared pieces of flesh atready advanced in decay, and notwithstanding that the weather was hot, they soon became dry and sound. To the above statements Mr. Ramsay of Glasgow, an eminent manufacturer of pyroligneous acid, and well known for the purity of his vinegar from wood, has recently added the following facts in the 5th number of the Edinburgh Philosophical Journal. It fish be simply dipped in redistilled pyroligne Journal. It is no estimpty aligned in reastment pyrongine-ous acid, of the specific gravity of 1.012, and afterward dried in the shade, they preserve perfectly well. On boiling herrings treated in this manner, they were very agreeable to the taste, and had nothing of the disagree-able empyreuma which those of his earlier experiments had, which were steeped for three hours in the acid. A number of very fine haddocks were cleaned, split. A number of very line induces were created, space, and slightly sprinkled with salt for six hours. After being drained, they were dipped for about three seconds in pyroligneous acid, then hong up in the shade for six days. On being broiled, the fish were of an uncommonly fine flavour, and delicately white. Beef treated in the same way had the same flavour as Hamburgh in the same way may the same flavour as framburgh beef, and kept as well. Mr. Ramsay has since found, that his perfectly purified vinegar, specific gravity 1.034, being applied by a cloth or sponge to the sirfact of fresh meat, makes it keep sweet and sound for several days longer in summer than it otherwise would. Immersion for a minute in his purified common vinegar, epecific gravity 1.009, protects beef and fish from all taint in summer, provided they be hung up and dried in the shade. When, by frequent use, the pyroligneous acid has become impure, it may be clarified by beating up twenty gallons of it with a dozen of eggs in the usual manner, and heating the mixture in an iron boiler. Before boiling, the eggs coagulate, and bring the impu-Before boiling, the eggs coagulate, and bring the impetities to the surface of the boiler, which are of course to be carefully skimmed off. The acid must be immediately withdrawn from the boiler, as it acts on iron." PYROLITHIC ACID. "When uric acid concretions are distilled in a retort, silvery white plate subling. These are pyrolithate of ammonia. When then

solution is poured into that of subacetate of lead, a py rolithate of lead falls, which, after proper washing, is to be shaken with water, and decomposed by sulphuretted hydrogen gas. The supernatant liquid is now a solu-

tion of pyrolithic acid, which yields small acicular crystals by evaporation. By heat, these melt and sub-lime in white needles. They are soluble in four parts of cold water, and the solution reddens vegetable blues. of cold water, and the solution reddens vegetable blues. Boiling alkohol dissolves the acid, but on cooling it deposites it, in small white grains. Nitric acid dissolves without changing it. Hence, pyrolithic is a different acid from the hilne, which, by nitric acid, is convertible into purpurate of ammonia. The pyrolithate of line crystaltizes in statactics which have a bitter and slightly acrid taste. It consists of 91.4 acid + 8.6 line. slightly acrid taste. It consists of 91.4 acid + 8.6 lines. Pyrolithate of barytes is a nearly insoluble powder. The salts of potassa, soda, and ammonia, are soluble, and the former two crystallizable. At a red heat, and by passing it over ignited oxide of copper, it is decom-posed, into oxygen 44.32, carbon 28.29, azote 16.84, hy-drogen 10.7

drogen 10."
PYROMALIC ACID. "When malic or sorbic acid for they are the same, is distilled in a retort, an acid sublimate, in white needles, appears in the neck of the retort, and an acid liquid distils into the receiver. This liquid, by evaporation, affords crystals, constituting a peculiar acid to which the above name has been given.

They are permanent in the air, melt at 1180 Fahr., and on cooling, form a pearl-coloured mass of diverging nee-When thrown on red-hot coals, they completely evaporate in an acrid, cough-exciting smoke. Exposed to a strong heat in a retort, they are partly sublimed in needles, and are partly decomposed. They are very soluble in strong alkohol, and in double their weight of water, at the ordinary temperature. The solution reddens vegetable blues, and yields white flocculent precipitates with acetate of lead and nitrate of mercury; but produces no precipitate with lime-water. By mixing it with barytes water, a white powder falls, which is redissolved by dilution with water, after which, by gentle evaporation, the pyromalate of bartes may be obtained in silvery plates. These consist of 100 acid, and 185.142 barytes, or in prime equivalents, of 5.25.+9.75." evaporate in an acrid, cough-exciting smoke. Exposed

PYROMETER. (From wup, fire, and μετρον, measure.) To measure those higher degrees of heat to which the thermometer cannot be applied, there have been other instruments invented by different philosophers: these are called pyrometers. The most celebrated instrument of this kind, and which has been adopted into general use, is that invented by the late ingenious Mr. Wedgwood.

This instrument is also sufficiently ideal.

This instrument is also sufficiently simple. It consists of two pieces of brass fixed on a plate, so as to be 6-10ths of an inch asunder at one end, and 3-10ths at o toris of an inch assumer at one end, and a rotus at the other; a scale is marked upon them, which is di-vided into 240 equal parts, each 1-10th of an inch; and with this his gauge, are furnished a sufficient number with this his gauge, are immined a siniterin humor of pieces of backed clay, which must have been prepared in a red heat, and must be of given dimensions. These pieces of clay, thus prepared, are first to be applied cold, to the rule of the gauge, that there may no mistake take place in regard to their dimensions. Then any one of them is to be exposed to the heat which is to be measured, till it shall have been completely penetrated by it. It is then removed and applied to the gauge. The difference between its former and its present dimensions will show how much it has shrunk; and will consequently indicate to what degree the intensity of the heat to which it was exposed amounted.

tensity of the heat to which it was exposed amounted. High temperatures can thus be ascertained with accuracy. Each degree of Wedgwood's pyrometer is equal to 130° of Fahrenheit's.

PYROMUCIC ACID. (Acidum pyromucicum; because it was obtained from the distillation of gum.)
Pyromucous acid. "This acid, discovered in 1818, by Houton Labillardiere, is one of the products of the dis-tillation of mucic acid. When we wish to procure it, the operation must be performed in a glass retort furnished with a receiver. The acid is formed in the brown liquid, which is produced along with it, and which contains water, acetic acid, and empyreumatic oil; a very small quantity of the pyromucic acid remaining attached to the vault of the retort, under the form of crystals. These crystals being coloured, are form of crystais. These crystais being coloured, and added to the brown liquor, which is then diluted with three or four times is quantity of water, in order to throw down a certain portion of oil. The whole is next filtered, and evaporated to a suitable degree. A great deal of acetic acid is volatilized, and then the new acid crystallizes. On decanting the mother wa-

ters, and concentrating them further, they yield ergs [ liated sublimate, which is the pyrotartaric acid, pertals anew; but as these are small and yellowish, it is necessary to make them undergo a second distillation render them susceptible of being perfectly purified by crystallization. 150 parts of mucic acid furnish about 60 of brown liquor, from which we can obtain 8 to 10 of pure pyromucic acid.

This acid is white, inodorous, of a strongly acid

taste, and a decided action on litmus. Exposed to heat in a retert it melts at the temperature of 256° F., then volatilizes, and condenses into a liquid, which passes on cooling into a crystalline mass, covered with very It leaves very slight traces of residuum fine needles.

in the bottom of the retort.

On burning coals, it instantly diffuses white, pun-On burning coats, it instantly diffuses white, pur-gent vapours. Air has no action on it. Water at 600 dissolves one twenty-eighth of its weight. Boiling wa-ter dissolves it much more abundantly, and on cooling abandons a portion of it, in small elongated plates, which cross in every direction."

Pyro mucous acid. See Pyromucic acid. PYROPE. A subspecies of dodecahedral garnet, of a dark blood-red colour. It comes from Saxony, and is highly esteemed as a gem

PYROPHORUS. An artificial product, which takes fire or becomes ignited, on exposure to the air. prepared from alum by calcination, with the addition of various inflammable bodies.

A VATIONS MINIMINATE OF PHYROPHYSALITE. See Physalite.
PYROPHYSALITE. See Physalite.
PYROSIS. (From wegoo, to burn.) Pyrosis success, of Sauvages. Cardialgia sputatoria, of Lingus. A disease called in Scotland the water-bush; ciea, of Sauvages. in England, black water. A genus of disease in the class Neuroses, and order Spasmi, of Cullen; known by a burning pain in the stomach, attended with co-pious eructation, generally of a watery insipid fluid. PVROSMALITE. A liver-coloured mineral, which

comes from Wermeland.

PYROTARTARIC ACID. (. leidum pyro-tartariso called because obtained by the distillation of tartaric acid.) "Into a coated glass retort introduce tartar, or rather tartaric acid, till it is half full, and fit to it a tubulated receiver. Apply heat, which is to be gradually raised to reduces. Pyro tartatic acid of a brown colour, from impurity, is found in the liquid products. We must filter these through paper previously wetted, to separate the oily matter. Saturate the liquid with carbonate of potassa; evapo Saturate the riquin win cathesiate persists, experience of retending the process of evaporation, solution, and filtration, several times, we succeed in separating all the oil. The day sait is then to ceed in separating all the oil. be treated in a glass retort, at a moderate heat, with dilute sulphuric acid. There passes over into the receiver, first of all, a liquor containing evidently acetic acid; but towards the end of the distillation, there is condensed in the vault of the retort, a white and fotectly oure.

has a very sour taste, and reddens powerfully the If has a very sent taste, and reduces powerfully the tincture of turnsole. Heated in an open vessel, the acid uses in a white snoke, without leaving the charcoady residuum which is left in a retort. It is very socoary resonant winto's real first bear. It is very so-lable in water, from which it is separated in crystally by spontaneous evaporation. The bases combine with it, forming pyrotartarates, of which those of potassa, it, torning pertolationals, or virin mose of polassa, soda, ammona, barytes, strontites, and lime, are very soluble. That of polassa is deliquescent, soluble in alkohol, capable of crystallizing in plates, like the acc-This pyrotartarate precipitates both tate of potassa. This pyrotartarate precipitates both accetate of lead and pitrate of mercury while the acid itself precipitates only the latter. Rose is the discoverer of this acid, which was formerly confounded with the acetic."

Puro-tartarous acid. See Pyro-tartaric acid.

Pyro-tecturia. (From συρ, line, and τεχνη, an art.)

Chemistry, or that art by which the properties of bodies are examined by fire.

Pyro rica. (From wopow, to burn.) Caustics. PYROXENE. See Augite.

PYRUS. The name of a genus of plants in the Linnaran system. Class, Icosandria; Order, Penta-

PYRUS COMMUNIS. The pear-tree. The fruit is analogous to that of the apple, but more delicately flavoured. Its juice, when fermented, forms perry. PYRUS CYDENTA. The systematic name of the quincetree. The fruit is termed Cydonium malum, or quince.

tree. The fruit is termed Cydonium maticin, of quince. The tree which alloted this fruit is the Pyraus-folias integerrimis, floribus, solitariis, of Linnaus. Quince seeds are directed by the London College to be inade into a decetton, which is recommended in aphthous affections, and excoriations of the mouth and

Pyrus Malus. The systematic name of the appletree. The common crab tree is the parent of all the vast variety of apples at present cultivated. Apples, in general, when ripe, afford a pleasant and easily digestible fruit for the table; but, when the stomach is weak, they are very apt to remain unaltered for some days, and to produce dyspepsia. Sour fruits are to be considered unwholesome, except when hoised or baked, and rend red soft and mellow with the addition

PYL LCUM. (From ωυον, pus, and ελκω, to draw.) An instrument to extract the pus from the cavity of any sinuous ulcer.

N Stations there.

Pyv' Ris. See Pyotoria.

Pynaca'stria. (From ωυζος, box, and ακανθα, a torn.) The barberry, or thorny box tree.

thorn.) The barberry, or thorny box tree.

PY XIS. (P<sub>parts</sub>, dis. f., so called because it was made with the πεξος, or box-tree.) Properly a box; but, from its resemblance, the cavity of the hip-bone, or acetabulum, has been sometimes so called.



P. An abbreviation of quantum placet, as much ter major to that of the trochanter minor. Its use is to

as you please.
Q. S. The contraction for quantum sufficit, a sufficient quantity.

An abbreviation of quantum vis, as much as you will.

Often used QUADRANGI'LUS. Quadrangular Often used to express form of muscles, leaves. & The recepta cle of the Dorstenia houstonii, and contrayerva, is quadrangulara

QUADRATUS. (From quadra, square: so called from its figure.) See Depressur labit inferioris. QUADRATUS FEMORIS. Tuber ischnitzischinaterien,

CEARRATUS FEMORIS. Taber oschatrockenterien, of Dunas. A muscle of the thigh, sinusted on the outside of the pelvis. It is a flat, thin, and fleshy muscle, but not of the shape its name would seem to indicate. It is situated immediately betow the gemini. It arises tendinous and fleshy from the external sur-face and lower edge of the tuberosity of the ischium, and is inserted by short tendinous fibres into a ridge which is seen extending from the bases of the trochan- they serve to support the spine, and perhaps to bend it

bring the os femoris outwards.

OCADRATES GENE. See Platysma-myoides.

QUADRATUS LABIT INFERIORIS. See Depressor

QUADRATIN LUMBORUM. Quadratus, seu lumboris externus, of Winslow. Ilio-lumbicostal, of Dumas. A muscle situated within the cavity of the abdomen. This is a small, flat, and oblong muscle: that has gotten the name of quadratas, from its shape, which is that of an irregular square. It it stuated laterally, at the lower part of the spine. It arises tendinous and fleshy from It arises tendinous and fleshy from about two inches from the posterior part of the spine of the thum. From this broad origin it ascends obliquely inwards, and is inserted into the transverse processes of the four superior lumbar vertebræ, into the lower edge of the last rib, and, by a small tendon, that passes up under the diaphragm into the side of the last vetebra of the back. When this muscle acts singly, it draws the loins to one side; when both muscles act

forwards. In laborious respiration, the quadratus lum- | from the bark in being less intensely bitter; the latter borum may assist in pulling down the ribs.

QUADRATUS MAXILLE INFERIORIS. See Platysmamyordes

THOUSE.

QUADRATUS RADII. See Pronator radii-quadratus.
QUADRATUS (From quatuor, four, and juguon, a you-horse cart.

["QUADROXALATE OF POTASSA. This may be com-PAGEOROXALATE OF POTASSA: The may be supposed by several methods. It was formed by Dr. Wolkaston by digesting the bin-oxalate in nitric or muriatic acid. The alkali is divided into two parts, one of which unites with the immeral acid, and the other half remains in combination with the oxalic acid. forms beautiful crystals, which may be obtained pure

forms ocautiful crystals, which may be obtained pure by solution, and a second crystallization. "If three parts by weight of the quadroxalate be decomposed by burning, and the alkali, which is thus disengaged, be mixed with a solution of one part of the crystallized salt, the latter is exactly neutralized. Hence the quadroxalate contains four times the acid that exists in the ovalate. The analysis of this class of salts, from which Dr. Wollaston drew a striking ex-emplification of the law of simple multiples discovered by Mr. Dalton, may be recapitulated as follows:

"Estimating, therefore, from the weights of their

atoms, 100 of potassa should be united, in the oxalate, with 75 of acid; in the bin-oxalate with 150; and in the quadroxalate with 300."—Web.'s Manual of Chc-

QUARTA'NA. mustry, A., Quartana. A fourth-day ague. Of this species of ague, as well as the other kinds, there are several varieties noticed by authors. The most frequent of these are, J. The double quartan, with two paroxysms, or fits, on the first day, none on the second and third, and two again on the fourth day. 2. The double quartan, with a paroxysm on the day. 2. The double quartan, with a paroxysm on the first day, another on the second, but none on the third.

3. The triple quartan, with three paroxysms every fourth day. 4. The triple quartans with a slight paroxysm every day, every fourth paroxysm being similar. See also Februs intermeters.

QUARTATION. An operation, in assaying, by which the quantity of one thing is made equal to a fourth part of the quantity of another thing.

QUARTY. This name is given to a genus of minerals which Jameson divides into two species, rhombolidal quartz, and indivisible quartz.

boidal quartz, and indivisible quartz.

boidal quartz, and indivisible quartz.

The rhomboidal contains fourteen subspecies. 1.

Amethyst. 2. Rock crystal. 3. Milk quartz, which is of a rose red, and milk-white colour. It is found in Bavaria. 4. Common quartz of many colours, and is one of the most abundant minerals in nature. 6. Cat's eye. 7. Fibrous quartz of a grayish or yellowish white colour, found on the banks of the Moldan, in Bohemia. 8. Iron flint. 9. Hornstone. 10. Flinty slate. 11. Flint. 12. Calcedony. 13. Heliotrope. 14. Jasper. The indivisible quartz has nine subspecies. 1. Floatstone. 2. Quartz, or silicous sipine, of which there

Quartz or siliceous sinter, of which there are three kinds, the common, opaline, and pearly. 3.

Hyalite. 4. Opal. 5. Menilite. 6. Obsidian. 7.

Pitelistone. 8. Pearlstone. 9. Pumicestone.

[QUARTE RESIDITE COMMUNE. See Halls-opal. A.]

QUASSIA. (From a slave of the name of Quassi,

who first used it with uncommon success as a secret remedy in the malignant endemic fevers which frequently prevailed at Surinam.) 1. The name of a genus of plants in the Linnaan system. Class, De-cambria; Order, Monogenia.

2. The pharmacopeial name of the bitter quassia.

See Quassia amara.

Ourssia AMARA. The systematic name of the bit-Ser quassia andra. Quassia andra. Quassia andra. The systematic name of the bitter quassia—forbus hermaphroditis, foliis imparipimatis, foliois oppositis, sessitious, petiolo articulato alato, floribus racemosis, of Limaeus, are all compehended in the catalogues of the materia medica. The tree is a native of South America, particularly of Surinam, and also of some of the West India islands.

The roats are neglective linguous: they may be medically and the property of the property of the medical catalogues.

The roots are perfectly ligneous; they may be medi-cally considered in the same light as the wood, which is now most generally employed, and seems to differ tending those diseases. It is said also that it soon

is therefore thought to be a more powerful medicine. Claussia has no sensible odour; its taste is that of a pure bitter, more intense and durable than that of a almost any other known substance; it imparts its virtues more completely to watery than to spirituous menstrua, and its infusions are not blackened by the addition of authority of the complete o dition of sulphate of iron. The watery extract is from a sixth to a ninth of the weight of the wood, the spirituous about a twenty-fourth. Quassia, as before observed, derived its name from a negro named Quassi, who employed it with uncommon success as a secret remedy in the malignant endemic fevers, which frequently prevailed at Surinam. In consequence of a valuable consideration, this secret was disclosed to Daniel Rolander, a Syede, who brought specimens of the quasta wood to Stockholm, in the year 1756; and since then the effects of this drug have been generally tried in Europe, and numerous testimonies of its efficacy publication. lished by many respectable authors. Various experiments with quassia have likewise been made, with a view to ascertain its antiseptic powers; from which it appears to have considerable influence in retarding the tendency to putrefaction; and this, Professor Murray thinks, cannot be attributed to its sensible qualities, as it possesses no adstringency whatever; nor can it depend upon its bitterness, as gentian is much bitterer, yet less antiseptic. The medicinal virtues ascribed to quassia upon its bitterness as general virtues ascribed to quassia are those of a tonic, stomachic, antiseptic, and febriuge. It has been found very effectual in restoring digestion, expelling flatulencies, and removing habitual costiveness, produced from debility of the intestines, and common to a sedentary life. Dr. Lettsom, whose extensive practice gave him an opportunity of trying the effects of quassia in a great number of cases, says, the leading of the effects of productions of the production o "In debility, succeeding febrile diseases, the Peruvian bark is most generally more tonic and salutary than any other vegetable hitherto known; but in hysterical any other vegetance intherto known; but in hysterical adony, to which the female sex is so prone, the quassia affords more vigour and relief to the system than the other, especially when united with the vitriolum album, and still more with the aid of some absorbent." In dyspepsia, arising from hand drinking, and also in discretions, the behavior established. In dyspepsia, arising from haid dfinking, and also in diarrheas, the doctor exhibited the quassia with great success. But with respect to the tonic and febrifuge qualities of quassia, he says, "I by no means subscribe to the Limagan opinion, where the author declares, 'me quidem judice chinchinan longe superat," It is very well known, that there are certain pecullarities of the air, and idnosyncrasies of constitution, unfavourable to the exhibition of Peruvian bark, even in the wontraine to the extending of fever; and writers have repeatedly noticed it. But this is comparatively rare. About midsummer, 1785, Dr. L. met with several instances of low remittent and nervous fevers, wherein the bark uniformly aggravated the symptoms, though given in intermissions the most favourable to its success and wherein quassia, or snakeroot, was successfully substituted. In such cases, he mostly observed, that there was great congestion in the hepatic system, and the debility at the same time discouraged copious evacuations. And in many tovers without evident remissions to warrant the use of the bark, while at the time sions to warrant the use of the bark, while at the time increasing debility began to threaten the life of the patient, the Doctor found that quassia, or snakeroot, singly or combined, upheld the vital powers, and promoted a critical intermission of fever, by which an opportunity was afforded for the bark to effect a cure. trimay be given in infusion, or in pills made from the watery extract; the former is generally preferred, in the proportion of three or four scruples of the wood to twelve ounces of water.

The systematic name of the QUASSIA SIMAROUBA. Question of the systematic name of the simarouba quassia. Simarouba; Simarouba; Euonymus; Quassia—furdus monoicis, folios abrupte pinatis, foliodis alternis subpetiolatis petiolo mado floribus particulatis, of Linneus. The bark of this tree, which is met with in the shops, is obtained from the roots; and, according to Dr. Wright of Jamaica, it is roots; and, according to Dr. Weight of Jamaica, it is rough, scally, and warded; the inside, when fresh, is a full yellow, but when dried, paler; it has but little smell; the taste is buter, but not disagreeable. It is esteemed in the West Indies, in dysenteries and other fluxes, as restoring tone to the intestines, allaying their spasmodic notions, promoting the secretions by urine and perspiration, and removing lowness of spirits at-

part, separates itself from the caseous part. When I part, separates itself from the caseous part. When these parts appear perfectly distinct, pour the whole upon a strainer, through which the whey will pass, while the curds remain behind. This whey is always rendered somewhat whitish, by a very small and much divided portion of the caseous part; but it may be separated in such'a manner, that the whey will re he separated in secretal manner, that the whey will remain limpid and colourless, and this is what is called clarifying it. Put into a basin the white of an egg, a glass of the secund of milk, and a few grains of terraric acid in powder; whip the mixture with an ozier twig, and, having added the remainder of the unclarity. fied whey, place the mixture again over the fire until it begins to boil. The tartaric acid completes the coagulation of the white part of the milk which remains; agulation of the white part of the links which remains, the white of egg, as it becomes hot, coagulates and envelopes the caseous part. When the whey is clear, filter it through paper: what passes will be pertectly limpid, and have a greenish colour. This is clarified

RENUENS. (From renuo, to nod the head back in sign of refusal: so called from its office of jerking back the head.) A muscle of the head.

the head.) A muscle of the head. REPANDUS. Repand; wavy: a leaf is so called which is bordered with many acute angles, and small segments of circles alternately; as that of the Menyanthes nympharoides.

REPELLE'NT. (Repellens; from repello, to drive back.) Applications are sometimes so named which make diseases recede, as it were, from the surface of

REPENS. Creeping; often used in botany: caulis epens, one that creeps along the earth, as that of the Ranunculus repens. Applied to a root, it means run-ning transversely, and here and there giving off new plants; as that of the Glycyrrhiza glabra, and Sambucus chulus

All matter possesses a power which osition to attraction. This agency, REPULSION. is in constant opposition to attraction. This agency, which is equally powerful and equally obvious, acts an important part in the phenomena of nature, and is called the power of repulsion

That such a force exists, which opposes the approach of bodies towards each other, is evident from number

Newton has shown, that when a convex lens is put upon a flat glass, it remains at a distance of the one hundred and-thrity seventh part of an inch, and a very considerable pressure is required to diminish this distance; nor does any force which can be applied bring them into actual mathematical contact. may indeed be applied sufficient to break the glasses into pieces, but it may be demonstrated that it does not dimmish their distance much beyond the one-thou-saudth part of an inch. There is, therefore, a repulsive force, which prevents the two glasses from touching each other.

Boscovich has shown, that when an ivory billiardball sets another in motion, by striking against it, an equal quantity of its own motion is lost, and the ball rest begins to move while the other is still at a

distance.

There exists, therefore, a repulsion between bodies this repulsion takes place while they are yet at a dis tance from each other; and it opposes their approach

towards each other.

The cause or the nature of this force is equally inscrutable with that of attraction, but its existence is undoubted: it increases, as far as has been ascertained. inversely as the square of the distance, consequently at the point of contact it is infinite.

The following experiments will serve to prove the

energy of repulsion more fully.

Experiment.—When a glass tube is immersed in water, the fluid is attracted by the glass, and drawn up into the tube; but, if we substitute mercury instead of water, we shall find a different effect. If a glass tube of any bore be immersed in this fluid, it does not rise, but the surface of the mercury is considerably below the level of that which-surrounds it, when the diameter of the tube is very small.

In this case, therefore, a repulsion takes place between the glass and the mercury, which is even considerably greater than the attraction existing between the particles of the mercury; and hence the latter cannot rise in the tube, but is repelled, and becomes depressed.

Experiment. - When we present the north pole of & magnet A, to the same pole of another magnet B, sue pended on a pivot, and at liberty to move, the magnet benden on a providing the state of the state

In this case, there is evidently some agency, which opposes the approach of the north poles of A and B, which acts as an antagonst, and causes the moveable magnet to retire before the other. There is, therefore, a repulsion between the two magnets, a repulsion which increases with the power of the magnets, which may be made so great, that all the force of a strong man is insufficient to make the two north poles touch each other. The same repulsion is equally obtouch each other. The same repulsio vious in electrical bodies, for instance

Experiment.-If two small cork balls be suspended Experiment.—It two small cork bails be suspended from a body, so as to touch one another, and if we charge the body in the usual manner with electricity, the two cork bails separate from each other, and stand at a distance proportional to the quantity of electricity with which the body is charged; the balls, of course, residence to the course.

repel each other.

Experiment.—If we rub over the surface of a sheet of paper the fine dust of lycopodium, or puff ball, and then let water fall on it in small quantities, the water will instantly be repelled, and form itself into distinct drops, which do not touch the lycopodium, but roll over it with uncommon rapidity. That the drops do over it with uncommon rapidity. That the drops do not touch the lycopodium, but are actually kept at a distance above it, is obvious from the copious reflection of white light.

Experiment.-If the surface of water contained in a basin be covered over with lycopodium, a solid substance, deposited at the bottom of the fluid, may be taken out of it with the hand, without wetting it. this case, the repulsion is so powerful as to defend the hand completely from the contact of the fluid.

RES. A thing.

RES NATURALES. The naturals. According to Boer-haave, these are life, the cause of life, and its effects. These, he says, remain in some degree, however disor dered a person may be.

See Non-naturals. RES NON-NATURALES.

RESEDA. (From resedo, to appease: so called from its virtue of allaying inflammation.) The name from its virtue of allaying ionanimation.) The name of a genus of plants in the Linnman system. Class, Dodecandria; Order, Trigrynia.

2. The name, in some pharmacopæias, of the dyers' weed. See Reseal Introla.

RESEND LUTEOLA. The systematic name of the dyers' weed. Dioscorides mentions it as useful in

Jaunaice.

RESIN. Resina. The name resin is used to denote solid inflammable substances, of vegetable origin, soluble in alkohol, usually affording much soot by their combustion. They are likewise soluble in oils, but not at all in water; and are more or less acted upon by the alkalies.

All the resins appear to be nothing else but volatile oils rendered concrete by their combination with oxygen. The exposure of these to the open air, and the decomposition of acids applied to them, evidently prove this conclusion.

There are some among the known resins which are very pure, and perfectly soluble in alkohol, such as the balsam of Necca and of Capivi, turpentines, tacamahaca, elemi: others are less pure, and contain a small portion of extract, which renders them not totally soluble in alkohol; such are mastic, sandarach, guaiacum, labdanum, and dragon's blood.

The essential properties of resin are, being in the solid form, insoluble in water, perfectly soluble in alkohol, and in essential and expressed oils, and being incapable of being volatilized without decomposition.

Resins are obtained chiefly from the vegetable king-dom, either by spontaneous exudation, or from incisions made into vegetables affording juices which contain this principle. These juices contain a portion of essential oil, which, from exposure to the air, is either essential oil, which, from exposure to the voluntial oil, which, from exposure to the voluntial of the converted into resinous matter, or some voluntial oil of the converted by distillation. In some times the oil is abstracted by distillation, plants the resin is deposited, in a concrete state, in the interstices of the wood, or other parts of the plant,

Resins, when concrete, are brittle, and have generally a smooth and conchoidal fracture; their lustre is peculiar, they are more or less transparent and of a

["QUERCUS TINCTORIA. Black oak, This is also a native species, the bark of which affords the extract known to dyers, by the name of quercitron. Its properties are similar to those of the preceding. Both are perties are similar to those of the preceding. Both are very common trees, and are properly substituted for the quercus robur, of European Dispensatories, which is not found here."—Big. Mat. Med. A.]

[QUERCI AMERICANE. American oaks These have

been described and delineated by Andrew Michaux, in his history of the oaks of America. He describes twenty-nine species and varieties of oaks growing spontaneously in North America. He arranges them

in the following manner, viz.

"Methodical disposition of American oaks.
SECTION I.

Quercus, foliis adultæ plantæ muticis; fructu pedun-culato; fructificatione annua:—Specie 6ta bienni. Division 1. Foliis—lobatis.

Species 1. Quercus obtusiloba, upland white oak, iron

oak. 2. Q. macrocarpa, over cup, white oak.
3. Q. lyrata, water white oak.

4. Q. alba—variety, pennatifida, | white oaks. Division 2.

Foliis-dentatis

Species 5. Q. Prinus-var. palastris-swamp chesnut

monticula-mountain chesnut oak, rock oak. acuminata — narrow leaf

chesnut oak. pumila-Chinquapin oak.

tomentosa-Illinois oak. DIVISION 3.

Foliis-integris.

Species 6. Quercus virens .- Live oak of Carolina. SECTION II.

Quercus, foliis adultæ plantæ setaceo-mucronatis; fructu subsessili; fructificatione bienni. Division 1.

Foliis integris.

Species 7. Q. Phellos-var. sylvatica, willow oak. maritima, sea willow oak.

Species 8. Q. Cinerea—upland willow oak.

9. Q. Imbricaria—shingle willow oak. 10. Q. Laurifolia-swamp willow oak.

obtusiloba. Division 2. Foliis-breviter lobatis.

Folis—breviter ionitis.

Species 11. Q. Aquatica—water oak.

12. Q. Nigra—black oak.

13. Q. Tinctoria—var. angulosa, great black oak, Champlain black oak, oak.

sinuosa-quercitron oak

Species 14. Q. Triloba-downy black oak.

DIVISION 3.

Foliis profunde multifidis. Species 15, Q. Banisteri-running downy-oak.

16. Q. Falcata-downy red-oak.

17. Q. Catesbæi—sandy red-oak: 18. Q. Coccinea—scarlet-oak. 19. Q. Palustris—swamp red-oak.

20. Q. Rubra-red-oak.

"We have been the more particular to exhibit this systematic arrangement of the oaks, because we believe it will be welcome to our readers, and enable them better to understand this difficult genus of plants.

— M. d. Repos. A.]
QUESNAY, Francis, was born near Paris in 1694.
Though of humble parentage, and almost without education, he displayed an extraordinary zeal for knowledge, and after studying medicine in the French me-tropolis, he settled at Mantes. Having ably controvert-ed the doctrines of Silva respecting blood-letting, he was appointed secretary to the Academy of Surgery; but the duties of this office having impaired his health, but the duties of this once having impaired his health, he graduated in physic, and was made consulting physician to the king. He was subsequently honoured with letters of nobility, and other marks of royal favour; and became a member of several learned societies. He died in 1774. He left several works, which display much research and observation, but with too great partiality to hypothesis. Besides the essays in favour of bleeding in many diseases, his preface to the Memoirs of the Academy of Surgery, gained him con-siderable applause: as likewise his Researches into the Progress of Surgery in France, though the accuracy of some of his statements was controverted.

some of his statements was controverted.
Quick: grass. See Triticum repens.
Quick: hume. See Lime.
QUICKSILVER. See Mercury.
QUID PRO QUO. These words are applied the same as succedaneum, when one thing is made use of to supply the defect of another.
QUIESUENT. Quiescens. At rest.
Quiescent offinity. See Affinity quiescent.
QUINA UNA. The Peruvian bark.
QUINCE See Pyrus cydonia.
Quinac, Bengal. See Erateva marmelos.
QUININY. See Cynanche.
QUINIA. See Cinchonina.
QUININA. See Cinchonina.

QUININA. See Cinchonina.

QUININE SULPHAS. Sulphate of quinine. Sulphate of cinchonina. A saline combination of sulphuric acid, with the active principle of cinchona bark. See Cinchonina.

Quinner, sulphate of. See Quining sulphas.
QUINQUEFOTAUM. (From quinque, five, and
folium, a leaf: so called because it has five leaves on
each foot-stalk.) Pentaphyllum. Cinquefoil, or fiveleaved grass. See Potentilla reptans.

QUOTIDIAN. See Febris intermittens.

## R

Ron R. This letter is placed at the beginning of a prescription, as a contraction of recipe, take:
thus, R. Magnes, 3 j. signifies, Take a drachm of magnesia. "In ancient times, such was the supposed iman. See Hydrophobia.
RABIES CANINA. See Hydrophobia.
RACE MUS. (Racemus, i. m.; from ramus.) A nesia. "In ancient times, such was the supposed importance," says Dr. Paris, in his most excellent work on pharmacology, "of planatory influence, that it was usual to prefix a symbol of the planet under whose reign the ingredients were to be collected; and it is not perhaps generally known, that the character which we at this day place at the head of our prescriptions, and which is understood and is supposed to mean recipe, is a relict of the astrological symbol of Jupiter, as may be seen in many of the older works on pharmacy."

RABBIT. A well known animal of the hare kind: the Lepus cuniculus of Linnaus, the flesh of which is

tender, and easy of digestion.

RA'BIES. (From rabio, to be mad.) Madness.

Generally applied to that disease of a dog, under which

in man. See Hydrophobia.
RABIES CANINA. See Hydrophobia.
RACE MUS. (Racenus, i.m.; from ramus.) A raceme or cluster. A species of inflorescence, consisting of a cluster of flowers, rather distant from each

ing of a cluster of flowers, rather distant from each onlier, each on its own proper stalk, the tops of the lower ones not coming near to the tops of the upper ones, as in a corymb, and all connected by one common stalk; as a bunch of currants. It is therefore a kind of pedunculated spike.

From the dwistion of the common stalk, it is deno-

minated.

1. Simple, not having any branches; as in Ribes rubra, and Acer pseudo-platanus.
2. Compound, being branched; as in Vitis vini-

3. Conjugate, two clusters going from the end of the common peduncle.

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Actea racemosa.

5. Unilateral, the proper stalks of the flowers proceeding from one side only of the common stalk; as in

Pyrola secunda.

6. Second, the proper stalks of the flowers come from every part of the common stalk, yet they all look to one side only; as in Andromeda racemosa, Teucrium scorodonia, &c.

From the direction of the racemus.

Ercctus; as in Chenopodium album, Ribes alpinum, and Astragalus austriacus.

8. Pendulus; as in Cytisus laburnum.
9. Larus, easily bent; as in Celosia trigynia, and Solanum carolinense.

10. Strictus, bent with difficulty; as in Ononis cernua.

From its vesture,

11. Nudus; as in Vaccinium legustrinum.
12. Ptlosus; as in Ribes nigrum.
13. Folestus; as in Chenopodium ambrosioides.

13. Fatertus; as in Components ammossiones.
14. Bracteatus; as in Andromeda racemosa.
RACIHA\* LGIA. (From ραχις, the spine, and aλγος, pain) A pain in the spine. It was formerly applied to several species of cohe which induced pain in the back. RACHIS.

See Rhachis.

RACHITIS. (Rachits, idis. f.; from pages, the opine of the back; so called because it was supposed to originate in a fault of the spinal marrow.) Cyrtonosus. The English disease. The prekets. A genus of disease in the Class Cacheria, and Order Intumes of disease in the Class Cacherra, and Order Intemes-centica, of Cullen: known by a large head, prominent forchead, protruded sternum, flattened ribs, big belly, and emaciated limbs, with great debility. It is usually confined in its attack between the two periods of nine months and two years of age, setdom appearing sooner than the former, or showing itself for the first time, after the latter set. the latter period. The muscles become flaceid, the head enlarges, the carotids are distended, the limbs waste away, and their cophyses increase in bulk. The bones and spine of the back are variously distorted; disinclination to muscular exertion follows; the abdomen swells and grows hard; the shoots are frequent and loose; a slow lever succeeds, with cough and difficulty of respiration; atrophy is continued, and death cusues. Frequently it happens that nature restores the general health, and leaves the limbs dis-

After death, the liver and the sphen have been found enlarged and scirchous; the mesenteric glands in durated, and the lungs either charged with vomicas, or adhering to the pleura; the bones soft, the brain flac-cid, or oppressed with lymph, and the distended bowels loaded most frequently with slime, sometimes with

It is remarkable, that in the kindred disease, which It is remarkable, that in the annual of infants, we have many of the same symptoms and the same appearances nearly after death. They who perish by pearances nearly after death. They who perish by this disease, says Hollman, have the mesenteric glands enlarged and scirrhous; the liver and spleen obstructed, and increased in size; the intestines are much inflated, and are loaded with black and field matters, and the muscles, more especially of the abdomen, waste away.

In the treatment of rickets, besides altering any improprieties in the regimen, which may have co operated in producing it, those means should be employed, by which the system may be invigorated. Tonic mediwhich the system may be invigorated. Tome medi-cines are therefore proper, particularly chalybeates, which are easily given to children; and the cold bath may be essentially beneficial. The child should be regularly well exercised, kept clean and dry, and a pure air selected; the food nutritious and easy of digestion. When the appetite is much impaired, an occasional gentle emetic may do good; more frequently tonic aperients, as rhubarb, will be required to regulate the bowels; or sometimes a dose of calomel in gross habits Of late, certain compounds of lime have been strongly recommended, particularly the phosphate, which is the earthy basis of the bones; though it does not appear likely to enter the system, unless rendered soluble by an excess of acid. Others have conceived the disease to arise from an excess of acid, and therefore recom-mended aikalies; which may certainly be useful in correcting the morbid prevalence of acid in the primaviæ, so frequent in children. When the bones are

4. Aggregate, several being gathered together; as in | inclined to bond, care must be taken not to throw the weight of the body too much upon them.

weight of the body for much upon them.

RACO SIS. From passes, a rag., A ragged exertation of the relaxed sciotum.

RADCLIFFE, Johns, was born at Wakefield, Yorkskire, in 1650. He went to Oxford at the age of 15; and having determined upon the medical profession, he overed rapidly through the paging passes. passed rapidly through the preliminary studies, though with very little profoundness of research; and having taken the degree of bachelor of medicine in 1675, he immediately began to practise there. He professed to pay very little regard to the rules generally followed, which neutrally drew upon him the cumity of the old practitioners; yet his vivacity and talents procured him a great number of patients, even of the highest rank. In 1684, he removed to London, having taken has doctor's degree two years before and his success
was unusually rapid; in the second year he was appointed physician to the princess Anne of Denmark; and after the Revolution, he was consulted by king William. By his rough independence of spirit and freedom of language, however, he ultimately lost all favour at court; though he is said to have been still privately consulted in cases of emergency. In 1703, he had an attack of pleurisy, which had nearly proved fatal from his own imprudence. He continued, after his recovery, in very extensive practice, notwithstanding the captice which he continually displayed: but his declining to attend queen Anne in her last illness, though it does not appear that he was sent for officially, though if does not appear that he wassent for officially, excited the popular resentment strongly against him; and his apprehensions of the consequences are supposed to have accelerated his own death, which happened about three months after, in 1714. He was buried in St. Mary's church at Oxford. He founded a noble library and infirmary at that university; and also endowed two travelling medical fellowships, with an annual moone of 300th attached to each. It does not appear that he ever attempted to write; and, indeed, he is believed to have been very little conversant with books: we the universal regulation which he sant with books; yet the universal reputation which he acquired and maintained, notwithstanding his cauriclous conduct, seem to sanction the testimony of Dr. Mead, that "he was deservedly at the head of his profession, on account of his great medical penetration and experience."

RADIAL. (Radialis; from radius, the name of a bone., Belonging to the radius.

RADIAL ARTERY. A branch of the humeral artery that runs down the side of the

RADIALIS EXTERNUS BREVIOR. See Extensor carni

RADIALIS EXTERNUS LONGIOR. See Extensor carpi radialis longior.
RADIALIS EXTERNUS PRIMUS. See Extensor carpi

Adialis longior

RADIALIS INTERNUS. See Flexor carpi radialis. RADIALIS SECUNDES. See Extensor carpi radialis

hiercrari.

RADICAL. In chemistry, this term is applied to that which is considered as constituting the distinguishing part of an acid, by its union with the acidifying principle or oxygen, which is common to all acids. Thus sulphur is the radical of the sulphuric and sulphurious acids. It is sometimes called the base of the acid; but base is a term of more extensive

Radical vine gar. See Acetum.
RADICALIS. Radical: applied to leaves. Folia radicalin are such as spring from the root, like those

RADICANS. A botanical term, applied to a stem which clings to any other body for support, by means of fibres which do not imbibe nourishment; as the ivy,

RADI CULA. (Diminutive of radix, a root) 1. A radicle, rootlet, or futle root. It probably means the fibres which come from the main root, and which are the most ossential to the life of the plant, they only imbling the neursbinnent.

2. Applied to the origin of vessels and nerves.

3. The common radish is sometimes so called.

Raphanus satirus. RADISH. See Cochlearia and Raphanus. Rodish, garden. See Raphanus sativus.

Radisk, horse. See Cochlearia armoracia. RA'DIUS. 1. A bone of the forearm, which has gotten its name from its supposed resemblance to the spoke of a wheel, or to a weaver's beam; and some-times, from its supporting the hand, it has been called \*\*manubrium\*\* monue. Like the ulna, it is of a triangular figure, but it differs from that bone, in growing larger as it descends, so that its smaller part answers to the larger part of the ulna, and vice versa. Of its two extremities, the uppermost and smallest is formed into a small rounded head, furnished with cartilage, and hollowed at its summit, for an articulation with the little head at the side of the pulley of the os humeri. The round border of this head, next the ulna, is formed for an articulation with the 'ess sigmoid cavity of that bone. This little head of the radius is supported by a newk, at the bottom of which, laterally, is a considerable tuberosity, into the posterior half of which is inserted the posterior tendon of the biceps, while the interior half is covered with cartilage, and surrounded with a capsular ligament, so as to allow this tendon to slide upon it as upon a pulley. Immediately below this tuberosity, the body of the bone may be said to begin. We find it slightly curved throughout its begin. We find it slightly curved throughout whole length, by which means a greater space formed for the lodgment of muscles, and it is enabled to cross the ulna without compressing them. Of the three surfaces to be distinguished on the body of the bone, the external and internal ones are the broadest and flattest. The anterior surface is narrower and more convex. Of its angles, the external and internal ones are rounded; but the posterior angle, which is turned towards the ulna, is formed into a sharp spine, which serves for the attachment of the interesseous figament, of which mention is made in the description of the ulna. This strong ligament, which is a little interrupted above and below, serves not only to connect the bones of the forearm to each other, but likewise to afford a greater surface for the lodgment of muscles. On the ferepart of the bone, and at about one-third of its length from its upper end, we observe a channel for vessels, slanting obfiquely upwards. Towards its lower extremity, the radius becomes broader, of an irregular shape, and somewhat flattened, affording three surfaces, of which the posterior one is the smallest; the second, which is a continuation of the internal surface of the body of the bone, is broader and flatter than the first; and the third, which is the broadest of the three, answers the anterior and external surface of the body of the bone. On this last, we observe several sinuosities, covered with a thin layer of cartilage, upon which slide the tendons of several muscles of the wrist and fingers. The lowest part of the bone is formed into an oblong articulating cavity, divided into two by a slight transverse rising. This cavity is formed for an articulation with the hones of the wrist. Towards the au-terior and convex surface of the hone, this cavity is defended by a remarkable eminence, called the *styloid* process of the radius, which is covered with a carti-lage that is extended to the lower extremity of the ulna; a ligament is likewise stretched from it to the wrist. Besides this large cavity, the radius has another much smaller one, opposite its styloid process, which is lined with cartilage, and receives the rounded surface of the ulna. The articulation of the radius with the less sigmoid cavity of the ulna, is strengthened by a circular ligament which is attached to the two extremities of that cavity, and from thence surrounds the head of the radius. This ligament is narrowest, but thickest at its middle part. But, besides this ligament, which connects the two bones of the forearm with each other, the ligaments which secure the articulation of the radius with the os humeri, are common both to it and to the ulna, and therefore cannot well be understood till both these bones are described. These ligaments are a capsular and two aments. The capsular ligament is attached lateral ligaments. to the anterior and posterior surface of the lower extremity of the os humeri, to the upper edges and sides of the cavities, we remarked, at the bottom of the pulley and little head, and likewise to some part of the condyles: from thence it is spread over the ulna, to the edges of the greater sigmoid cavity, so as to include in it the end of the olecranon and of the coronoid process; and it is bkewise fixed round the neck of the radius. so as to include the head of that bone within it. The

lateral ligaments may be distinguished into external and internal, or, according to Winslow, into brachie-radialis and brachie-cubitatis. They both descend laterally from the lowest part of each condyle of the os bumeri, and, from their fibres spreading wide as they descend, have been compared to a goose's foot. The internal ligament or brachio-cubitalis; which is the longest and thickest of the two, is attached to the coronoid process of the ulna. The external ligament, or brachio radiatis, terminates in the circular ligament of the radius. Both these ligaments adhere firmly to the capsular ligament, and to the tendons of some of the adjacent muscles. In considering the articulation of the forearm with the os humer, we find that when both the bones are moved together upon the os humeri, the motion of the ulna upon the pulley allows only of flexion and extension; whereas, when the palm of the hand is turned downwards or upwards, or, in other words, in pronation and supmation, we see the radius moving upon its axis, and in these motions its head moving upon the little head of the os humeri at the side of the pulley, while its circular edge rolls in the less sigmoid cavity of the ulna. At the lower end of the foreaum the edge of the ulna is received into a superficial cavity at the side of the radius. This articulation, which is surrounded by a loose capsular ligament, concurs with the articulation above, in enabling the radius to turn with great facility upon its axis; and it is chiefly with the assistance of this bone that we are enabled to turn the palm of the hand upwards or downwards, the ulna having but a very inconsiderable

share in these motions.

2. The term radius, in botany, is applied to the marginal part of the corolla of compound flowers; thus, in the daisy, the marginal white flowers form the rays or radius, and the yellow central ones the dis-cus or disk. See Discus.

The radii of a peduncle of a compound umbel are the common stalks of the umbel, and pedicelli are the

stalks of the flowrets.

statks of the nowrets.

RA'DIX. (Radiz, diets. f.) A root. I. In botany, that part of a plant which imbibes its nourishment, producing the berbaceous part and the fructineation, and which consists of the caudex, or body, and radi cles .- Linnaus

That part of the plant by which it attaches itself to the soil in which it grows, or to the substance on which it feeds, and is the principal organ of nutrition.

-Keith.

In all plants, the primary root is a simple elongation of that part which, during the germination of the seed, is first protruded, and is denominated the radicle; and as the plant continues to grow, the root gradually assumes a determinate form and structure, which differs materially in different plants, but always is found similar m all the individuals of the same species. the figure, duration, direction, and insertion, roots are arranged into,

From their figure,

Radix fusiformis, spindle-shaped, of an oblong, tapering form, pointed at its extremity; as in Daucus carota, the carrot; Beta vulgaris, beet; Pastinaca

satira, parsnip, &c.

2. Radex ramosa, branched, which consists of a cauder, or main root, divided into lateral branches, which are again subdivided; so that it resembles in its divisions the stem and branches inverted. shrubs, and many herbaceous plants, have this form of

Radiz fibrosa, fibrous, consisting wholly of small radicles; as the Hordeum vulgare, common barley,

and most grasses.

4. Radir premorsa, abrupt or truncated, appearing as if bitten off close to the top; as in Scabiosa succisa, the devil's bite: Plantago major, larger plantain; Hicracium pramorsum, &c.
5. Radiz globosa, globose, having the caudex round,

or subrotund, sending off radicles in many places; as in Cuclamen europeum, sow-bread; Brassica rapa, turnip, &c.

6. Radix tuberosa, tuberose, furnished with farinaceous tubers; as in Solanum tuberosum, the potato: Helianthus tuberosus, Jerusalem artichoke, &cc

7. Radir pendula, pendulous, consisting of tubers connected to the plant by thin, or filtform portions; as Spira filipendula, common dropwort; Paonia officinalis, paony, &c.

8. Radiz granulata, granulated, formed of many nall globules; as in Sazifraga granulata, meadow saxifrage, &c.

9. Radiz articulata, articulated, or jointed, apparently formed of distinct pieces united, as if one pieces grew out of another, with radicles proceeding from each joint: as in Oxalis acetocella, woodsorrel; Asarum canadense, wild ginger, &c.

10. Radix dentata, toothed, which has a fleshy cau-

dex. with teeth like prolongations; as in Ophrys coral-

lorhiza

11. Radix squamosa, scaly, covered with fleshy cales; as in Lathraa squamaria, toothwort, &c.
12. Radix fascicularis, bundled, or fasciculate: as

in Ophrys, nidus avis, &c.

13. Radix cava, hollow; as in Fumaria cava.
There are other distinctions of modern botanists derived from the form; as conical, subrotund, napiform, placentiform, capillary, tufted, funiliform, geniculate, contorted, moniliform, &c.

From the direction, roots are distinguished into,

14. Radiz perpendicularis, perpendicular, which descends in a straight direction; as in Daucus corota,

Beta vulgaris, Scorzonera hispanica, &cc.

15. Rader harizontalis, horizontal, which is extended

under the earth transversely; as in Laserpitium pruthenium, &c.

16. Radix obliqua, oblique, descending obliquely; as

in Iris germanica, &c.

17. Radix repens, creeping, descending transversely, but here and there sending off new plants; as in Sambucus ebulus; Glycyrrhiza glabra; Ranunculus re-pens. &cc.
The duration affords,

18. Radix annua, yearly, which perishes the same year with the plant; as Draha verna, and all annuals. 19. Radix biennis, blennial, which vegetates the first year, flowers the next, and then perishes; as the Œno-

thera biennis, Beta vulgaris, &c

20. Radiz perennis, perennial, which lives for many years; as trees and shrubs.

Roots are also distinguished from their situation into, 21. Terrena, earth-root, which grow only in the earth; as the roots of most plants.

22. Aquatica, water-root, which grow only in the water, and perish when out of it; as Trapa natuns,

Nymphæa alba. 23. Parasitie Parasitica, parasitical, which inserts the root

into another plant; as in Epideadrum vanilla, &c.. 24. Arribza, which does not insert radicles, but co-

heres to other plants by an anastomosis of vessels; as in Viscum album, Horanthus europæus, &c.

II. In anatomy, the term radix is applied to some parts which are inserted into others, as the root of a plant is in the earth; as the fangs of the teeth, the origin of some of the nerves, &c.

RADIX BENGALE. See Cassumuniar.

RADIX BRASILIENSIS. See Callicocca ipecacuanha.

RADIX DULCIS. See Glycyrrhiza.

RADIX INDIANA. See Callinocca ipeca.
RADIX ROSEA. See Rhodiola.
RADIX RUBRA. See Rubia tinctorum.
See Fethusa meum. See Callinocca ipecacuanha.

URSINA See Ethusa meum

RA'DULA. (From rado, to, scrape off.) A wooden spatula, or scraper.

RAGWORT. See Scnecio Jacobaa.

RAISIN. See Settle vinifera.

Raisin. See Vitis vinifera.

Rama'iis vena. (From ramale, a dead bough.)

Applied to the vena porte, from its numerous ramifications, which resemble a bough stripped of its leaves.

RAMAZZINI, BERNARDIN, was born at Carpi, in Italy, in 1633. He graduated at Parma at the age of 26, and, after studying some time longer at Rome, settled in the dutchy of Castro: but ill health obliged him speedily to return to his native place. His reputation increasing, he removed to Modena in 1671, where he met with considerable success; and, in 1682, he was appointed professor of the theory of medicine in the university recently established there, which office he filled for eighteen years with great credit. He was then invited to a similar appointment at Padua, and exerted himself with laudable ardour for three years; when he was attacked with a disease of the which ultimately deprived him of sight. In 1708.

tice of medicine. He continued to perform the duties of these offices with great diligence and reputation till his death, in 1714. He was a member of many of the academics of science, established in Germany, &c., and jett several works in the Latin language, remarkable for the elegance of their style, and other merits. The principal of these, and which will be ever held in estimation, is cutiled "De Morbus Artificum Dutri-He continued to perform the duties tice of medicine. ba," giving an account of the diseases peculiar to dif-ferent artists and manufacturers.

RAMEUS. Of or belonging to a bough or branch; applied to branch applied to branch applied to branch are seen that the periods, seen on the leaves of some of the genus Bugonia. See Prius.

RAMEUS. Of or belonging to a bough or branch; applied to branch leaves, which are so distinguish;

because they sometimes differ from those of the main stem; as is the case in Melampyrum arvense, and also to a leaf-stalk when it comes directly from the

main branch; as in Eugenia malaccensis.

Ra'Mex. (From ramus, a branch: from its protruding forwards, like a bud.) An obsolete term for a

runture

RAMOSISSIMUS. Much branched. Applied to a stem which is repeatedly subdivided into a great many branches, without order; as those of the apple, pear, and gooseberry tree.
RAMOSUS. Branched. Applied to the roots, and

especially those of trees.
RAMUS. A branch, or primary division of a stem RAMUS. A trained, or printer artists of a minto lateral stems. In the language of botanists rami, or branches, are denominated,

1. Oppositi, when they go off, or pair opposite to each other, as they do in Mentha arvensis.

2. Alterni, one after another, alternately; as in Al-

thæa officinalis. Verticillati, when more than two go from the

stem in a whirlwind manner; as in Pinus abies.

4. Sparsi, without any order.

5. Erecti, rising close to the stem; as in Populus di

6. Putentes, descending from the stalk at an ob-tuse angle; as in Galium mollugo, and Cistus italicus 7. Patentissimi, descending at a right angle; as in Ammania ramosior. 8. Brachiati, the opposite spreading branches crossing each other; as in Pisonia aculeata, and Panisteria

brachiata. 9. Deflexi, arched, with the apex downwards; as in

Pinus larix. 10. Reflexi, hanging perpendicularly from the trunk;

as in the Salix babylonica 11. Retroflexi, turned backwards; as in Solanum

dulcamara. 12. Fastigiati, forming a kind of pyramid; as in

Chrysanthemum corymbosum.

13. Vergati, twig-like, long and weak; as in Salix vimialis.

RA'NA. The name of a genus of animals. Class, Amphibia; Order, Reptilia. The frog.
RANA ESCULENTA. The French frog.

RANA ESCULENTA. The French frog. The flesh of this species of frog, very common in France, is highly nutritious and easily digested.

RANCID. Oily substances are said to have become rancid, when, hy keeping, they acquire a strong, offen

sive smell, and altered taste.

RANCIDITY. The change which oils undergo by exposure to air, which is probably an effect analogous to the oxidation of metals.

RANINE. (Raninus, from rana, a frog.) 1: Apper-

taining to a frog.

2. The name of an artery, called also Arteria ra-nina. Sublingual artery. The second branch of the external carotid.

external carond.

RANULA. (From rana, a frog: so called from its resemblance to a frog, or because it makes the patient croak like a frog: Batrachos; Hypoglossus; Hypoglossus; Rana. An inflammatory or indolent tumour, under the tongue. These tumours are of various sizes and degrees of consistence, seated on either control of the contr side of the framum. Children, as well as adults, are sometimes affected with tumours of this kind; in the former, they impede the action of sucking; in the latter of mastication, and even speech. The contents of which ultimately deprived mind is self-than the contents of the contents of venice appointed him President of the College of Physicians of that capital, and in the following per raised him to the first professorship of the practical points. Sometimes it is said that a fatty matter has

been found in them; but from the nature and structure of the parts, we are sure that this can seldom happen; and, in by far the greatest number of cases, we find that the contents resemble the saliva itself. This, inthat the contents resemble the saliva itself. This, in-deed, might naturally be expected, for the cause of these tumours is universally to be looked for in an ob-struction of the suivary ducts. Obstructions here may-arise from a cold, inflammation, violent fits of the toothache, attended with swelling in the inside of the mouth; and, in not a few cases, we find the ducts obstructed by a stony matter, seemingly separated from the saliva, as the calculous matter is from the urine; but where inflammation has been the cause, we always find matter mixed with the other contents of the tumour. As these tumours are not usually attended with much pain, they are sometimes neglected, till they burst of themselves, which they commonly do when arrived at the bulk of a large nut. As they were pro-duced originally from an obstruction in the salivary and this obstruction cannot be removed by the bursting of the tumour, it thence happens that they eave an uter extremely difficult to heal, nay, which cannot be healed at all till the cause is removed. RANUNCULOFDES, (From ranuaculus, and tios, resemblance: so named from its resemblance to the ranunculus.) The march marigold. See Catha pa-

RANU'NCULUS, (Diminutive of rana, a ftog: because it is found in fenny places, where frogs abound.) The name of a genus of plants in the Linnean system. Class, Polyandria; Order, Polyagynia.

The great acrimony of most of the species of ranuncu-

lus is such, that, on being applied to the skin, they excite itching, redness, and inflammation, and even produce blisters, tumefaction, and ulceration of the part. On being chewed, they corrode the tongue; and, if taken into the stomach, bring on all the deleterious effects of an acrid poison. The corrosive acrimony which this an acrid poison. The corrosive acrimony which this family of plants possesses, was not unknown to the ancients, as appears from the writings of Dioscorides; but its nature and extent had never been investigated by experiments, before those instituted by C. Krapf, at Vienna, by which we learn that the most virulent of the Linnæan species are the bulbosus, sceleratus, acris,

arvensis, thora, and illyricus.

The effects of these were tried, either upon himself or upon dogs, and show that the acrimony of the difor upon dogs, and show that the acrimony of the dif-ferent species is often confined to certain parts of the plants, manifesting itself either in the roots, stalks, leaves, flowers, or buds; the expressed juice, extract, decoction, and infusion of the plants, were also sub-jected to experiments. In addition to these species mentioned by Krapf, we may also notice the R. Flam-mula, and especially the R. Alpestris, which, accord-ing to Haller, is the most acrid of this genus. Curtis observes, that even pulling up the ranunculus acris, the common meadow species, which possesses the active common meadow species, which possesses the active principle of this tribe, in a very considerable degree, throughout the whole herb, and carrying it to some little distance, excited a considerable inflammation in the palm of the hand in which it was held. It is necessary to remark, that the actimonious quality of these plants is not of a fixed nature; for it may be completely dissipated by heat; and the plant, on being thoroughly dried, becomes perfectly bland. Krapf attempted to counteract this venomous acrimony of the ranunculus by means of various other vegetables, none of which was found to answer the purpose, though he thought that the juice of sorrel, and that of unripe currans, had some effect in this way; yet these were much less availing than water; while vinegar, honey, sugar, wine, spirit, mineral acids, oil of tartar, p. d. and other sapid substances, manifestly rendered the acrimony more corrosive. It may be also noticed, that the viruleurs of mere formers of the store of the s acrimony more corrosive. It may be also noticed, that the virulency of most of the plants of this genus depends much upon the situation in which they grow,

and is greatly diminished in the cultivated plant.

RANUNCULUS ABORTIVUS. The systematic name of RANUNCULUS ABORTIVUS. The systematic name of a species of ranunculus, which possesses acrid and ve-

sicating properties.

RANCECULES ACRIS. The systematic name of the meadow crow-foot. Ranuacidus praterasis. This and some other species of ranuacidus, have, for medical purposes, been chiefly employed externally as a vesicatory, and are said to have the advantage of a common blistering plaster, in producing a quicker effect, and never causing a strangury; but, on the other hand, it has been observed, that the ranunculus is less certain in its operation, and that it sometimes occasions ulcers, which prove very troublesome and difficult to heal. Therefore their use seems to be applicable only to certain fixed pains, and such complaints as require a long-continued topical stimulus or discharge from the part, in the way of an issue, which, in various cases, has been found to be a powerful remedy.

RANDICULUS LABUS. The plant which bears this name in the pharmacopæias is the Anemone nemorosa,

Linnaus. See Anemone nemorosa.

Rinunculus Bulbous. Bulbous-rooted crow-foot. The roots and leaves of this plant, Ranunculus—caly-cibus retroflexis, pedunculis sulcatis, caule erecto multifloro, folias composites, oi Linneus, have no considerable smell, but a highly acrid and fiery taste. Taken internally, they appear to be deleterious, even when so far freed from the caustic matter by boiling in water, as to discover no ill quality to the palate. The effluvia, to discover no ill quality to the palate. The effluvia likewise, when freely inspired, are said to occasion headaches, anxieties, vomitings, &c. The leaves and roots, applied externally, inflame and ulcerate, or vesicate the parts, and are liable to affect also the adjacent parts to a considerable extent.

RANUNCULUS FICARIA. The systematic name of the pilewort. Chelidonium minus; Scrophularia minor; Chelidonia rotundifolia minor; Cursuma hamorrhoi-Chelidonia rotundifolia minor; Cursuma hamorrhoi-doits herba; Ranunculus vernus. Less celandine, and pilewort. The leaves and root of this plant, Ra-nunculus—foliis cordatis angulatis petiolatis, caule uniforo, of Linnaeus, are used medicinally. The leaves are deemed anti-scorbutic, and the root reck-oned a specific, if beat into cataplasms, and applied to

RANUNCULUS FLAMMULA. The systematic name of the smaller water crow-foot, or spearwort. Surrecta alba. The roots and leaves of this common plant, Raalba. The foots and leaves of this neticlatis, caule declinate, of Linnæus, taste very acrid and hot, and when taken in a small quantity, produce vomiting, spasms of the stomach, and delirium. Applied exter-nally, they vesicate the skin. The best antidote, after clearing the stomach, is cold water acidulated with lemon-juice, and then mucilaginous drinks
RANUNCULUS PALUSTRIS. Water crow

Water crow-foot. Ranunculus sceleratus.

RANUNCULUS PRATENSIS. Meadow crow-foot, See Ranunculus acris

RANDROLLUS SCELERATUS. The systematic name of the marsh crow-foot. Rannaculus palustris. The leaves of this species of crow-foot are so extremely acrid, that the beggars in Switzerland are said, by rubbing their legs with them, to produce a very fætid and

ong their legs with them, to produce a very need and acrimonious ulceration.

RAPA. See Brassica rapa.

RAPE. See Brassica rapa.

RAPHANIA (From raphanus, the radish, or charlock; because the disease is said to be produced by eating the seeds of a species of raphanus.) Conby eating the seeds of a species of raphanias; Ownulsio ob ustilagine; Convulsio raphania; Belampsia typhodes; Convulsio soloniensis; Vecrosis ustiluginea. Cripple disease. A genus of disease in the class Veuroses, and order Spasmi, of Cullen; characterized by a spasmodic contraction of the joints, with terized by a spasmodic contraction of the joints, with convulsive motions, and a most violent pain returning at various periods. It begins with cold chills and lassitude, pain in the head, and anxiety about the praecordia. These symptoms are followed by spasmodic twitchings in the tendons of the fingers and of the feet, discernible to the eye, heat, fever, supor, delirium, sense of suffocation, aphonia, and horrid convulsions of the limbs. After these, vomiting and diarrhea come on, with a discharge of worms, if there are any. About the eleventh or the twentieth day, copious sweats succeed, or purple examthema, or tabes, or rigidity of all the joints. rigidity of all the joints.
RAPHANISTRUM. The trivial name of a species

RAPHANUS. (Paψavoς παρα το ραδιως φαινεσθαι : from its quick growth.) 1. A genus of plants in the Linnæan system. Class, Tetradynamia; Order, Sili-

The radish. See Raphanus sativus.

RAPHANUS HORTENSIS. See Raphanus sativus.
RAPHANUS NGER. See Raphanus sativus.
RAPHANUS RUSTICANUS. See Cochlearia armoracia.
RAPHANUS SATIVUS. The systematic name of the.
2033

radish plant. Raphanus hortensis; Radicula; Rapha- | medicine. But a fincture of the flower will answer as nucr. The radish. The several varieties of this | well. nus niger. The radish. The several varieties of this plant, are said to be employed medicinally in the cure of calculous affections. The juice, made into a syrup, is given to relieve hoarseness. Mixed with ho ney or sugar, it is administered in pituitous asthma; and as antiscorbutics, their efficacy is generally ac knowledged.

RAPHANUS SYLVESTRIS. See Lepidium satieuum. RA'PHE. ( $Pa\phi\eta_1$  a suture.) A suture. Applied to parts which appear as it they were sewed together;

as the Raphe scrott, cerebra, &c.

RAPHE CEREBRI. The longitudinal eminence of the RAPHE CEREBRI. The longitudinal eminence of the corpus callosum of the brain is so called, because it ap-

corpus callosum of the brain is so called, because it appears somewhat like a suture.

RAPHE SCROTI. The rough eminence which divides the scrotum, as it were, in two. It proceeds from the root of the penis inferiorly towards the perinacum.

RAPI'STRUM. (From rapa, the turnip; because its leaves resemble those of turnip. Originally, the wild turnip: so called from its allmity to Rapa, the cultivated one.) 1. The name of a genus of plants. Class, Tetradynamia; Order, Siliculosa.

2. The name of two species of Crambe, the orientalis and bismairs.

2. The faint of two species of Crampe, the orthicals and hispanica.

RA PUM. (Etymology uncertain.)

1. The turnip. See Brassica rapa.

2. The Campanula rapunculus.

RAPUNCULUS. (Dimmutive of rapa, the turnip.)

The trivial name of a species of Campanula.

RAPUNCULUS CORNICULATES. See Phyteuma orbi-

RAPUNCULUS VIRGINIANUS. The name given by Morrison to the blue cardinal flower. See Lobelia.

RAPUS. See Brassica rapa.
RASH. See Exanthema.
RASPATO'RIUM. (From rado, to scrape.) A surgeon's rast

geon's rasp.

RASPBERRY. See Rubus idans.

RASU'RA. (From rado, to scrape.)

1. A rasure or scratch.

2. The raspings or shavings of any substance.

RATIFIA. A liquor prepared by imparting to addent spring the flavour of various kinds of fruits.

RATTLESNAKE. See Crotains harridus

Rattlesnake-root. See Polygodu seng a.

RATCE DO. (From rancos, house.) Rancitus.

Hoarseness. It is always symptomatic of some other disease. disease.

Ray of a finger. See Radius.

REAGENT. Test. A substance used in chemistry to detect the presence of other bodies. In the application of tests there are two circumstances to be at tended to, viz. to avoid decentral appearances, and to have good tests.

The principal tests are the following

1. Litmus. The purple of litmus is changed to red by every acid; so that this is the test generally made use of to detect excess of acid in any fluid. It may be used either by dipping into the water a paper stained with litmus, or by adding a drop of the tincture to the water to be examined, and comparing its line with that of an equal quantity of the tincture in distilled water.

Litmus already reddened by an acid will have its purple restored by an alkali; and thus it may also be used as a test for alkalies, but it is much less active than

other direct alkaline tests.

2. Red cabbage has been found by Watt to furnish as delicate a test for acids as Liturus, and to be still more sensible to alkalies. The natural colour 61 an infusion of this plant is blue, which is changed to red by acids, and to green by alkalics in very minute quan-

Brazil wood. When chips of this wood are infused in warm water they yield a red liquor, which readily turns blue by alkalics, either causic or tarbonated dily turns blue by alkalites, either causer or carbonated at It is also rendered blue by the enabonated earths held in solution by carbonic acid, so that it is not an unequivocal test of alkalies till the earthy carbonates have been precipitated by boiling. Acids change to yellow the natural red of Brazil wood, and restore the red when

changed by alkalies.

4. Fiolets. The delicate blue of the common scented violet is readily changed to green by alkalies, and this affords a delicate test for these substances. Syrup of violets is generally used as it is at hand, being used in

well.

5. Turmeric. This is a very delicate test for alkalies, and on the whole, perhaps, is the best. The natural colour either in watery or spirituous infusion is yellow, which is changed to a brick or orange-red by alkalies, caustic or carbonated, but not by carbonated cartis, on which account it is preferable to Brazil

The pure earths, such as lime and barytes, produce

the same change.
6.\* Rhubarb. Infusion or tincture of rhubarb undergoes a similar change with turmeric, and is equally

7 Sulphuric acid. A drop or two of concentrated sulphuric acid, added to water that contains carbonic acid, free or in combination, causes the latter to escape with a pretty brisk effervescence, whereby the presence of this gaseous acid may be detected.

or one sustents and may be detected.

8. Netric and esymmetratic and. A peculiar use attends the employment of these acids in the sulphuretted waters, as the sulphuretted hydrogen is decomposed by them. them, its hydrogen absorbed, and the sulphur separated

in its natural form.

9. Oxalic acid and oxalate of ammonia. These are the most delicate tests for lime and all soluble calcareous salts. Oxalate of lime, though nearly insoluble in reous sails. Oxidate of fine, though meanly insolute in water, dissolves in a moderate quantity in its own or any other acid, and hence in analysis oxidate of ammonia is often preferred, as no excess of this sailt can redissolve the precipitated oxidate of lime. On the other hand, the ammonia should not exceed, otherwise it might give a false indication.

10. Gallic acid and tincture of galls. These are tests of non. Where the iron is in very minute quantities, and the water somewhat acidulous, these tests do not always produce a precipitate, but only a slight reddening, but their action is much heightened by pre-

reddening, but their action is much neighbored by pre-viously adding a few drops of any alkaline solution. 11. Prussiate of potassa or lime. The presence of iron in water is equally well indicated by these prus-siates, causing abline precipitate, and if the prussiate of potassa is properly prepared, it will only be precipi-tated by a metallic sail, so that manganese and copper will also be detected, the former giving a white precipi-

tate, the latter a red precipitate.

12. Lame water is the common test for carbonic acid; it decomposes all the magnesian salts, and likewise the alumnous salts; it likewise produces a cloudiness with most of the sulphates, owing to the formation of sele-

13. Ammonia. This alkali when perfectly caustic serves as a distinction between the salts of lime and those of magnesia, as it precipitates the earth from the latter salts, but not from the former. There are two sources of error to be obviated, one is that of carbonic acid being present in the water, the other is the presence of aluminous salts.

14. Carbonated alkalies. These are used to precipitate all the earths; where carbonate of potassa is used, particular care should be taken of its purity, as it gene-

rally contains silex.

15. Marcoted alumine. This test is proposed by Mr. Kuwan to detect carbonate of magnesia, which cannot, like carbonated line, be separated by ebullition, but remains till the whole liquid is evaporated.

16. Enoutic softs. The mirrate, muriate, and acclate of barytes are all equally good tests of sulphuric acid here was kirched.

17. Salts of silver. The salts of silver are the most deficate tests of nuriate acid, in any combination, producing the precipitated luna cornea. All the salts of silver likewise give a dark brown precipitate with the sulphineired waters, which is as delicate a test as

the staphingfur walves, when it as a another we possess.

18. Salts of lead. The nitrate and acetate of lead are the salts of this metal employed as tests. They will indicate the sulphuric, muriatic, and boracic acids, when the salts are the salts of potassa.

and sulphuretted hydrogen or sulphuret of potassa.

19. Surp. A solution of soap in distilled water or in alkohol is corded by water containing any earthy or

20 Tuctacic and. This acid is of use in distinguishing the salts of potassa (with which it forms a pocupatate of cream of rartary, nom those of soda, from which it does not precipitate. The potassa, however, must exist in some quantity to be detected by the test

21. Nitro-muriate of platinum. This sort is still more discriminative between potassa and the other alkalies, than acid of tartar, and will produce a precipitate with a very weak solution of any sait with po-

22. Alkohol. This most useful reagent is applicable in a variety of ways in analysis. As it dissolves some substances found in fluids, and leaves others untouched, this a means of separating them into two classes, which saves considerable trouble in the further investigation. Those salts which it does not dissolve, it precipitates from their watery solution, but more or less completely according to the salt contained, and the strength of the alkohol, and as a precipitant it also assists in many de-

REA'LGAR. Arlada; Arladar; Auripigmentum rubrum; Arsenicum rubrum factitium; Abessi. A native ore of sulphutet of arsenic.

RECEIVER. A chemical vessel adapted to the neck or beak of a retort, alembic and other distillatory vessel, to receive and contain the product of dis-

RECEPTA'CULUM. (From recipio, to receive.) 1. A name given by the older anatomists to a part of the thoracic duct. See Recepturalism chyli, 2. In botany, the common basisor point of connexion of the other parts of the fractification of plants; by

some called the Thalamus and the Placenta,

It is distinguished by botanists into proper and com-mon; one flower only belongs to the former, and it is formed mostly from the apex of the pedancle or scap as in Tulipa gesneriana, and Lilium candidum. 'I latter has many flowers; as in Helianthus annuus.

The proper receptacle or apex of the peduncle swells in some flowers, and becomes the fruit: thus the Fra garra cesco is not a berry, but a deshy receptacle, with its naked seeds nestling on its surface: so, in the Hovenia daleis, the peduncles swell into a thick fleshy receptacle on which there are small capsules; and, in the Anacardium occidentale, the peduncle swells into a receptacle, on which the nut rests.

The varieties of the common receptacle are,

1. Planum : as in Helranthus annuas.

Convexum; as in Leontodon turaxacum. Conicum; as in Billis perennis.

- Punctatum; as in Leontodon taraxacum. Globosum; as in Cephalanthus.
- Ovale; as in Dorstinia drakenia.

- Ocatum; as in Omphalen
  Favosum, cellular on the surface, honeycomblike ; as in Onopordium
- Scrobiculatum, having round and deep holes; as in Helianthus amnuas. 10. Subulatum ; as in Scubiosa atropurpurca.

11. Quadrangulum; as in Dorstenia houstonii, and

12. Turbinatum; as in Ficus carica.
13. Digitiforme; as in Arum maculatum, and Calla

athropica 14. Filiforme, thread-like; as in the catkins and corylus.

The Ficus carica is a connivent

- fleshy receptacle enclosing the florets. 16. Nudum, without any vesture; as in Lactuca, and Leontodon taracacum
  - 17 Pilosum; as in Carthamus tinctorius.18 Villosum; as in Artemisia absynthium
- 19. Setosum; as in Echynops spherocephalus, and Centaurea.
- 20. Paleaceum, covered with chaffy scales; as in Zeranthemum, Dipsacus, &c.

On the receptacle and seed-down are founded the most solid generic characters of syngenesious plants,

admirably illustrated by the inimitable Gartner.

The term receptacle is sometimes extended by Linnams to express the base of a flower, or even its inter nal part between the stamens and pistils, provided there be any thing remarkable in such parts, without reference to the foundation of the whole fructification. It also expresses the part to which the seeds are attached in a seed vessel, and the common stalk of a spike, or spikelet, in grasses.

RECEPTACIDEM CHYLL. Receptaculum pecqueti, because Pecquet first attempted to demonstrate it; rersorium; Sacculus chylogerus. The existence of such a receptacle in the human body is doubted. In brute animals the receptacle of the chyle is situated on the dorsal vertebræ where the lacteals all mest. See Absorbents

Reciprocal affinity. See Affinity, reciprocal.
RECLINATUS. Reclining: applied to stems, leaves,
&cc. which are curved towards the ground; as the stem of the bramble, and leaves of the Leonurus car-

RECTIFICATION. (Rectificatio; from rectifico, to make clear.) A second distillation, in which substances are purified by their more volatile parts being raised by heat carefully managed; thus, spirit of wine, wither, &c. are rectified by their separation from the less volatile and foreign matter which altered or debased their properties.

RE'CTOR SPIRITUS. The aromatic part of plants. Aroma

RECTUM. so named from (Rectum intestinum: an erroneous opinion that it was straight.) Apeuthys-menos 'Langanon: Longaon; Archos; Cyssaros. menos: Longanon; Longaon; Archos; Cyssaros.
The last portion of the large intestines terminating in

the anns. See Intestine.

REFCTUS. Straight. Several parts of the body, particularly muscles, are so called from their direction.

Parts of plants also have this term; as Caulis rectus, the straight stem of the garden-lily, spinarecta, &c.

Recrus abdominis. Pubio-sternal, of Dunas. A long and straight muscle-situated near its fellow, at the middle and forepart of the abdomen, parallel to the linea alba, and between the aponeuroses of the other abdominin lunceles. It arises sometimes by a single broad tendon from the upper and inner part of the os pubs, but more commonly by two heads, one of which is flesby, and originates from the upper edge of the pubis, and the other tendinous, from the inside of the symphysis pubis, belind the pyramidatis muscle. From these beginnings, the muscle runs upwards the whole length of the linea alba, and becoming broader and thinner as it ascends, is inserted by a thin aponeurosis into the edge of the cartilago ensitormis, and into the catilages of the fifth, sixth, and seventh ribs. This aponeurosis is placed under the pectoral muscle, and sometimes adheres to the fourth rib. The fibres of this muscle are commonly divided by three tendinous intersections, which were first noticed by Berenger, or as he is commonly called, Carpi, an Italian anatomist, who flourished in the sixteenth century. One of these intersections is usually where the muscle runs over the cartilage of the seventh rib; another is at the umbili-cus; and the third is between these two. Sometimes there is one, and even two, between the umbilious and the pulses. When one or both of these occur, however, they seldom extend more than half way across the muscle. As these intersections seldom penetrate through the whole substance of the muscle, they all of them most apparent on its auterior surface, where they firmly adhere to the sheath; the adhesions of the rectus to the posterior layer of the mernal oblique, are only by means of cellular membrane, and of a few vessels which pass from one to another.

Albinus and some others have seen this muscle ex-

Aromas and some onness have seen in a macele ex-tending as far as the upper part of the stermum. The use of the rectus is to compress the forepart of the abdomen, but more particularly the lower part; and according to the different positions of the body, it may likewise serve to bend the trunk forwards, or raise the pelvis. Its situation between the two layers of the internal oblique, and its adhesions to this sheath, secure it in its place, and prevent it from rising into a prominent form when in action; and, lastly, its tendinous intersections enable it to contract at any of the intermediate spaces.

RECTUS ABDUCENS OCULI. See Rectus externus

RECTUS ADDUCENS OCULI. See Rectus internus

RECTUS ANTERIOR BREVIS. See Rectus capitis in-

RECTUS ANTERIOR LONGUS. See Rectus capitis internus major.

RECTIS ATTOLLENS OCULI. See Rectus superior

RUCTUS CAPITIS ANTICUS LONGUS. See Rectus capiles internus major.

RECTUS CAPITIS INTERNUS MAJOR. A muscle situated on the anterior part of the neck, close to the ver-telne. Rectus internus major, of Albinus, Douglas, and Cowper. Trachelabasilaire, of Dumas

of the ancient anatomists, but was not distinguished by any particular name until Cowper gave it the present appellation, and which has been adopted by most writers except Winslow. It is a long muscle, thicker and broader above than below, where it is thin, and broader above than below, where it is thin, and terminates in a point. It arises, by distinct and flat tendons, from the anterior points of the transverse processes of the five inferior vertebracy of the pure. ceases of the five inferior vertebra of the neek, and as-cending obliquely upwards is inserted into the anterior part of the cunetform process of the occipital bone. The use of this muscle is to bend the head forwards.

RECTUS CAPITIS INTERNUS MINOR. Cowper, who was the first accurate describer of this little muscle, gave it the name of rectus internus maner, which has been adopted by Douglas and Albinus. Winslow calls it rectus anterior brevis, and Dumas petit-trachelobasilaire. It is in part covered by the rectus major. basitane. It is in part covered by the recursinages. It is in part covered by the recursionages arises fleshy from the upper and forepart of the body of the first vertebra of the neck, near the origin of its transverse process, and, ascending obliquely inwards, is inserted near the root of the condylond process of the occupital bone, under the last described muscle. It asserts is being the basic forces.

sists in bending the head forwards.

Rectes captus lateralis. Rectus lateralis Fallopin, of Douglas. Transversalis anticus primus, of Winslow. Rectus lateralis, of Cowper, and Trachelicalitodo basilare, of Dumas. This muscle seems to have been first described by Fallopius. Winslow calls it transversalis anticus primus. It is somewhat larger than the rectus minor, but resembles it in shape, and is situated immediately behind the internal jugular vein, at its coming out of the cranium. It arises fleshy from the upper and forepart of the transverse process of the first vertebra of the neck, and, ascending a little obliquely upwards and outwards, is inserted into the occipital bone, opposite to the style-masterid hole of the os temporis. This muscle serves to pull the head to

One side.

RECTUS CAPITIS POSTICUS MAJOR. This muscle, which is the rectus major of Douglas and Winslow, the rectus capities posticus monor of Allenus, and the spine-azoido-occipital of Dumas, is small, short, and flat, broader above than below, and is situated, not in a straight direction, as its name would insimate, but observed. liquely, between the occiput and the second vertebra of the neck, immediately under the complexus. It arises, by a short, thick tendon, from the upper and arises, by a snot, thek tenion, from the upper and posterior part of the spinous process of the second vertebra of the neck; it soon becomes broader, and, ascending obliquely outwards, is inserted, by a flat tendon, into the external lateral part of the lower semicicular ridge of the os occipitis. The use of this is to extend the head, and pull it backwards.

Extend the mean, and point to dockwards.

Recrus capitis postitis minor. This is the rectus

minor of Douglas and Winslow, and the tuber-altoidooccipital of Dumas. It is smaller than the last-described

muscle, but resembles it in shape, and is placed close muscle, our resembles it in simple, and is placed close by its icliow, in the space between the recti majores. It arises, by a short, thick tendon, from the upper and lateral part of a little protuberance in the middle of the back part of the first vertebra of the neck, and, becoming broader and thinner as it ascends, is inserted, by a broad, flat tendon, into the occipital bone, immediately under the insertion of the last-described muscle. The use of it is to assist the rectus major in drawing

The use of this or the head backwards.

RECTUS CRURIS. See Rectus femoris.

RECTUS CRURIS. See Rectus inferior

oculi.

RECTUS EXTERNUS OCULI. The outer straight mus-cle of the eye. Abductor oculi; Iracundus; Indigna-bundus. It arises from the bony partition between the foramen opticum and lacerum, being the longest of the straight muscles of the eye, and is inserted into the sclerotic membrane, opposite to the outer cauthus of the eye. Its use is to move the eye outwards.

the eye. Its use is to move the eye outwards.

RECTUS FEMORIS. A straight muscle of the thigh, situated immediately at the forepart. Rectus cive Gracul's anterior, of Winslow. Rectus cruris, of Albinus; and Hierortulien, of Dunnas. It arises from the ostilum by two tendons. The foremost and shortest of these springs from the outer surface of the inferior and anterior spinous process of the ilium; the posterior tendon, which is thicker and longer than the other, arises from the posterior and outer part of the edge of the cotyloid cavity, and from the adjacent capsular liga-

so that it may be styled a penniform muscle. It is in-serted tendmous into the upper edge and anterior sur-face of the patella, and from thence sends off a thin aponeurosis, which adheres to the superior and lateral

aponeurosis, which adheres to the superior and alerat part of the thin. It sue is to extend the leg.

Recrus inferior occul. The interior of the straight muscles of the eye. Depressor cauli, Deprimens; Humilis; Amatorius. It arises within the socket, from below the optic foramen, and passes forwards to be inserted into the sclerotic membrane of the bulb on the under part. It pulls the eye downwards.

RECTUS INTERNUS SEMORIS. See Graculis.
RECTUS INTERNUS OCULI. The internal straight muscle of the eye. Adducens oculi; Adductor oculi; Bibitorius. It arises from the interior part of the foramen opticum, between the obliquus superior, and the rectus inferior, being, from its situation, the shortest muscle of the eye, and is inserted into the sclerotic membrane opposite to the inner angle. Its use is to turn the eye towards the nose

RECTUS LATERALIS FALLOPII. See Rectus capitis

RECTUS MAJOR CAPITIS. See Rectus capitis posticus major.

RECTUS SUPERIOR OCULI. The uppermost straight muscle of the eye. Attollers oculi. Levator oculi. Superbus. It arises from the upper part of the foramen opticum of the sphenoid bone below the levator palpe-bræ superioris, and runs forward to be inserted into the superior and forepart of the sclerotic membrane by a boad and thin tendon.

RECURRENT. (Recurrens: so named from its direction.) Reflected.

Two branches of the par va-RECURRENT NERVE. RECURRENT NERVE. Two branches of the par va-gum in the cavity of the thorax are so called. The right is given off near the subclavlan artery, which it surrounds, and is reflected upwards to the thyroid gland; the left a little lower, and reflected around the audia to the desophagus, as far as the larynx. They are both distributed to the muscles of the larynx and

RECURVUS. RECURVUS. Recurved; reflexed; turned back-ward: applied to the leaves of the Erica retorta.

ward: applied to the leaves of the Laten resorts.

Red saudors. See Pterocarpus santalinus.

REDDLE. A species of ochre or argillaceous earth, of a durk red colour, which has been used medicinally as a tonic and antacid.

This would be item.

REDUCTION. Revivification. This word, in its most extensive sense, is applicable to all operations by which any substance is restored to its natural state, or which is considered as such: but custom confines it to operations by which metals are restored to their metalic state, after they have been deprived of this, either by combustion, as the metallic oxides, or by the union of some heterogeneous matters which disguise them, as

some necrogeneous matters which disguise them, as fulminating gold, luna cornea, cinnabar, and other compounds of the same kind. These reductions are also called revivifications.

REFLEXUS. Reflected; recurved; bent backward: applied to the leaves of plants, as the Erica retorta, and to the border of the flower-cup of the Canothera bienties and the petals of the Paractine scale in the petals of the petals of the Paractine scale in the petals of the petals of the Paractine scale in the petals of the petals

nais, and the petals of the Paneratium zeylamicum.

REFRIGERANT. (Refrigerans; from refrigero, to cool.) Medicines which allay the heat of the body or of the blood.

REFRIGERATO'RIUM. (From refrigero, to cool.) A vessel filled with water to condense vapours, or to

RE'GIMEN. (From rego, to govern.) A term employed in medicine to express the plan or regulation of

REGUNA. A queen. A name given by way of

excellence to some plants.

REGINA PRATI. See Spira ulmaria.

REGION. (Regio, onis. f. à rego.) A part of the body; generally applied to external parts, under which is some particular viscus, that the particular place may be known. Anatomists have divided the regions, or several carts of the body when entire, as follows:

Into caput, or head; truncus, or trunk; and extremi-tates, or extremities.

A. The head is divided into,

Facies, the face.

2. Pars capillata, the scalp

The regions of the scalp are Vertex the top or crown of the head.

b. Synciput, the forepart of the scalp

c. Occiput, the back part of the head.
d. Partes laterales, the sides.

The regions of the face are,

Frons, the forehead.

b. Tempora, the temples.
c. Nasus, the nose, on which are, the radiz, or root; the dorsum or bridge; the apex, or tip; and the ale, or sides.

d. Oculus, the eye.
 e. Os, the mouth the external parts of which are,
 labia, the lips; anguli oris, where the lips meet; philtrum, an oblong depression in the middle of the upper

f. Mentum, the chin, the hair of which is called barba, whereas that of the upper lip is termed mistax. g. Bucca, the cheeks.
h. Aurts, the ear, on which are the auricula, helix,

antihelix, tragus, antitragus, concha, scapha, and lo-

bulas.

B. The trunk is divided into the collum, or neck; the thorax, or chest; the abdomen, or belly.

1. Collum, the neck, which has,

2. Pars antica, in which is the pomum adami, or

Pars postica, in which is the fossa, and nucha, or nape of the neck.

. Thoraz, the chest, which is divided into a. The front, on which is mamme, the breasts, and scrobiculus cordis, the pit of the stomach.

b. The back part, or dorsum.
c. The sides.

3. Abdomen, is divided into the forepart, which is strictly the abdomen, or belly; the hindpart, or lumbi, the loins; the lateral parts or sides.

On the abdomen, or forepart, are the following re-

The Epigastric, the sides of which are termed hypochondria

The Umbilical, the sides of which are termed the

epicolic regions.

The Hypogastric, the sides of which are the ilia.
The Pubes is the region below the abdomen, covered with hair; in women, termed mons veneris: the sides are inguina, or groins.

Below the pubes are the parts of generation in men, the scrotum and penis; in women, the labia pudendi, and the rima vulvæ. The space between the genitals and the rima vulvæ. The space between the genitals and anus is called perinaum, or fork.

C. The extremities are the superior and the inferior.

The upper extremity has,

1. The shoulder or top, under which is the axilla, or

arm-pit.
2. The brachium, or arm.

2. The brachium, or arm.
3. The antibrachium, or fore-arm, in which are the bend, or feezura, and elbow.
4. The manus, or hand, which has vola, the pain;
4. The manus, or hand, which has vola, the pain;

and dorsum, the back; and is divided into the carpus, or wrist, the metacarpus, and fingers.

The lower extremely embraces,

1. The femur, or thigh, the upper and outer part of which is called coza, or the regio ischiadica.

2. The crus, or leg, in which are the genu, or knee, catum poptetis, or ham, and the sura, or call.

3. The pes, or foot, which is divided into the tarsus,

metatarsus, and toes.

The upper part of the tarsus laterally has the malleolus externus and internus, or the inner and outer

RE'GIUS. (From rex, a king.) Royal: applied to a disease, and to a chemical preparation; to the former, the jaundice, because in it the colour of the skin is like ; and to the latter, because it dissolves gold.

REGULAR. Regularis. A term applied to dis-eases, which observe their usual course, in opposition to irregular, in which the course of symptoms deviate from what is usual, as regular gout, regular small-

Regular gout. See Arthritis.

RE GULUS. (Diminutive of rex, a king: so called because the alchemist expected to find gold, the king of metals, collected at the bottom of the crucible after fusion.) The name regulus was given by chemists to

metallic matters when separated from other substances by fusion. This name was introduced by alchemists, who, expecting always to find gold in the metal collected at the bottom of their crucibles after fusion, called this inetal, thus collected, regulus, as containing gold, the king of metals. It was afterward applied to the nietal extracted from the ores of the semi-metals, which formerly bore the name that is now given to the semi-metals themselves. Thus we had regulus of ansemi-metais themselves. Thus we had regulus of arsenic, and regulus of cobalt.
Regulus of antimony. See Antimony.
Regulus of arsenic. See Arsenic.
REME'DIUM. (A re, and medeor, to cure.)

medy, or that which is employed with a view to pre-

vent, palliate, or remove a disease.

REMEDIUM DIVINUM. See Imperatoria. REMEDY. See Remedium. REMINISCENCE. See Memory.

REMITTENT. (Remittens; from remitto, to assuage or lessen.) Any disorder, the symptoms of which diminish very considerably, and return again, so as not to leave the person ever free.

Remittent fever. See Febris intermittens. Re'Mora aratra. (From remoror, to hinder, and aratrum, a plough.) See Ononis spinosa.

Remote cause. See Exciting cause.
REN. (Ren, nis, m. Ren, and row paw; because through them the urine flows.) The kidney. See Kidney. RENAL.

(Renalis; from ren, the kidney.) Appertaining to the kidney

pertaining to the kidney.

Renal artery. See Emulgent artery.

Renal Gland. Glandula renalis. Renal capsule.

Supra-renal gland. The supra-renal glands are two hollow bodies, like glands in fabric, and placed, one on each side, upon the kidney. They are covered by a double tunic, and their cavities are filled with a luquor of a brownish red colour. Their figure is triangular; and they are larger in the fectus than the kidneys; but, in adults they are larger than the kidneys. The right is and they are larger in the fectus than the kidneys. The right is affixed to the liver, the left to the spleen and pancreas, and both to the diaphragm and kidneys. They have arteries, veins, lymphatics, and nerves; their arteries arise from the diaphragmantic, the aorta, and the renal arteries. The vein of the right supra-renal gland empties itself into the vena cava; that of the left into the renal vein; their lymphatic vessels go directly into the thoracic duct; they have nerves common alike to these glands and the kidneys. They have no excre-tory duct, and their use is at present unknown. It is supposed they answer one use in the fœtus, and another in the adult, but what these uses are is uncerthin norshave supposed their use to consist in their fur-nishing lymph to dilute the blood returned, after the secretion of the urine, in the renal vein; but this is very improbable, since the vein of the right supra-renal gland goes to the vena cava, and the blood carried back by the renal vein wants no dilution. It has also been said, that these glands not only prepare lymph, by which the blood is fitted for the nutrition of the delicate fœtus; but that in adults they serve to restore to the blood of the vena cava the irritable parts which it loses by the secretion of bile and urine. Some again, have considered them as diverticula in the fce tus, to divert the blood from the kidneys, and lessen the quantity of urine. The celebrated Morgagni be-lieved their office to consist in conveying something to the thoracic duct. It is singular, that in children who are born without the cerebrum, these glands are ex-

tremely small, and sometimes wanting.

Renal vers. See Emulgent vein.
Renal vessels. See Emulgent.
RENIFORMIS. Kidney-shaped. 1. In anatomy,
this term is applied to any deviations of parts assuming a kidney-like form.
2. In horary, leaves seeds for are so called from

2. In botany, leaves, seeds, &c. are so called from their shape; it is a short, broad, roundish leaf, the base of which is hollowed out, as that of the Asarum europæum, and Sibthorpia europæa, and the seeds of Beta and Phaseolus.

RENNET. Runnet. The gastric juice and con-

RENNET. Runnet. The gastric juice and contents of the stomach of calves. It is much employed in preparing cheese, and in pharmacy, for making whey. To about a pound of milk, in a silver or earthen basin, placed on hot ashes, add three or four grains of rennel, diluted with a little water; as it becomes cold, the milk curdles, and the whey, or scrous

disposes the patient to sleep; takes off the gupes and tenesmus, and changes the stools to their natural colour and consistence.

QUA'TRIO. (From quatuor, four: so called because it has four sides.) The astragalus.

Queen of the meadow. See Spirwa ulmaria

QUERCERA. See Epialus.

QUERCERA. See E-pialus.
[Quercetrron. See Quercus tractoria. A.]
QUERCULA. (Quercula; diminutive of quercus, the oak; so called because it has leaves like the oak;
An antiquated name of the germander. See Teucrum

QUERCES. (From quero, to inquire; because divinations were formerly given from oaks by the Druids.) The oak.

The name of a genus of plants in the Linnwan system. Class Monacca; Order, Polyandria.
 The pharmacopeial name of the oak. See Quer-

ene robur

QUERCUS CERRIS. The systematic name of the tree which affords the Nux galla. Galla maxima orbiculata. The gall-nut. By this name is usually denoted any protuberance, tubercle, or tumour, produced by the puncture of insects on plants and trees of different These galls are of various forms and sizes, and no less different with regard to their internal structure. Some have only one cavity, and others a num-ber of small cells, communicating with each other. Some of them are as hard as the wood of the tree they grow on, while others are soft and spongy; the first being termed gall nuts, and the latter berry-galls, or

apple galls.

The gall used in medicine is thus produced :-the cynips quereus folii, an insect of the fly-kind, deposites its eggs in the leaves and other tender parts of the tree. Around each puncture an excrescence is presently formed, within which the egg is hatched, and the worm passes through all the stages of its metamorphosis, until it becomes a perfect insect, when it eats its way out of its prison. The best oak-galls are heavy, knotted, and of a blursh colour, and are obtained from Aleppo.

They are nearly entirely soluble in water, with the assistance of heat. From 500 grains of Aleppo galls, Sir Humphry Davy obtained by infusion 185 grains of solid matter, which on analysis appeared to consist of tannin 130: mucilage, and matter rendered insolubie by evaporation, 12; gallic acid, with a little extractive matter, 31; the remainder, calcareous earth and saline matter, 12. Another sort comes from the south of matter, 12. Europe, of a light brownish or whitish colour, smooth, round, easily broken, less compact, and of a much larger size. The two sorts differ only in size and strength, two of the blue galls being supposed equivalent in this respect to three of the others.

Oak-galls are supposed to be the strongest adstringent in the vegetable kingdom. Both water and spirit take up nearly all their virtue, though the spirituous extract is the strongest preparation. The powder is, however, the best form; and the dose is from a few grains to

half a drachm.

They are not much used in medicine, though they are said to be beneficial in intermittents. Dr. Cullen has cured agues, by giving half a drachm of the powder of galls every two or three hours during the intermission; and by it alone, or joined with camonile flowers, has prevented the return of the paroxysms. But the Doctor states the amount of his results only to be this: that, "in many cases, the galls cured the inter mittents: but that it failed also in many cases in which the Peruvian bark afterward proved successful." A fomentation, made by maceraging ball an onuce of bruised galls in a quart of boiling water for an hour, has been found useful for the piles, the prolapsus ani, and the fluor albus, applied cold. An injection, simply ad-stringent, is made by diluting this fomentation, and used in gleets and leucorrhea. The camphorated used in gleets and leucorrhua. The camphorated ointment of galls has been found also serviceable in piles, after the use of leeches; and is made by incor-porating balf a drachm of camphor with one ounce of hog's lard, and adding two drachms of galls in very fine powder. In fact, galls may be employed for the same purposes as oak-bark, and are used under the same forms

QUERCUS ESCULUS. The systematic name of the Italian oak, whose acorns are, in times of scarcity, said to afford a meal of which bread is made.

QUERCUS MARINA. See Fucus vesiculosus.

QUEECUS FRELLOS The systematic name of the willow leaved oak, the acorns of which are much sweeter than chestuds, and much eaten by the Indians. They afford, by expression, an oil little interior to off of almonds.

QUERCUS ROBUR. The oak-tree. Balanos. Quercus of errors from R. The one-tree. Bathos. Quereus— policy oblonges, glabers somatis, lobs ratundis, glanachus oblonges, of Linnaus. This valuable tree is indigenous to Britain. Its adstringent effects were sufficiently known to the ancients, but it is the bark which is now directed for medicinal use by our pharmacoperas. Oak bark maintests to the taste a strong adstringency, accompanied with a moderate bitterness Like other adstringents, it has been recommended in agues, and for restraining hæmorrhages, alvine fluxes, and other immoderate evacuations. A decoction of it has likewise been advantageously employed as a gargle, and as a fomentation or lotion in procedentia

recti et uteri

The fruit of this tree was the food of the first ages; but when corn was cultivated, acorns were neglected. They are of little use with us, except for fattening hogs and other cattle and poultry. Among the Spannards, the acorn, or glans iberica, is said to have long remainthe acorn, or gains toeract, issue to nave long it the according to the certain of a dessert. In dearths, acords have been sometimes dried, ground into meal, and baked as bread. Bartholin relates that they are used in Norway for this purpose. The inhabitants of Chio held out a long siege without any other food; and in a time of scarcity in France, A. D. 1709, they recurred to this food. But they are said to be hard of digestion, and to occasion they are said to be hard of digastion, and to be headaches, flatulency, and colics. In Smoland, however, many instances occur, in which they have supplied a salutary and nutritious food. With this view they are previously boiled in water and separated from their husks, and then dried and ground; and the pow-der is mixed with about one half, or one third of corn flour. A decoction of acorns is reputed good against dysenteries and colics: and a pessary of them is said to be useful in immoderate fluxes of the menses. Some have recommended the powder of acorns in intermit tent fever; and in Brunswick, they mix it with warm ale, and administer it for producing a sweat in cases of ane, and administer retor producing a swear in cases of eryspielas. Acords roasted and bruised have restrain-ed a violent diaurhora. For other medical uses to which they have been applied, see Murray's Appar Medic, vol. i page 100. From some late reports of the Academy of Sciences,

at Petersburgh, we learn that acorns are the best substitute to coffee that has been huberto known. communicate to them the only properties of coffee, the following process is recommended. When the acorns have been toasted brown, add fresh butter in small pieces to then; while hot in the ladle, and stir them with care, cover the lade and shake it, that the whole may be well mixed. The acous of the Holm oak are formed at Venice into cups about one inch and a hall in diameter, and somewhat less in depth. They are used for dressing leather, and instead of galls for dying

woollen cloth black.

QUERCUS SUBER. The systematic name of the corktritious than our acorns, and is sweet and often eaten when roasted in some parts of Spain. The bark, called cork, when burned, is applied as an astringent ap-The bark, plication to bleeding piles, and to allay the pain usually attendant on harmorrhoids, when mixed with an oint-Pessaries and other chirurgical instruments are

also made of this useful bark.

"QUERCIS ALEA. White oak. Most, and perhaps all the species of oak, have a high degree of astringency, depending upon tamin, which they possess in great quantities, and on account of which they are ex-tensively used in the preparation of leather. The white oak is one of the American species, which is most esteemed for this property. The bark of the young branches is probably more astringent than that of the trunk, on account of the mass of dead cortical layers, which constitutes a part of the thickness of the Oak-bark has been given in some instances as a substitute for enchona, to which, however, it is greatly interior. Its chief use is an external astringent and antiseptic. A strong decoction is employed with advantage as a gargle in cynanche, and as a lotion in gangrenous ulcers and offensive discharges of different kinds."-Big. Mat. Med. A.1

colour which is usually some shade of yellow, or brown; they are of a greater specific gravity than water; they are often odorous and sapid, easily fusible, and, on cooling, become solid.

Resin, black. See Resina nigra

Risin, clastic. See Caoutchour

Resun, clustic. See Canatchome.
Resun, white. See Resuna alba.
Resun, white. See Resuna alba.
Resun, yellow. See Resuna flaca.
RESI NA. (From pay, to flow: because it flows spontaneously from the tree.) See Resun.
RESINA ALBA. The inspissated junce of the Prinus sylvesters, see. is so called; and sometimes the resident of the distillation of oil of turpentine. See Resuna flaca. Resina flava.

See Caoutchouc. RESINA ELASTICA.

RESINA FLAVA. Resente alba. Yellow resin, what remains in the still after distilling oil of turpentine, by Yellow resin, what adding water to the common turpentine. extensive use in surgery as an active detergent, and

Ground the base of the unguentum restine fluxes.
RESINA MERKA. Colophonea. What commins in the retort after distilling the oil of aupentine from the common turpentine. This name is also given, in the common turpentine. This name London Pharmacopæia, to pitch.

RESOLUTION. (Resolutio; from resolvo, to loosen.) A termination of inflammation in which the disease disappears without any abscess, mortification, being occasioned.

The term is also applied to the dispersion of swell-

ings, indurations, &cc. RESOLVENT. (Resolvens; from resolvo, to

RESOLVENT: (Resolvens; from resolvo, to loosen;) This term is applied by surgeons to such substances as discuss inflammatory and other tumours. RESPIRATION. (Respiratio; from respiro, to take breath.) To comprehend the important function of breathing or respiration, it is not only necessary to have a knowledge of the structure of the thoracic viscera, the form of the parietes, of the chost, and to comprehend the mechanism by which the air enters passes out of it, but also to be well acquainted with the chemical and physical properties of the air, and the circulation of the blood.

The hugs are two spongy and vascular organs of a considerable size, situated in the lateral parts of the chest. Their parenchyma is divided and subdivided into lobes and lobules, the forms and dimensions of

which it is difficult to determine.

We learn, by the careful examination of a pulmo-nary lobule, that it is formed of a spongy tissue, the arcola of which are so small that a strong lens is necessary to observe them distinctly; these arcola all communicate with each other, and they are surrounded by a thin layer of cellular tissue which separates them from the adjoining lobules.

Into each lobule enters one of the divisions of the

bronchia, and one of the pulmonary artery; this last is distributed in the body of the lobule in a manno that is not well known; it seems to be transformed into memors radicles of the pulmonary veins. Dr. Magendie believes that these numerous small vessels, by which the artery terminates and the pulmonary veins begin, by crossing and joining in different manners, form the arcolae, of the tissue of the lobules. The small bronchial division that ends in the lobule, does not enter into the interior of it, but breaks off as soon as it has arrived at the parenchyma.

This last circumstance appears remarkable: because, since the bronelia do not penetrate into the spongy usue of the lungs, it is not probable that the surface of the cells with which the air is in contact is covered by the mucous membrane. The most minute anatomy cannot prove its existence in this place

A part of the nerve of the eighth pair, and some filaments of the sympathetic, are expended on the things, but it is not known how they are distributed: the surface of the organ is covered by the pleura, a serious membrane, similar to the peritonoun in its structure and functions.

Round the bronchia, and near the place where they enter into the tissue of the lungs, a certain number of lymphatic glands exist, the colour of which is almost black, and to which the small number of lymphatic vessels which spring from the surface and from the interior of the pulmonary tissue are directed.

delicate injections some information that we ought not

If we inject mercury, or even coloured water, into the pulmonary artery, the injected matter passes im-mediately into the pulmonary veins, but at the same time a part enters the bronchea, and goes out by the trucken. If the matter be injected into a pulmonary vein, it passes partly into the artery and partly into the bronchia. Lastly, if it be introduced into the trachea, it very soon penetrates into the artery, into the pulmonary veins, and even into the bronchial artery and

The lungs fill up a great part of the cavity of the chest, and enlarge and contract with it; and as they communicate with the external air by the trachea and the larynx, every time that the chest charges it is dis-tended by the air, which is again expelled when the chest resumes its former dimensions. We must then necessarily stop to examine this cavity.

The breast, or the thorax, is of the form of a cone, the summit of which is above, and the base below.

The apparent form and dimensions of the breast are determined by the length, disposition, and motions of the ribs upon the vertebra.

The chest is capable of being dilated vertically,

The chest is capable of being distates variously, transversely, forward and backward, that is, in the direction of its principal diameters.

The principal, and almost the only, agent of the vertical distation, is the diaphragm, which, in contracting, tends to lose its vaulted form, and to become a distance which which which the country of the property of the contraction. plane; a motion which cannot take place without th pectoral motion of the thorax increasing, and the abdominal portion diminishing

The sides of this muscle, which are fleshy, and cor-respond with the lungs, descend farther than the centre, which, being aponeurotic, can make no effort by itself, and which is, besides, retained by its union with

the sternum and the percentium.

In most cases this lowering of the diaphragm is sufficient for the dilatation of the breast; but it often happens that the sternum and the ribs, in changing the p sition between them and the vertebral column, produce

a sensible augmentation in the pectoral cavity.

In the general elevation of the thorax, its form necessarily changes, as well as the relations of the bones of which it is composed: the cartilages of the ribs seem particularly intended to assist these changes; as soon as they are ossified, and consequently lose their

elasticity, the breast becomes immoveable.

While the sternum is carried upwards, its inferior extremity is directed a little forward: it thus undergoes a slight swinging motion; the ribs become less oblique upon the vertebral column; they remove a little from each other, and their inferior edge is directed outward by a small tension of the cartilage. All these pheno-mena are not very apparent except in the superior ribs. A general enlargement of the thorax takes place by

its elevation, as well from front to back, as trans-

versely, and upwards.

versety, and upwards.

This endargement is called inspiration. It presents
three degrees: 1st, ordinary inspiration, which takes
place by the depression of the diaphragm, and an almost insensible elevation of the thorax; 2dly, the great
inspiration, in which there is an evident elevation of
the thorax, and at the same time, a depression of the the thorax, and, at the same time, a depression of the diaphragm; 3dly, forced inspiration, in which the dimensions of the thorax are augmented in every direction, as far as the physical disposition of this cavity will permit.

Expiration succeeds to the dilatation of the thorax; that is, the return of the thorax to its ordinary position

and dimensions.

The mechanism of this motion is the reverse of what we have just described. It is produced by the elasticity of the cartilages, and by the ligaments of the ribs, which have a tendency to resume their former shape, by the relaxation of the muscles that had raised the thorax, and by the contraction of a great number of muscles, so disposed that they lower and

The contraction of the thorax, or expiration, pre-

sents also three degrees: 1st, ordinary expiration; 2d, great expiration; 3d, forced expiration. In ordinary expiration, the relaxation of the diaphragm, pressed upwards by the abdominal viscera, which are themselves urged by the anterior muscles of With regard to the lungs, we receive from the art of this cavity, produces the diminution of the vertical

thameter; vehement expiration is produced by the relaxation of the inspiring muscles, and a slight con-traction of those of expiration, which permits the rib to assume their ordinary relations with the vertebral farther. If the abdominal and other expiratory mus But the contraction of the chest may go still cles contract forcibly, a greater depression of the dia phragm takes place, the tibs descend lower, the base of the conoid shrinks, and there is, consequently, a greater diminution of the capacity of the thorax. This is called forced expiration.

We shall now consider the air as an elastic fluid, which possesses the property of exerting pressure upon the bodies it surrounds, and upon the sides of the vessels that contain it. This property supposes, in the particles of air, a continual tendency to repulse each

Another property of the air is compressibility; that is, its volume changes with the pressure which it supports. The air expands by heat like all other bodies; its volume augments 1-480, by an increase of one degree

of Fahrenheit's thermometer.

The air has weight: this is ascertained by weighing a vessel full of air, and then weighing the same vessel after the air has been taken out by the air-pump.

The air is more or less charged with humadity Air, notwithstanding its thinness and transparency, refracts, intercepts, and reflects the light.

The air is composed of two gases that are very dif-

ferent in their properties.

lst, Oxygen: this gas is a little heavier than air, in
the proportion of 11 to 10, and it combines with all the simple bodies; it is an element of water, of vegetable and animal matters, and of almost all known bodies; it is essential for combustion and respiration. 2dly, Azote: this gas is a little lighter than air; it is an ele-ment of ammonia and of animal substances; it extinguishes bodies in combustion.

It has been thus found that 100 parts in weight of air contain 21 parts of oxygen and 79 of azote. These proportions are the same in every place and at all heights, and have not sensibly changed for these fifteen years, since they were positively established by the

mistry

Besides oxygen and azote, the air contains a variable quantity of the vapour of water, as we have already observed, and a small quantity of carbonic acid, the proportion of which has not yet been positively

The air is decomposed by almost all combustible bodies, at a temperature which is peculiar to each. In this decomposition they combine with the oxygen, and

set the azoie at liberty

Of inspiration and expiration.—If we call to mind the disposition of the pulmonary lobules, the extensi-bility of their tissue, their communication with the external air by means of the bronchia, of the trachea, and of the laryox, we will easily conceive that every time the breast dilates, the air immediately enters the pulmonary tissue, in a quantity proportionate to the degree of dilatation. When the breast contracts, a part of the air that it contains is expelled, and passes

out by the glottis.

In order to arrive at the glottis in inspiration, or to go outwards in expiration, the air sometimes traverses the nasal canal and sometimes the mouth: the position of the velum of the palate, in these two cases, deserves to be described. When the air traverses the nasal canals and the pharynx to enter or to pass out of the larynx, the velum of the palate is vertical, and placed with its anterior surface against the posterior part of the base of the tongue, so that the mouth has no communication with the larynx. When the air traverses the mouth in inspiration or expiration; the velum of the palate is horizontal, its posterior edge is embraced by the concave surface of the pharynx, and all communication is cut off between the inferior parts of the pharynx and the superior part of this canal, as well as with the nasal canals. Thence the necessity of making the sick breathe by the mouth, if it is necessary to examine the tonsils or the pharynx.

These two ways for the air to arrive at the glottis

the set wo was for the air to arrive as the going were necessary, for they assist each other: thus when the mouth is full of food, the respiration takes place by the nose; it takes place by the mouth when the nasal canals are obstructed by mucus, by a slicit the mouth is full of food, the respiration takes place by the nose; it takes place by the nose; it takes place by the mouth when the nasal canals are obstructed by mucus, by a slight before it composition is different from that ewelling of the membrane, or any other cause. The of the inspired air. The proportion of azote is much

glottle opens in the instant of inspiration, and, on the contrary, it shuts in the expiration

It appears that in a given time the number of inspirations made by one person are very different from those of another. Haller thinks there are twenty in the pace of a minute. A man upon whom Menzies made speriments respired only tourteen times in a minute. space of a minute. experiments respired only fourteen thines in a nimite. Sir II. Davy informs us that he respires in the same period twenty six or twenty seven times, Dr. Thomson says that he respires generally nineteen times; and Dr. Magendie only respines filteen times. Taking twenty times in a minute for the mean, this will give 28,800 mapprations in twenty-four hours. But this number probably varies according to many circumstances, such as the state of sleen motion, distention of the staprofishly varies according to many circumstances, such as the state of sleep, motion, distention of the sto-mach by food, the capacity of the chest, moral affections, &c. What quantity of air enters the chest at each inspiration? How much generally remains? According to Menzies, the mean quantity of air that enters the lungs at each inspiration, is 40 cubic inches, Goodwin thinks that the manifity tennaming after a

Goodwin thinks that the quantity remaining after a complete expiration is 109 cubic inches; Menzies affirms that this quantity is greater, and that it amounts

to 179 cubic inches

According to Davy, after a forced expiration, his lungs contained 41 cubic inches.

After a natural expiration ..... After a natural inspiration........... 135 After a forced inspiration..... 254 

or go out at each inspiration, or expiration, 40 inches. or go out at each inspiration, or expiration, so were. Thus, supposing 20 inspirations in a minute, the quantity of air that would enter and pass out in this time would be 800 inches; which makes 48,000 in the hour, and in 24 hours 1,152,000 cubic inches. A great number of experiments have been made by chemists to determine if the volume of air diminishes while it remains in the lungs. In considering the latest experiments, it appears, that in most cases there is no diminution; that is, a volume of expired air is exactly the same as one of inspired air. When this diminution takes place it appears to be only accidental.

By successively traversing the mouth or the nasal by successively traversing the month or the maga-cavities, the pharynx, the larynx, the trachia, and the bronchia, the inspired air becomes of a similar ten perature with the body. It most generally becomet heated, and consequently rarified, so that the same quantity in weight of air occupies a much greater space in the lungs than it occupied before it entered them. Besides this change of values, the largest of Besides this change of volume, the inspired air them. Desides this change of volune, are inspired an is charged with the vapour that it carries away from the mucous membranes of the air-passages, and in this state always, hot and humid, it arrives in the pulmonary lobules; also this portion of air of which we treat mixes with that which the lungs contained

But expiration soon succeeds to inspiration: interval, only of a few seconds, passes in general be-tween them; the air contained by the lungs, pressed by the powers of expiration, escapes by the expiratory canal in a contrary direction to that of the inspired air

We must here remark that the portion of air expired is not exactly that which was inspired immediately before, but a portion of the mass which the lungs con tained after inspiration; and if the volume of air that the lungs usually contain is compared with that which is inspired and expired at each motion of respiration, we will be inclined to believe that inspiration and expiration are intended to renew in part the considerable mass of air contained by the lungs.

This renewal will be so much more considerable as the quantity of air expired is greater, and as the fol-

lowing inspiration is more complete.

Physical and chemical changes that the air undergoes in the lungs.—The air, in its passage from the lungs has a temperature nearly the same as that of the the same, but that of oxygen and carbonic acid is quite different

In place of 0.21 of oxygen, and a trace of carbonic acid, which the atmospheric air presents, the expired air gives 0.18 or 0.19 of oxygen, and 0.3 to 0.4 of bonic acid: generally, the quantity of carbonic acid exactly represents the quantity of oxygen which has disappeared; nevertheless, the last experiments of Gay Lussac and Davy give a small excess of acid; that is, there is a little more acid formed than the oxygen absorbed.

In order to determine the quantity of oxygen con-In order to determine the quantity of oxygen con-sumed by an adult in 24 hours, we have only to know the quantity of air respired in this time. According to Lavoisier, and Sir II. Davy, 32 cubic inches are con-sumed in a minute, which gives for 24 hours 45,037. cubic inches

It is not difficult to appreciate the quantity of carbonic acid that passes out of the lungs in the same time, since it nearly represents the volume of oxygen that disappears. Thomson values it at 40,000 cubic that disapparate inches, though he says it is probably a little less; now this quantity of carbonic acid represents nearly 12 ounces avoirdupois of carbon.

Some chemists say that a small quantity of azote disappears during respiration; others think, on the contrary, that its quantity is sensibly augmented; but

there is nothing positive in this respect.

We are informed of the degree of alteration that the air undergoes in our lungs by a feeling which inclines us to renew it: though this is scarcely sensible in ordinary respiration, because we always continue it, it nevertheless becomes very painful if we do not satisfy it quickly; carried to this degree, it is accompanied with anxiety and fear, an instinctive warning of the importance of respiration.

While the air contained in the lungs is thus modified in its physical and chemical properties, the venous blood traverses the ramifications of the pulmonary artery, of which the tissue of the lobules of the lungs is partly formed: it passes into the radicles of the pulmonary veins, and very soon into these veins them-selves; but in passing from the one to the other, it changes its nature from venous to arterial blood.

Rest-harrow. See Ononis spinosa.

Resta novis. The plant named in English rest-harrow: so called because it hinders the plough; and

hence resta bovis. See Ononis spinosa.
RESUPINATUS. Resupinata. Reversed: applied to leaves, &c. when the upper surface is turned down-

wards: as in the leaf of the *Pharus latifolius*.

RESUSCITATION. (*Resuscitatio*; from *resuscito*, to rouse and awake.) Revivilication. The restoring of persons, apparently dead, to life. Under this head, strictly speaking, is considered the restoring of those who faint, or have breathed noxious air; yet it is chiefly confined to the restoring of those who are apparently dead from being immersed in a fluid, or by Dr. Curry has written a very valuable treatise hanging. on this subject; from which the following account is

"From considering," he observes, "that a drowned person is surrounded by water instead of air, and that in this situation he makes strong and repeated efforts to breathe, we should expect that the water would enter and completely fill the lungs. This opinion, indeed, was once very general, and it still continues to prevail among the common people. Experience, however, has shown, that unless the body lies so long in the water as to have its living principle entirely destroyed, the quantity of fluid present in the lungs is inconsider-; and it would seem that some of this is the natural moisture of the part accumulated; for, upon drowning kittens, puppies, &c. in ink, or other coloured lithat very little of the coloured liquor has gained admit tance to them. To explain the reason why the lungof drowned animals are so free from water, it is necessary to observe, that the muscles which form the opening into the wind-pipe are exquisitely sensible, and contract violently upon the least irritation, as we frequent ly experience when any part of the food or drink happens to touch that part. In the efforts made by a drowning person, or animal, to draw in air, the water rushes into the mouth and throat, and is applied to these parts, which immediately contract in such a man-ner as to shut up the passage into the lungs. 'This con-

tracted state continues as long as the muscles retain the principle of life, upon which the power of muscular contraction depends; when that is gone, they become relaxed, and the water enters the wind-pipe, and completely tills it. On dissecting the body of drowned animal, no particular fulness of the vessels within the skull, nor any disease of the brain or its membranes, are visible. The lungs are also sound, and the branches of the wind-pipe generally contain more or less of a frothy matter, consisting chiefly of air, mixed with a small quantity of colourless fluid. The right cavity of the heart, and the trunks of the large internal veins which open into it, and also the tunk and larger branches of the artery which carries the blood from this cavity through the lungs, are all distended with dark-coloured blood, approaching almost to blackness. The left cavity of the heart, on the contrary, is nearly, or entirely empty, as are likewise the large veins of the lungs which supply it with blood, and the trunk and principal branches of the great artery which conveys the blood from hence to the various parts of the body. The external blood-vessels are iy which conveys of the body. The external blood-vessel parts of the body. The external blood-vessel empty; and the fleshy parts are as pale as if the aniempty; them blod to death. When a body has lain in mal had been bled to death. When a body has lain in the water for some time, other appearances will also be observable; such as, the skin livid, the eyes bloodshot, and the countenance bloated and swoin; but these appearances, though certainly unfavourable, do not absolutely prove that life is irrecoverably gone. It is now known, that in the case of drowning, no injury is done to any of the parts essential to life; but that the right cavity of the heart, together with the veins and arteries leading to and from that cavity, are turgid with blood, while every other part is almost drained of this fluid. The practice of holding up the bodies of drowned persons by the heels, or rolling them over a cask, is unnecessary; the lungs not being filled with any thing that can be evacuated in this way. Therefore such a practice is highly dangerous, as the violence attending it may readily burst some of those vessels which are already overcharged with blood, and thus convert what was only suspended animation, into absolute and permanent death. The operation of inflating the lungs is a perfectly safe, and much more effectual method of removing any frothy matter they may tain: and while it promotes the passage of the blood through them, asso renders it capable of sumulating the left cavity of the heart, and exciting it to contrac-tion. As soon as the body is taken out of the water, it should be stripped of any clothes it may have on, and should be stripped of any clothes it may have on, and be immediately well dried. It should then be wrapped in dry, warm blankets, or in the spare clothes taken from some of the by-standers, and be removed any quickly as possible to the nearest house that can be got convenient for the purpose. The fittest will be one convenient for the purpose. The fittest will be one that has a tolerably large apartment, in which a fire is ready or can be made. The body may be carried in men's arms, or laid upon a door; or, in case the house be at a distance from the place; if a cart can be procured, let the body be placed in it, on one side, upon some straw, with the head and upper part somewhat raised; and in this position a brisk motion will do no harm. Whatever be the mode of conveyance adopt ed, particular care should be taken that the head be weither unferred to hamp backwards, nor to bend down ed, particular care should neither suffered to hang backwards, nor to bend down with the chin upon the breast. When arrived at the house, lay the holy on a matrass, or a double blanket, spread upon a low table, or upon a door supported by stools; the head and chest being elevated by pillows. As the air of a room is very soon rendered impure by a number of people breathing in it, for this reason, as well as to avoid the confusion and embarrassment attending a crowd, no more persons should be admitted into the apartment where the body is placed, than are necessary to assist immediately in the recovery; in general sex will be found sufficient for this purpose, and these should be the most active and intelligent of the by-standers. It will be found most convenient to divide the assistants into two sets; one set being em-ployed in restoring the heat of the body, while the other institutes an artificial breathing in the best manner they are able. Every skilful person should be pro vided with a flexible tube made of clastic gum, half a yard in length, to introduce into the wind-pipe, and also with a similar tube to which a syringe can be affixed, to be put into the esophagus. Should these not be at hand, air should be thrown into the lungs in

the best manner that can be suggested at the time Should it still be found that the air does not pass readi-ly into the lungs, immediate recourse must be had to another and more effectual method for obtaining that As this method, however, requires address and also some knowledge of the parts about the throat we would recommend that when there is not a medical gentleman present, the mode already described, he tried repeatedly before this be attempted. As a quan tity of frothy master occupying the branches of the wind pipe, and preventing the entrance of the an into the lungs, is generally the circumstance which renders this mode of inflation necessary, the month should be opened from time to time to remove this matter as it is discharged. While one set of the assistants are en in performing artificial respiration, the other should be employed in communicating near to should. The warm bath has been usually recommended body. The warm bath has been usually recommended for this purpose; but wrapping the body in blankets or woolien cloths, strongly wrong out of warm water and renewing them as they grow cold besides being a spredier and more practicable method of imparting heat, has this great advantage, that it admits of the operation of inflating the lungs being carried on without interruption. Until a sufficient quantity of warm water can be got ready, other methods of restoring warmth may be employed; such as the application of dry warm blankets round the body and limbs; bags of warm grains or sand, bladders or bottles of hot water. or hot bricks applied to the hands, feet, and under the arm-pits, the bottles and bricks being covered with flannel: or the body may be placed before the fire, or in the sunshine, if strong at the time, and be gently rubbed by the assistants with their warm hands, or with cloths heated at the fire by a warming-pan. The re storation of heat should always be gradual, and the warmth applied ought never to be greater than can be confortably borne by the assistants. If the weather happen to be cold, and especially if the body has been exposed to it for some time, heat should be applied in a very low degree at first, and if the weather be under the freezing point, and the body, when stripped, feel co d a d hearly in the same condition with one that is frozen, a will be necessary at first to rub it well with snow, or wash i, with cold water, the sudden applica-tion of heat in such cases having been found very pernicrous. In a short time, however, warmth anist be gradually applied. To assist in rousing the activity of the vital principle, it has been customary to apply va ri aus stamula ang matters to different parts of the body But as some of these appareations are in themselves hurtful, and the others serviceable only according to the time and manner of their employment, it will be proper to consider them particularly. The application of all such matters in cases of apparent death, is founded upon the supposition that the skin shill relians sensitively enough to be affected by them. It is well known however, that even during life the skin loses sensibilities. lity in proportion as it is deprived of heat, and does not recover it again until the natural degree of warnith be restored. Previous to the restoration of heat, these fore, to a drowned body, all stimulating applications are useless, and so far as they interfere with the other measures, are also prejudicial. The practice of rubbing the body with salt or spirits is now justly condemned The salt quickly frets the skin, and has, in some produced sores, which were very painful and difficult to heal after recovery. Spirits of all kinds evaporate to heat arier recovery, parts of fast, and thereby, instead of creating warrath, as they are expected to do, carry off a great deal of heat from the body. Spirit of hartshorn, or of sal volatile, are liable to the same objection as brandy or other distilled spirits, and are besides very distressing to the eyes of the assistants. When there is reason to think the skin has in any degree recovered its sensibility, let an assist aut mois en his hand with spirit of haitshorn, or can de luce, and ho'd it closely applied to one part way evaporation is prevented, and the full stimulant effect of the application obtained. posed of equal parts of spirit of hartshorn and saliad oil, well shaken together, would appear to be sufficiently stimulating for the purpose, and as it evaporates very slowly, will admit of being rabbed on without producing cold. The places to which such remedies are usually applied, are, the wrists, ankles, temples, and the parts opposite the stomach and heart. The investmes, from

retain their irritability longer than the other partir of the body, and, accordingly, various means been proposed for increasing the action of their fibres ment proposed to microscopy as a constitute three in case to testere the activity of the whole system. Totan to smoke injected 1, way of clyster is what has been generally employed with this view, and the functions, or instrument for automistering it, makes a part of the apparatus which is at present distributed by the different societies established for the recovery of drowned persons. Of late, however, the use of tobacco-smoke has been objected to, and upon very strong grounds; for when we consider that the same tenicdy is successfully employed with the very opposite intertion, namely, that of lessening the power of contracnon in the muscles, and occasioning the greatest relaxation consistent with life, it must be acknowledged to be a very doubtful, if not dangerous remedy, where the powers of lite are already nearly exhausted. Instead or tobacco-smoke, then, we would recommend a clyster, consisting of a pint or more of water, moderately warmed, with the addition of one or two table spoon warmen, with the addition of one of two lather spoon-fuls of spirit of hartshorn, a heaped ten spoonful of strong mustard, or a table spoonful of essence of pep-perunut; in detect of one or other of these, half a gillor more of rum, brandy, or gm may be added, or the warm water given alone. This step, however, need not be taken, until artificial respiration has been begun, for it will answer but little purpose to stimulate the heart through the medium of the intestines, unless we at the same time supply the left cavity with blood fitted to act upon it; which we cannot do without first re-moving the collapsed state of the lungs, and promoting the passage of the blood through them by a regular in flation. As the stomach is a highly sensible part, and intimately connected with the heart and brain, the introduction of some moderately warm and stimulating liquor into it, seems well calculated to rouse the dor-mant powers of life. This is very conveniently done by means of the syringe and flexible tube. ty of fluid thrown in ought not to exceed half a pint, and may be either warm negus, or water with the addition of one or other of the stimulating matters recom mended above, using, however only half the quantities meationed there. As soon as the pulse or beating of the heart can be felt, the inside of the nostrils may be occasionally touched with a feather dipped in spirit of hartshorn, or sharp mustard; it being found by experidende, that any irritation given to the nose, has considerable influence in exciting the action of the muscles concerned in respiration. When the natural breathing commences, the flexible tube and canula should be withdrawn, and any farther inflation that may be necessary, performed by blowing into the nostril. Letting blood has been generally thought requisite in every case of suspended animation. The practice, however, does not appear to have been founded upon any rational principle at first, and it has been continued from the force of custom, rather than from any experience of its good effects. In the case of drowned persons there is not, as in those who suffer from hanging or apoplexy, any unusual fulness of the vessels of the brain; and the quantity of blood that can be drawn from the external veins, will not sensibly diminish the accumulation of it in those near the heart. blood letting, which always tends to lessen the action of the heart and arteries in the living body, cannot be supposed to have a directly opposite effect in cases of apparent death; on the contrary, if employed here, it will hazard the entire destruction of those feeble powers which yet remain, and to increase and support which all our endeavours should be directed. When the several measures recommended above have been steadily pursued for an hour or more, without any appearance of returning life, electricity should be tried; experi ence having shown it to be one of the most powerful stimuli yet known, and capable of exciting contraction in the heart and other muscles of the body, after every other stimulus had ceased to produce the least effect. Moderate shocks are found to answer best, and these should, at intervals, be passed through the chest in different directions, in order, if possible, to rouse the heart Shocks way likewise be sent through the limbs, and along the spine; but we are doubtful how far it is safe or useful to pass them through the brain, as some have recommended. The body may be conveniently insulated, by placing it on a door, supported by a numinternal situation and peculiar constitution, ber of quart-bottles, whose sides are previously wiped

with a towel, to remove any moisture they may have contracted. By experiments made on different animals, it is found that the blood passes through the lungs most readily when they are fully distended with air; consequently, that if the lungs of a drowned person are in flated, and kept in the expanded state while the elec-tric shock is passed through the chest, the blood accumulated in the regul cavity of the heart and its vessels will move forward without any resistance, should the heart be brought to contract upon it. As soon as the shock is given, let the lungs be emptied of the air they contain, and filled again with feesh air; then pass another shock, and repeat this until the heart is brought into action, or until it appear that all farther astengia are useless. in order more certainly to pass the shock through the heart, place the knob of one discharging rod above the collar-hone of the right side, and the knob of the other above the short ribs of the left: the position of the discharging rods, however, may be changed occasionally, so as to vary the direction of the Two thick brass wires, each about eighteen inches long, passed through two glass tubes, or wooden cases, well varmshed, and having at one end a knob, and at the other a ring to fasten the brass chain to, form very convenient discharging rods; and by means of them, the shock may be administered without the risk wine whey, dis-possed, and other light and moderately nourishing drink, should now be given, and gentle sweating promoted, by wrapping the feet and legs in flannels well wrung out of hot water. If the stomach and bowels feel distended and uneasy, a clyster, con-sisting of a pint of warm water, with a table spoonful of common salt, or an onuce or more of Glanber's or Epsen salt, dissolved in it, may be administered. The epsent succussorved in it, may be administrated. The general practice in this case, is to give an emetic; but considering that the powers of the machine are still very weak, the agitation of vomiting is certainly hazardous. The patient should on no account be left zardous. The patient should on no account be left able to assist himself; several persons having relapsed and been lost from want of proper attention to them, after the vital functions were, to all appearance, completely established. Either from the distention which the above of the house the state of the language of the house of the language of th the arteries of the lungs have suffered, or from the sudden change from great coldness to considerable warmth, it now and then happens, that the patient is attacked soon after recovery, with inflammation of some of the parts within the chest. This occurrence is pointed out by paint the breast or side, increased on inspiration, and accompanied with frequent, and full or hard pulse, and accompander with request, and tur or man purse, and sometimes with cough. Here the taking away some blood from the aum, or the application of cupping glasses, leeches, or a blister, over the seat of the pain, will be very proper; but the necessity for these mea-sures, as well as the times for putting them in practice, should be left to the judgment and discretion of a medical person. Dull pain in the head, lasting sometimes for two or three days, is by no means an unfrequent complaint in those who are recovered from this and from the other states of suspended animation; and here also a moderate bleeding from the neck, either with the lancet or with cupping-glasses, may prove serviceable.

In hanging, the external veins of the neck are compressed by the cord, and the return of the blood from the head thereby impeded, from the moment that sus pension takes place, but as the heart continues to act for a few seconds after the wind-pipe is closed, the blood which is sent to the head during this interval, is necessarily accumulated there. Hence it is, that in hanged persons the face is greatly swoln, and of a dark red or purple colour: the eyes are commonly suffused with blood, enlarged, and prominent. On dissection, the blood-vessels of the brain are found considerably the blood-vessels of the brain are found considerably distended; but, in general, no inriher marks of discase appear within the skull. The lungs are found generally quite collapsed, and free from frothy matter. The heart, and the large blood-vessels adjoining to it exhibit the same appearances as in the bodies of drowned persons. From the great accumulation of blood in the vessels of the head, many have been of opinion, that hanging kills chiefly by inducing apo-

plexy; but the following experiment made at Edinburgh soveral years ago, by an eminent medical protessor there, clearly proves that in hanging as well as in desort mere, crearry proves main manging as were as-drowning, the exclusion of air from the lungs is the immediate cause of death. A dog was suspended by the neck with a cord, an opening having been previ-ously made in the wind pape, below the place where the cord was applied so as to admit air note the lungs. In this state he was allowed to hang for thice-quarters of an hour, during which time the Orculation and breathing went on. He was then cut down without appearing went on. The was then cut down without appearing to have suffered much from the experiment. The cord was now shifted below the opening into the windpipe, so as to prevent the ingress of air to the lungs; and the animal being again suspended, he was comand the animal being again suspended, he was com-pletely dead in a few minures. Upon the whole then, it appears, that the same measures recommended for drowned persons, are also necessary there; with this addition, that opening the jugallar veins, or applying cupping-glasses to the neck, will tend considerably to cupping classes to the neck, will lend considerably to facilitate the restoration of the, by besseining the quantity of blood contained in the vessels of the head, and thereby taking off the pressure from the beam. Except in persons who are very full of blood, the quantity taken away need seldom exceed an ordinary tea-cupful, which will in general be sufficient to unload the vessels of the head without weakening the pow-

RETE. A net. Applied to cellular membranes, vessels, nerves, parts of plants, &c. which are formed

of meshes, like a net.

The fine net-work of the extremities of the pulmonary afteries.

RETE MARABILE. A network of blood-vessels in the

basis of the brain of quadrupeds.

RETE MUCOSUM. Corpus returnare; Corpus muco-sum; Mucus mulpigni. A mucous substance, depo-sited in a net-like form, between the epidermis and cutis, which covers the sensible cutaneous papilla, connects the epidermis with the cuts, and cross the colour to the hody; in Europeans it is of a white colour, in Ethiopians black. See Skin.

note, in Ethiograps black. See Skin.

RETICULAR. (Reticularis; from rete, a net.)
Intervence like anet.

RETHORM. (Retiformis; from rete, a net, and
forma, resemblance). Net-like.

RETINA. (From rete, a net.) Amphiblestraides.
The third, or innermost membrane of the eye, expanded round the choroid coat, to the ciliary ligament.

It is the time organ of vicion, and is tenued by an organic It is the time organ of vision, and is formed by an expansion of the pulp of the optic nerve. See *Enson*.

Retina/culum. (From retineo, to prop or restant.)

An instrument for keeping the bowels in their

RETUN ASPHALTUM. See Retinite.
RETUNITE. Retin-asphalt of Hatchet. A yellowish and reddish-brown coloured mineral, composed of Desconshire, adhering to coal.

RETORT. (Retorta; from retorques, to bend back

REFORT. (Retorta; from retorqueo, to bend back again: probably so called, because its neck was curved and bent back again.) A che mical vessel employed for many distillations, and most frequently for those which require a degree of heat superior to that of boiling water. They differ in form and materials: when piecced with a little hole in their roof, they are called tubulated re-torts. They are made of common glass, stone-ware,

RETRA'CTOR. A muscle, the office of which is to retract the part into which it is inserted.

RETRACTOR ASSULT ORIS. See Buccinator.

RETRAHENS. Drawing back.

RETRAHENS. Drawing back.
RETRAHENS AURIS. Posterior auxis, of Winslow.
RETRAHENS AURIS Posterior auxis, of Winslow.
RETRAHENS AURIS Posterior auxis, of Winslow.
Retrakens auxicula, of Albinus. Lieprimens auxicula, of Douglas. Retrakens auxiculam, of Cowper; and Mastoide canckenien, of Dumas. Two small bundles of muscular fibres which arise from the external and posterior part of the mastoid process of the temporal bone immediately above the insertion of the sternocleido mastoideus muscle. They are inserted into that part of the back of the ear which is opposite to the septum which divides the cometa and scapha. Their use is to draw the car backwards, and stretch Their use is to draw the ear backwards, and stretch

RETROCEDENT. Retracedrus. Retrogradus When a disease that moves about from one part to another, and is sometimes fixed, has been some time in

its more common situation, and retires from h, It is ! said to be retrocedent,

RETROGRADE. See Retrocedent.

RETROVERSION. Retroversia. See Uterus, 10

trov. Ision of

REFUSUS. Retuse. Applied to a leaf, which ends in a broad shallow notch, as in the Rumer day years. REFUSSITE. A vegetable compound saline, found as an offlorescence on the surface, in the country round Seidlitz and Seidschutz

REVERBERATORY. See Furnace.

REVOLUTUS. Revolute, rolled back. Applied to a leaf, the margin of which is turned or rolled back. Applied to

wards, as in Andremoda policional starting of found of found back wards, as in Andremoda policional REVILSION. (Revulses, from revello, to draw away) An old term used by the humonal pathologists, signifying the drawing of humones a contrary

Way.
RHABA RBARUM. (From Rha, and bacharus,
wild so called because it was brought from the banks.) of the Rha, now called the Wolga, in Russia.) See

RHABARBARUM ALBUM. See Concolvulus mechoa-

RHABARBARUM ANTIQUORUM. See Rheum rhapon treum.

RHABARBARUM DIOSCORIDIS. See Rhoum rhipon-

RHABARBARUM MONACHORUM. See Rumex pa-

RHABARBARUM RHAPONTICUM. See Rhoum chapon tieum.

RHABARBARUM SIBURICUM. See Rheum undalatum.

RIJABARRAGI A SHERRETA. See Rheum. RIJABARRAGI A YAFTARRETA. See Rheum. RIJACHIA LGIA. (From payrs, the spine of the back, and ayar, pain.) A pain tine spine of the back. RIJACHIS. (Payrs, the spine of the back.) I. In anatomy, the spine.

2. In botany, the common stalk or receptacle of the florers in the spikelets of grasses, or of the spikelets themselves; as in Lahram, Triticum, Hordeum, &c. It also means the 11b or leaf stalk of ferns, which is often winged or bordered.

RIIA (HISA GRA. From ouxes, the spine of the back, and uyou, a prey.) A sudden pain in the spine, applied to gont fixed in the spine of the back.

Rityem 14. From payes, the spine of the back.) A muscle belonging to the spine of the back.

See Rachitis.

RHACO'SIS. (From paros, a rag.) A ragged ex-

RHA'GAS. (Rhagas, adis. f.; from onyvent to Fissura Achapor cleft. break or bouise.

REACGOIDES. From 912 a grapessione, and tabos, a likeness; so called from its likeness in colour to a grapessood. Applied to the next.

grape-scent: Applied to the retrieval of strong because of RHA MNUS. From octor to destroy; because of its many thorus.) I. The name of a genus of plants in the Linnasan system. Class. Pentaadem; Order, . Monogynia. Buckthorn.

2. The pharmacopicial name of the purging buckthorn. See Rhamnus catharliens.

RHANNES CATHARTICES. The systematic name of the buckthorn. Spina cervina; Rhamnus solutinus; Spina infectoria; Cervispina. Purging buckthorn. The fruit or berries of this shoul Rhamnus—spens terminalibus floribus quadrendes dimeis, joles ocatic. caule erecto, of Linnaus, have been long received into the materia medica: they contain a pulpy, deep green juice, of a faint unpleasant smell, a litterish, acrid, mauseous taste, which operates breakly by stool, producing thirst, dryness of the mouth and fances, and severe gripugs. unless some diluting liquor be drank plentifully after it: at present it is rarely prescribed except as a drastic The dose is said to be about twenty of the Durge. fresh berries in substance; twice or thrice that number in decoction; a drachm or a drachm and a half of the dried berries; an ounce of the expressed juice, or half an ounce of the rob or extract, obtained by inspissating the juice.

RHAMNUS FRANGULA. The systematic name of the black alder. Frangula alnes: Alnus nigra; Rham nus-inermis floribus monogynis hermophroditis, folies

integerrimes, of Linnaus. 944

All the parts of this tree, as well as of the common aider, are astringent and briter. The bark is most astringent, a decottion of it has cured agues, and is other used to repel inflammatory tunous of the front, by way of gorgle. The inner yellow bark of the tunik, or took, given to all, vomits, purges, and gripes, but joined with aromatics, if operates more agreeably. An invision, or decoction in water, inspissated to an extend on the property of the prop tract, acts yet more maidly than these. emptered by the common people in dropsy and other drops. The beenes of alder are purgative. They as not in use under their own name, but are often substituted to backthorn berries; to discover which, it should be observed, that the berries of the black alder have a back skin, a blue juice, and two seeds in each of them; whereas the buckthorn berries have a green juice, and commonly four seeds. The substitution of plants belong to the same genus, and the berries do not

differ greatly.

D.: Marray, of Gottingen, recommends, from his own experience, the leaves of alder chopped in small pieces, and heated over the fire, as the best remedy with which he is acquainted for dispersing milk in the breasts.

RHAMNUS ZIZYPHUS. The systematic name of the tree which adords the jujobs. A half-dried fruit of the plum kind, about the size and shape of an olive, Jujubes, when in perfection, have an agreeable, sweet taste, and in the southern parts of Europe, where they are common, they make an article of food in their recent state, and of medicine when half dried.

RHAPHANUS. See Raphanus. RHAPO NTICUM. (The Rha of Pontus, i. c. the Rha, in Russia, a river on the banks of which it grew.) See Icheum rhaponticum.

Rhopontic rhubarb. See Rheum rhaponticum. RHAPONTICUM VULGARE OFFICINARUM. See Con-

RHATA'NIA. See Krameria.
RHAZES, was born at Rhei, in the province of
Khorasan, about the year 852. He is said not to have
commenced the study of medicine till more than thirty years old, having previously removed to Bagdad: by indefatigable application he obtained the highest reputation; and was selected to superintend the cele-brated hospital of that city. He has been considered as the Galen of the Arabians; and from his assiduous at-tention during the rest of a long file, to the varieties of disease, he obtained the appellation of the experimental. The transfer much is minuted of heart today agrees. discree, he obtained the appellation of the experienced. He travelled much in pursuit of knowledge, particularly into his native country; and was much consulted by Abnauzor, the chief of that province, to whom several of his writings are dedicated, as well as by other princes. Abl Osbaia enumerated 226 treatises composed by Rbazes, but only a few of these are preserved through the medium of Latin translations. The ten books delegated as Abnauzor, were seasoned. drough the hierarm of Latin transations. The ten-books dedicated to Abnanzor, were designed by him as a complete body of physic, and indeed may be regarded as the great magazine of all the Arabian medicine; the ninth book in particular, treating of the cure of diseases, was in such general estimation for several centuries, as to be used as a text book by professors. However, they contain little more than the substance of the writings of the Greek physicians; though certainly the small pox, and a few other diseases, are distinctly described by Rhazes. He was author also distinctly described by Rhazes of children. The use of chemical preparations in medicine appears likewise to have originated with him, or at least with some of the Arabians. He died in the year 932. Besides the ten books above mentioned, and the tract on smallpox, there are extant by him a sort of commonplace book, entitled "Continens;" and six books of Aphorisms, under the title of "De Secretis."

RHIS' M. (From Rho, a river in Russia, now called the Wolga, from the banks of which it was first housely, I. The name of a genus of plants in the Lumean system. Class, Enneandria; Order, Trigunia. Rhubarb.

2. The pharmacopæial name of the officinal rhu barb.

Dib. See Rheum pulmatum.
RHEUM PALMATUM. The systematic name of the officinal rhubarb. Rhabarbarum; Rheon; Rhaum; Barbaria; Lupothum orientale; Lapathum chinense; Rhabarbarum rerum ; Rhabarbarum tartarumm. Rhubarb. It was not until the year 1732 that naturality became acquainted with any plant which seemed to | to 3 j. afford the rhabarbarum officinale; when some plants received from Russia by Jussieu at Paris, and Rhaud at Chelsea, were said to supply this important desideratum, and as such were adopted by Linnaus, in his first edition of the Species Plantarum, under the name of Rheum rhabarburum. This, however, was not generally received as the genuine rhubarbplant; and with a view to ascertain this matter more completely Kaw Boer-haave procured from a Tartarian rhubarb merchant the seeds of those plants whose roots he annually sold, and which were admitted at Petersburgh to be the true rhubarb. These seeds were soon propagated, and were discovered by De Gorter to produce two distinct species, viz. the Rheum rhabarbarum of Linnaus, or as it has since been called, the Rheum undulatum, and another species, a specimen of which was presented to Linnaus, who declared it to be a new one; and it was first mentioned in the second edition of the Species Plantarum, in 1762, by the name of Rheum palmatum. Previous to this time, De Gorter had repeatedly sent its seeds to Linnaeus, but the young plants which they produced constantly perished; at length he obtained the fresh root, which succeeded very well at Upsal, the result of the successful very well at 1 psai, and alterward enabled the younger Linnaus to describe this plant, ann. 1767. But two years antecedent to this, Dr. Hope's account of the Rh was palmatum, as it grew in the Botanic Garden near Edinburgh, had been read before the Royal Society at London; and of the read before the Royal Society at London; and of the great estimation in which this plant was held by him, we have the following proof:—"From the perfect simi-larity of this root with the best foreign rhubarb, in taste, smell, colour, and purgative qualities, we cannot doubt of our being at last possessed of the plant which produces the true rhubarb, and may reasonably entertain the agreeable expectation of its proving a very important acquisition to Britain."

But from the relation we have given, it appears that both the seeds of the R. palmatum, and the R. undula-tum, were transmitted to Petersburgh, as those of the true rhubarb; we are therefore to conclude, that the former species has an equal claim to this importance with the latter; and from further inquiries made in Russia, there is the best authority for believing that the R. compactum also affords this very useful drug. The seeds of the R. palmatum were first introduced into Britain in 1762, by Dr. Hounsy (who sent them from Russia), and were supposed to be a part of that already mentioned; and since their prosperous cultivation by the late professor of botany at Edmburgh, the propagation of this plant has been gradually extended to most of our English gardens, and with a degree of suc-cess which promises, in time, to supersede the importa-tion of the foreign root. Two sorts of thubarb roots are usually imported into this country for medical use viz. the Chinese and the Tartary rhubarb; the first is in oblong pieces, flattish on one side, and convex on the other; compact, hand, heavy, internally of a dull red colour, variegated with yellow and white, and when recently powdered, appears yellow, but on being kept becomes gradually redder. The second is the most valuable, and is brought to us in roundish pieces, with a large hole through the middle of each; it is more soft and friable than the former sort, and exhibits, when broken, many streaks of a bright red colour. "The marks of the goodness of rhubarb are, the liveliness of marks of the goodness of monato are, the inventors of its colour when cut; its being firm and solid, but not flinty or hard; its being easily pulverable, and appearing when powdered of a line bright yellow colour; its imparting to the spittle when chewed a deep saffron tinge, and not proving slimy or mucilaginous in the month; its taste is subacrid, bitterish, and somewhat styptic; the smell lightly aromatic."

The purgative qualities of rhubarb are extracted more perfectly by water than by rectified spirit: the part remaining after the action of water is almost, if not wholly, inactive; whereas after repeated digestion in spirit, it proves still very considerably purgative. The vietue of a watery infusion, on being inspissated by a gentle heat, is so much diminished, that a drachm of the extract is said to have scarcely any greater effect than a scruple of the root in substance. The spirituous tincture loses less; half a drachm of this extract proving moderately purgative. The qualities of this root, says
Dr. Cullen, are that of a gentle purgative, and so gentle
that it is often inconvenient on account of the bulk of the dose required, which in adults, must be from 3 ss.

When given in a large dose it will occasion to 4). When given in a large dose it will occasion some griping, as other purgatives do; but it is hardly ever heating to the system, or shows the other effects of the more drastic purgatives. The purgative quality is accompanied with a bitterness, which is often useful in restoring the tone of the stomach when it has been allowed to the most part and for the proper property. lost; and, for the most part, its bitterness makes it sit better on the stomach than many other purgatives do Its operation joins well with neutral laxatives; and both together operate in a less dose than either of them would singly. Some degree of stypticity is always evident in this medicine; and as this quality acts when that of the purgative has ceased, so in cases of diarrhea, when any evacuation is proper, rhubarb has been considered as the most proper remedy to be employed. It must, however, be remarked here, that, in many cases of diarrhea, no further evacuation than what is occasioned by the disease, is necessary or proper. The use of rhubath, insubstance, for keeping the belly regular, for which it is frequently employed, is by no means proper, as the astringent quarity is ready to undo what the purgative has done; but it is found that the purpose mentioned may be obtained by it, if the rhubarb is chewed in the mouth, and no more is swallowed than what the saliva has dissolved. And it must be remarked, that in this way employed it is very useful to dyspeptic persons. Analogous to this, is the use of rhuharb in solution, in which it appears to me, that the astringent quality is not so largely extracted as to operate so powerfully as when the rhubarb was employed in substance.

The officinal preparations of this drug are, a watery and a vinous infusion, a simple and a compound tine-

ne. It is also an ingredient in different compositions. Киким килромти им. The systematic name of the RHEIM RHAPOTH CM. The systematic name of the rhapontic rhubath. Rhaporatican; Rhabarbarum dioscoralis; Rhabarbarum antiquorum. The root of this species appears to have been the true rhubath of the ancients. By some it is confounded with the modern rhubarb, though considerably different from that root in appearance, as well as in quality. The rha pontic is of a dusky colour on its surface, and a loose spongy texture; is more adstringent than rhubaib, and less purgative; in this last intention, two or three

ress purgative; in this tast intention, two or three drachins are required for a dose.

Riferm underlying. The Systematic name of the Siberian rhubarb. The Rheum—folius subrillosis indulativs petiolis adjustibus, of Lannaus. If possesses similar virtues to those of the palmate species, and is

RHE UMA. (From μεω, to flow.) The discharge from the nostrik or lungs arising from cold, hence the following lines of the school of Salernum:

Se fluit ad pectus, dicatur rheuma catarrhus,

So from ad pectus, deadur rheuma calarrhus, ad fames broughas, ad naves ests corpus!

RHEUMATISMUS. (From pequatico, to be afficted with defluxions.) Dolores rheumatici et arthrities, of Hullman. Myositis, of Sagar. This is a genus of disease in the Class Prierrie, and Order Pleymasic, of Culton, characterial by wearing name in the works. of disease in the Class Prierrie, and Order Regmassie, of Cullen; characterized by pyeesia, pams in the joints, increased by the action of the muscles belonging to the joint, and heat of the part. The blood, after veneseeinon, exhibits an inflammatory crust. Rheumatism is distinguished into acute and cheronic. The acute is presented by a chiracter when the control of the control ceded by shivering, heat, thirst, and frequent pulse; after which the pain commences, and soon fixes on the joints. The chronic rheumatism is distinguished by pain in the joints, without pyrevia, and is divided muo three species; lumbago, affecting the loins; sciatica, affecting the hip; and arthrodynia, or pains in the joints. The acute rheumatism mostly terminates in one of these species.

Rheumatism may arise at all times of the year, when there are frequent viessitudes of the weather, from heat to cold, but the spring and autumn are theseasons in which it is most prevalent; and it attacks persons of all ages; but very young people are less subject to it than adults.

Obstructed perspiration, occasioned either by wearing wet clothes, lying in damp linen, or damp rooms, or by being exposed to cool air when the body has been much heated by exercise, is the cause which usually produces rheumatism. Those who are nauch afflicted with this complaint, are very apt to be sensible of the approach of wet weather, by finding wandering pains about them at that period.

Acute rheumatism usually comes on with lassitude

and rigours, succeeded by heat, thirst, anxiety, restlessness, and a hard pulse; soon after which, excruciating pains are felt in different parts of the body, but more pane advisor, in the joints of the shoulder, wrist, knees, and ankies, or perhaps in the Inp. and these keep shirting from one joint to another, leaving a reduces and swedling in every part they have occupied, as the wise a great tenderness to the touch. Towards evemag there is usually an exacerbation, or increase of free; and daring the might, the pains become more severe, and shift from one joint to another. Early in the course of the disease, some degree of

sweating usually occurs; but it is seldom so copious as cither to remove the pains or to prove critical. beginning, the urine is without sediment; but as the disease advances in its progress, and the fever admits Of considerable remissions, a latermous sediment is de-

posted, but this by no means proves critical.

poshed, but this by he means proves erinea. Chrone themmatism is attended with pains in the head, shoulders, knees, and other large joints, which, at times, are comined to one particular part, and at others shift from one point to another, without occasioning any fever; and in this manner the complaint continues often for a considerable time, and at length

goes off.

No danger is attendant on chronic rheumatism; but a person having been once attacked with it, is ever afterward more or less hable to returns of it; and an incurable anchylosis is sometimes formed, in consequence of very frequent relapses. Neither is the acute rheumatism frequently accompanied with much danger, but, in a few instances, the patient has been destroyed by general inflammation, and now and then by a metastasis to some vital part, such as the head and lungs. Acute rheumatism, although accompanied with a considerable degree of inflammation in particular parts, has seldom been known to terminate in suppuration; but a scrous or gelatinous effusion takes place,

Rheumatism seldom proving fatal, very few oppor funities have offered for dissections of the disease. In the rew which have occurred, the same appearances have been observed as in inflammatory fever, effusion within the crategin, and now and then affections of

to the acone rheumatism the general antiphlogistic place of treatment is to be pursued, so long as the fe balle and inflammatory symptoms are severe. be some times proper to begin by a moderate abstraction o blood, where the patient is young and plethoric, and it the disease attacks any important part, this and it the usease arranges any important part, this measure must be more a tively pursued; but in general it does not appear necessary. Even the local abstraction or blood is hardly advisable, unless the affection be very mach fixed to one part and the symptoms negent and it may be said, that most local applica-tions are rather likely to drive the disease from one pare to another, than to afford permanent relief. per to amenica, that is attoring perimenal relief. After freely opening the howels, the class object is to en-dear-our to produce a general and mild displaces is to openin or other narrow, which may also alleviate the part, and occasionally by the warm bitch, where the skin is particularly barsh and dry. Digitalls, by mocompared with these medicales. As the fever spates, and the strength appears impaired, ionics should be given to promote the convance are of the patient, and ob rate a relapse; and where the inflammation re mains fixed in a particular point, after the pyrexia has ceased, fomentations and other local measures, acceased, inneurations and other local incastices, ac-cording to the state of the part, may be employed for its removal. In the arthronogon, or chrome rheuma-tism, as it is commonly called, the remedies of chief-efficacy are stimulant diaphoretics in moderate doses regularly preservered in, assisted by various local means of promoting the circulation through the affected part. Anodynes may be also used with advantage both internally and locally: and attention should be paid to support the strength, and correct any observa Post of Support and Subsect and Confect and Observable defining received functions.

RHETIME (From 960, to flow.) A defluxion, a Compact and or caused.

RHEST MIC ACID. An acid said to be peculiar to

RHER MC ACID. An acid said to be peculiar to rhubarb, but not yet sufficiently examined.

RHIBE'SA. (From colors, a current.) See Ribes.

RHINÆUS. (Michens, se musculus; from previous See Compressor n Uris.

RHINENCHY'TES. (From per, the mose, and eyyow, RHINOPHO NIA. (From ρev, the nose, and φωνη,

Sin voice.) A fatsat voice.

Rinas ones. (From gegs, the root, and append, to serze.) An instrument for taking out the roots or stumps of teeth.

RHOULA. See Rhodiola.

RHODIOLA. (A diminutive of Rhodia; not a, a rose; so called because its root smells like the damask rose). The name of a genus of plants. Class, Diacea; Order, Octanaria.

Process; Chair, Octanora.

Rhomodox Roska. The radix rhodise of some pharmacopanas is the produce of the Rhodiola rusea, of Linnaus, called rosewort. When dry, it has a very pleasant smell, resembling that of the damask rose. In this odorous matter the medical virtue of the root. resides Poultices in which this root enters as a chief ingredient are said to allay violent pains of the head.

RHO DIUM. (From podov, a rose; a wood which smells tike roses). I. Rhodium, or rosewood. 2. A new metal discovered among the grains of crude platina, by Dr. Wollaston. The mode of obtaming it in the state of a triple salt combined with murratic acid and soda has been given under the article Palluation.
This may be dissolved in water, and the metal preci-pitated from it in a black powder by zinc.
This powder, exposed to heat, continues black; but

with borax it acquires a white metallic listre, though it remains infusible. Sulphur, or arsenic, however, renders it fusible, and may afterwand be expelled by continuing the heat. The bitton, however, is not Its specific gravity appears not to ex-

Rhodium unites easily with every metal that has been fired except mercury. With gold or silver it forms a very malleable alloy, not oxidated by a high degree of heat, but becoming incrusted with a black oxide when slowly cooled. One sixth of it does not degree of near, but becoming increased with a datack oxide when slowly cooled. One sixth of it does not perceptibly after the colour of gold, but renders it much less fassible. Neither mine nor intro-muratic acid acts on it in either of these alloys; but if it be fused with three parts of bismuth, lead, or copper, the alloy is entirely soluble in a mixture of intricacid with two parts of immunic.

The oxide was soluble in every acid Dr. Wollaston tried. The solution in muriatic acid did not crystallize by evaporation. coloured solution with alkohol. Muriate of ammonia and of soda, and intrate of potassa, occasioned no precipitate in the murratic solution, but formed with the oxide triple saits, which were insoluble in alkohol. Its solution in uttre acid likewise did not crystallize, but silver, copper, and other metals precipitated it.

The solution of the triple salt with muriate of soda.

was not precipitated by murrate, carbonate, or hydrosulphuret of ammonia, by carbonate or ferroprussiate of potassa, or by carbonate of soda. The caustic alkalies however throw down a yellow oxide, soluble in excess of alkali; and a solution of platina occasions

The title of this product to be considered as a dis-tinet metal was at first questioned; but the experi-ments of Dr. Wolfaston have since been confirmed by

Descouls.

RIFODICM LIGNUM. See Aspulathus canariensis.
RHODODE'NDRON. (From polov, a rose, and repor, a tree; so called because its flowers resemble carego, a tree: so called because its flowers resemble carego, a tree: so called because its flowers resemble the rose.) 1. The name of a genus of plants in the Lumanus system. Class, Decandera; Order, Mono-

2. The pharmacoporial name of the oleander. See Rhododendron chrusanthemum.

RHODODENDRON CHRYSANTHEMUM. The systematic name of the oleander, rosebay, or yellow rhododendron. This species of rhododendron. folias oblangis impunctis supra scabris renosissimis, corolla rotota recognizer gemma florifera ferrageme tamentasa, has not yet been introduced in Britain; it is a native of Scherna, affecting mountainous situations, and flow-

This photo and its medical virtues were first de-senting to 1547, by Ginelin and Haller. Little atten-tion, however, was paid to it, till the year 1779, when it was showedly recommended by Koolpin as an efficicious medicine, iet only in rheumatism and gout, but even in venereal cases; and it is now very generally

The leaves, which are the part directed for medicinal use, have a bitterish subadstringent taste.

Taken in a large dose, they prove a narcotic poison;
and, in moderate doses they are said to occasion heat, thirst, a degree of delirium, and a peculiar sensation of the parts affected.

As a powerful and active medicine, this shrub, says Dr. Woodville, may probably be found an addition to the materia medica. Dr. Home, who tried it unsuc-cessfully in some cases of acute rheumatism, says, "It appears to be one of the most powerful sedatives which we have, as, in most of the trials, it made the pulse remarkably slow, and in one patient reduced it to thirty-eight heats. And in other cases, in which the rhododendron has been used at Edinburgh, it has been productive of good effects, and accordingly it is now introduced into the Edmburgh Pharmacopæia. The manner of using this plant by the Siberans, was by putting two drachms of the dried leaves in an earther not, with about ten ounces of boiling water, keeping t near a boiling heat for a night; and this they took in the morning, and by repeating it three or four times, generally effected a cure.

RHODO'MELL. (From podov, the rose, and µελι,

mey.) Honey of roses. RHCEADEÆ. (From *rhwas*, the red poppy.) name of an order in Linnaus's Fragments of a Natural Method, consisting of poppy and similar plants, the calvx of which is caducous, and the fruit a capsule

RHCE'AS. (Rhwas, ados. m.; from ρεω, to flow.) The wild poppy is sometimes so called. See Papacer

A glistening and pearly white

mineral, which is found in primitive rocks, with quartz Psitzsei, in the Tyrol.

RHOMBOIDEUS. (From pophos, a geometrical figure, whose sides are equal but not right angled, and rates, use inblance. Rhombooksis major and minor. Rhombooksis major and minor. Rhombooksis major and Coveper: and Cervice dorso scapadarce, of Dunas. This muscle, which is so named from its shape, is situated immediately under the trapezius. We find it usually, though not always, divided into two portions, which Abbins describes as two distinct muscles. The uppermost of these, or chombookers manor, arises tendinous from the spinous processes of the three infecior vertebase of the process of the three infecior vertebase of the more in the control of the contro figure, whose sides are equal but not right angled, and neck, and from the ligamentum colli; the lowermost. or rhomboideus major, arises tendmons from the spinous processes of the back; the former is inserted into the basis of the scapula, opposite to its spine; the latter into all the basis of the scapula, below its spine. Its use is to draw the scapula obliquely upwards, and

Its use is to than the directly backwards. See Bitterspar. RHOMBSP M. See Bitterspar. RHOMBUS. Diamond-shaped, approaching to a RHOMBUS. Diamond-shaped, approaching to a child to happy, &c., as those of the Chenoman intentioning. square: applied to leaves, &c.; as those of the Chen podium olidium, and to the pod of Cicer arientinum.

RHONCHUS, (Poykoy, honchus, sterter.) Saoring, RHOPALO'SIS, (From parador, actub.) A disor-der in which the hair cleaves together, and hanss down in clusters resembling clubs. The plained hair. See

RHUBARB. See Rheum.

Rhubarb, monk's. See Rumex patientia.

Rhubarb, moth S. See Rheum parental.
Rhubarb, rhapontic. See Rheum rhaponticum.
RHUS. (From 966, to flow: so called because it stops fluxes.) The name of a genus of plants in the Linnean system. Class, Pentandria; Order, Trigy-

Linnean system. Class, rentariat; Order, Trigg-nia. The sumach-tree.
RHUS BELGICA. The Dutch myrtle is sometimes so termed. See Myrica gale.
RHUS CORLARIA. Sumach. Elm leaved sumach. This plant, Rhus—balins pennatis obtassuscule servatus oralibus sultars villosis, of Linnaus, is a small tree, a native of the south of Europe. It is singular that this is the only species of the genus rhus which is per-fectly innocent; the others being active poisons. Both the leaves and berries of this plant are used medicinaily, as astringents and tenies: the former are the most powerful, and have been long in common use, where they may be easily obtained in various com-plaints indicating this class of remedies. The berries, where they may be easily obtained in various complaints indicating this class of remedies. The herries, appeared, which proved plaintly it was the effect of which proved plaintly it was the effect of which proved plaintly it was the effect of the flowers. The success of the extract, in ussis contain a pulpy matter, in which is lodged a brown, convulsiva, exceeded my hopes; forty-two children hard, oval seed, manifesting a considerable degree of | being cured of this disorder in Valenciennes, during

employed in chronic rheumatisms, in various parts of | adstringency. The pulp, even when dry, is grateful, austringency. The pup, even when ary, is graceruly and has been discovered to contain an essential salt, similar to that of wood-sorrel. An infusion of the dried fruit is not rendered black by a solution of iron; hence it appears to be destitute of adstringency. But its acidity is extremely grateful; therefore, like many other fruits, these berries may be advantageously taken to allay febrile lieat, and to correct bilious putrescency.

[RHUS GLABRUM. The berries of this, and several other American species of sumach, have a strong, acid taste, and at times exhibit crystallized or saline partitaste, and at times exhibit crystalized or saline parti-cles on their surface. Dr. Harsefield supposes the acid they contain to be tartaric: but it is, not improbably, an acid sar generics. The acidulous inhiston of these berries is used as a refrigerant in fevers, and a gargle in sone throats. The bark and leaves of the shrub are highly accumulated and account of the shrub are highly astringent, and are used in tanning leather.

Big. Mat. Med. A.]
RHUS RADICANS. See Rhus vernix.
RHUS TIPHINUM. The systematic name of the Virginian sumach, the seeds of which are said to be useful

Poison oak, or sumach. RHUS TOMICODENDRON. Poison oak, This plant is a native of North America. This plant is a native of north America. The stems, it act, caude a milky juice, which inflames the skin. The leaves, now inserted in the pharmacopoia, are indorous, and have a mawkish, subacrid taste. Their virtues are extracted more perfectly by water than by alkohol. They prove stimulant and narcotic, when taken internally. Dr. Alderson, of 19th found them successful in several cases of paralysis. They excite a sense of heat and pricking, and triegular twitches in the affected limbs. They have been sometimes useful, also, in herpene cruptions. The dose may be from

half a gram, gradually increased, to four grains, two or three times a day.

RIUS VERNIN. Rhus radicans. The systematic name of a poisonous plant, the efficacy of which Dr The systematic Presnot has endeavoured to prove, in the disease called panalysis, and herpene affections. He, in order that others should not suffer by his experiments, began by taking an intesion of one of the time foliola of which cach leaf of this plant consists; and, as this dose produced no sensible effect, he increased the number to twelve. His urine and perspiration were increased in quantity, and he had some pains in his belly. lates seven cases, in which he thinks he can remove all doubt of the efficacy of this infusion, in heipetic affections. From these, the following are selected:

affections. From these, the following are selected:

"A countrywoman," says Dr. Fresnoi, "came to
me in the month of July, 1780, to consult me about the herpes farinosa, with which her face had been covered for more than a year. She was ordered to take an in-fusion of this plant; and, in six weeks, was entirely free from the disease.

He likewise relates five cases of paralysis, which

He likewise relates five cases of paralysis, which were curred by the use of this plant.

The leavesof this plant are to be cut when in the greatest vigour, about the month of June. "Those who cut this plant," says Dr. F., "wear leathern gloves, on account of its pelsonous quadries." The same gentleman observes, he saw on, case in which inflammation of the eyelids was produced by the valuation of the plant. Four pounds of the leaves, being distilled with thirty two pounds of water, give it a violate above, although the plant is equipely free from it. slight odour, although the plant is entirely free from it. Its taste is pungent, and utiliames the mount. The oc-coction which remains in the still is brown, and is coction which remains in the still is brown, and is The degenerally covered with a light brown pedicle. strained and evaporated, it gives a shining black exstrained and experience and swell the hands and arms of these who take them out of the still, and bring on an itching, which remains for several days. Forty-two pounds of the leaves afford twenty ounces

of extract, of a proper consistence for pills.

"A girl, in Franders," says Dr. Fresnoi, "already subject to fits laid down some flowers in her bedroom. Next day she told me that she I ad undergone a great Next day she told the that she rad undergone a great change: that she had had no fits, and slept much bet-ter. Procenticed to me," says Dr. F. what the flowers occasioned this change. Next day, the flowers being removed and the window opened, the convulsions re-

the end of the year 1786. Four grains of extract are to be dissolved in four ounces of syrup, of which one table-spoonful, given to the child every third hour, generally abates the cough, and mostly leaves them."

RHY AS. ('Pvas, a disease of the or defect of the lachrymal caruncle. ('Pvas, a disease of the eye.) A decrease the lachrymal caruncle. The proximate cause is a native defect; or it may originate from excision, erosion, or acrimony. This disorder is commonly incurable, and it induces an incurable epiphora, or a continual weeping.

RHYPIA. (From 'Pupos, sordes.) Foul, sordid.

ill-conditioned.

RHYTIDO SIS. See Rutidosis.

RIB. Costa. The ribs are the long curved bones which are placed in an oblique direction at the sides of the chest. Their number is generally twelve on each side; but, in some subjects, it has been found to be thirteen, and in others, though more rarely, only ele-ven. They are distinguished into true and false ribs. The seven upper ribs, which are articulated to the sternum, are called true tibs; and the five lower ones, which are not immediately attached to that bone, are called false ribs. At the posterior extremity of each rib, we observe a small head, divided by a middle ridge into two articulating surfaces, covered with cartilage, which are received into two cavilies, configuous to each other, and formed in the opper and lower part of each dorsal vertebra, as we have observed in our description of the spine. This articulation, which is secured by a capsular ligament, is a species of ginglymus, and allows only of motion upwards and down-The head of each rib is supported by a short neck, and immediately beyond this we find a flattened tubercle, affording an oblong and slightly convex surface, which is articulated with the transverse process of the lowest of the two dorsal vertebras, with which its head is articulated. At some little distance from this tuberosity, the nb makes a considerable curve, which is usually called its angle. From the tubercale to the angle, the ribs are of considerable thickness, and approaching to a cylindrical shape; but, from the an approaching to a cylindrical stage, but, in the all gle to their anterior extremity, they become thanner and flatter. To this auterior extremity is fixed a lone, broad, and strong cartilage, which, in each of the true broad, and strong carriages, which it each of the true ribs, reaches to the stermin, where its articulation is secured by a capsular ligament, and by other hyamen-tons fibre. The cartilages of the sixth and seventh ribs being longer than the rest, are extended upwords, in order to reach the stermin, the infector portion of which is about on a level with the fifth rib. The cartlages of these two ribs are usually united into one, so The false ribs are as to leave no space between them. supported in a different manner; their cartilages ter-minate in an acute point before they reach the Sernum, the eighth rib being attached by its cartilage to the lower edge of the cartilage of the seventh, or last of the true ribs; the ninth in the same manner to the the true ribs; the fining in the same manner to the eighth; and the teath to the minth; the cardiages of each rib heing shorter than that of the rib above it. The eleventh and twelfth, which are the two lowermost ribs, are not fixed at their anterior extremities like the other ribs, but hang loose, and are supported only by their ligamentous fibres, and by muscles and other soft parts.

The external surface of each rib is somewhat convex, and its internal surface slightly concave. On the inferior and interior surface of these bones we observe a long fossa, for the lodgment of the intercostal vessels and nerves. This channel, however, does not extend through the whole length of the rib, being observable Infought the water regard to the following the vissels have not yet reached the bone, nor at the fore-end, where they are distributed to the parts between the ribs. We seldom see any marks of it in the short ribs, as in the first, second, eleventh, and twelith.

Thus far we have given a description which is applicable to the ribs in general; but, as we find them differing from each other in shape, length, situation, and other respects, it will be right to speak of each rib

in particular.

The first rib, which is the shortest of any, is like-The press ris, which is the shortest of any is most curved. It is broader than the other rise, and, instead of being placed, as they are, obliquely, and with its edges upwards and downwards, it is situated nearly in a transverse direction, one of its edges being placed inwards, or nearly so. Of these edges, the inner one is sharp, and the outer one nacia; Order, Monadelphia

somewhat rounded. Its inner surface is smooth, and its superior surface is sometimes slightly depressed anterior y by the clavete. The head of this rib, instead of being angular, is flattened, and slightly convex, being received into a cavity, which is formed wholly in the first vertebra, and not by two vertebras, as in the case with the other ribs.

The second rib is longer than the first, but shorter than the ribs below it. Its angle is placed at a small distance rom its tuberosity, and its head is articulated with two vertebra, tike the other ribs. The other ten ribs, the last two only excepted, differ from the general description we have given, chiefly in the difference of their length, which goes on gradually increasing, from the first or uppermost, to the seventh or last of the true ribs, and as gradually diminishing from that to the twelfth. Their obliquity, in respect to the spine, likewise increases as they descend, as does the distance between the head and angle of each rib, from the first rib to the ninth. The two lowest ribs differ from all the rest in the following particulars:-Their heads, like that of the first rib, are rounded, and received into a cavity formed entirely in the body of one vertebra; they have no tubercle for their articulation with the transverse processes, to which they are only loosely fixed by ligaments, and, in this respect, the tenth rib is sometimes found to agree with them: they are much shorter than the rest of the false ribs, and the twelfth The length of the is still shorter than the eleventh. latter, however, is different in different subjects, and is not always found to be the same on both sides. riorly, as we have already observed, their cartilages are short and loose, not being attached to the cartilages of the other ribs; and this seems to be, because the most considerable motions of the trunk are not performed on the lumbar vertebre alone, but likewise on the lower vertebre of the back; so that if these two ribs had been confined anteriorly, like the rest, and likewise united to the bodies of two vertebre, and to the transverse process, this disposition would have impeded the motion of the two last vertebra of the back, and consequently would have affected the motion of the trunk in general.

The u e of the ribs is to give form to the thorax, and to cover and defend the lungs; also to assist in breathing; for they are joined to the vertebra: by regular liagus, which allow of short motions, and to the sternum by cartilages, which yield to the motion of the ribs, and return again when the muscles cease to act.

Reblied leaf. See Nerrosus.
RFBES. The name of a genus of plants in the Linnacan system. Class, Pentandria; Order, Monogayum. The currant-tree.

RIBES NIGRUM. Black current. This indigenous plant, Rabes—racemes pilosis, floribus oblongis, of Linnaus, affords larger berries than those of the red. which are said to be peculiarly useful in sore throats, and to possess a directic power in a very considerable degree. The leaves of the black currant are extremely fragrant, and have been likewise recommended for their medicinal virtue, which Bergius states to be mundificans, pellens, diuretica. The officinal preparations of the berries are the syrupus ribis nigri, and the succus rehis nigri inspissatus.

RIBES RUBRUM. Grossularia non spinosa. The Rights Relace at trivassitured non spinora. The red currant. Riches—inerme; renorms glabris pendulis, floribus planiusculis, of Linneus. The white currant tree is mesely a variety of the red, the fruit of both is perfectly analogous; therefore, what is said of the one applies to the other. The red currant is abundantly said interesting and from its grateful acid. of the one applies to the other. The red chrism is abundantly cultivated in gardens, and, from its grateful acidity, is universally acceptable, either as nature presents it, or variously prepared by art, with the addition of sugar. Considered medicinally, it is esteemed to be moderately refrigerant, antiseptic, attenuant, and aperient. It may be used with considerable advantage to allay thirst, in most febrile complaints, to lessen an inallay thirst, in most febrile complaints, to lessen an in-creased secretion of bile, and to correct a putrid and sometime state of the fluids, especially in sanguine temperaments: but, in constitutions of a contrary kind, it is apply to occasion flautiency and indigestion. RIGWORT. See Plantago lanceolata. RICE. See Crinca. RICENTS. (Quasi, 640 Kuros, a dog's nose: be-cause they stick to the noses of dogs.) I. The name of a genus of plants in the Linnaran system. Class, Mo-narya, Culter, Manadalulas.

2. The pharmacopoial name of the plant that affords

the seed from which the castor-oil is prepared.
RICINUS COMMUNIS. The systematic name of the CESTOT-OI Plant. Calaputic major; Kervos; Ricinus vulgaris; Palma christi Ricinus—foliis peltatis subpalmatis serratis, of Linneus. This plant appears to the the Kan, or Kporton, of Dioscorides, who observes, that the seeds are powerfully cathartic; it is also mentioned by Actius, Paulus Ægmeta, and Pliny. ricinus was first cultivated in England, in the time of Turner, and is now annually recured in many gardens in the neighbourhood of London, and in that of Dr. Saunders, at Highbourhood, and grew to astate of great perfection. An oil extracted from the seeds of this plant, and known by the name of oleum ricuit, palma christi, or castor-oil is the drug to which the palma christi, of Casorson, is the frequent use, as a quick but gentle purgative. London College directs this oil to be expressed from the seeds in the same way as that of the oil of almonds and without the assistance of heat, by which the oil would seem to be obtained in the purest state. How ever, we have some reason to believe that this method is seldom practised, and that the oil usually employed here is imported from the West Indies, where it is commonly prepared in the following manner:-" The seeds being freed from the husks, or pods, which are gathered upon their turning brown, and when beginning to burst open, are first bruised in a mortar, afterward field up in a linen bag, and their unever all large pot, with a sufficient quantity of water (about eight gallons, to one gallon of the seeds), and boiled till the oil is risen to the surface, when it is carefully and the for use. Thus propared, the oil is entirely free from acrimony, and will stay upon the stomach when it rejects all other medicines." Mr. Long remarks, that the oil intended for medicinal use, is more frequently cold drawn, or ex-tracted from the bruised seeds by means of a hand-But this is thought more acrimonious than that prepared by coction. Dr. Brown is also of this opinion, and prefers the oil prepared by coction to that by expression; he attributes its greater mildness to the action of the fire, observing that the expressed oil, as well as the mixed juices of the seeds, are far more ac-

tive and violent in their operation.

Dr. Cullen observes, that "this oil, when the stomach can be reconciled to it, is one of the most agree able purgatives we can employ. It has this particular able purgatives we can employ. It has this particular advantage, that it operates somer after its exhibition than any other purgative Iknow of, as it commonly operates in two or three hours. It seldom gives any griping, and its operation is generally moderate, producing one, two, or three stools only. It is particularly suited to cures of costiveness, and even to cases of

spasmodic colic

In the West Indies, it is found to be one of the most certain remedies in the dry belly ache, or collect picto-num. It is seldom found heating or irritating to the rectum; and, therefore, is sufficiently well suited to hismorrhoidal persons.

The only inconvenience attending the use of this medicine is, that as an oil it is nauseous to some persons; and that, when the dose is large, it occasions sickness at the stomach for some time after it is taken. To obviate these inconveniences, several means have been tried; and it is found that the most effectual means been tried; and it is found that the most creetilal means is the addition of a little ardent spirit. In the West Indies, they employ run; but that I might not with draw any part of the progrative. Lemployed the Finescence comp. This, added in the proportion of one to three parts of the oil, and very intimately mixed, by being shaken together in a plial, both makes the oil less nauseous to the taste, and makes it sit more easy. on the stomach. The common dose of this oil is a table spoonful, or half an ounce; but many persons re-

RICINUS MAJOR. See Jatropha curcas. RICINUS VELGARIS. See Ricinus.

RICKETS. See Rachitis.
RICTUS. This term is applied by botanists to the grinning mouth or opening between the two lips of a ringent or personate flower.

RIGOR. A sudden coldness, attended by a shivering, more or less perfect.

RIMA. A fissure, or opening; as the rima laryngis,

rima vulva.

RIMA GLOTTIDIS. The opening of the larynz, through which the air passes in and out of the lungs. RIMULA. (Diminutive of size of the lungs.)

small fissure RINÆ'US. (From piv, the nose.) See Compressor

RING-WORM. A species of herpes. RINGENS. Ringent: a term applied to flowers or their corolla, which are irregular and gaping, like the mouth of an animal; as those of the nettle, &c.

A ringent flower is also called a lipped or labiate by some botanists.

RI SAGON. See Cassumuniar.
RISIGALLUM. The auripigmentum was so called-RISIGNLIUM. The RISIGNLIUM. The See Arsenious acid.
RI'SUS. Laughter; laughing.
A kind of laughter in which the cannot be supplied to the season.

RIVERIUS, LAZARUS, was born at Montpelier, in 1589. Being naturally slow in his attainments, be failed in his first examinations for a degree; but this only stimulated him to redoubled exertions, so that in the following spring he accomplished his object at the age of 22. His attachment to study became then very great, and eleven years after that period he was ap-pointed to the professorship of medicine in the univerpointed to the processor and or interaction at the difference sity; which office he filled with great honour till his death in 1655. Riverius published some valuable works, especially one, entitled "Praxis Medica;" which appeared at first in a concise form, as a sort of text book; but finding it very favourably received by the public, he enlarged and improved it considerably: it added greatly to his reputation, having passed through numerous editions, as well in the original, as translated into French and English.

transated into Frenca and Lagisti.
RIVINUS, Arousstus Quirinus, was son of a learned physician and critic, Andrew Bachmann, whose name was Latinized into Rivinus, and born at Leipsic, in 1652. He graduated at the age of 24, and fifteen years after obtained the professorships of physician and the professorships of physician of the professorships of physician and physician and professorships of physician and physician and physician professorships of physician and physician ology and botany in his native university; he was also associated with many learned bodies; and he filled these appointments with honour to himself till his death, in 1723. Rivious distinguished himself chiefly as a systematic botanist; but his arrangement was very defective, being founded on the number of the petals, and their being regular, or irregular. Though by no neans eminent as a practical anatomist, he is said to have discovered a new salivary duct. As a medical writer, he has the merit of faithful observation and description in his treatise. "The Peste Cipsienst," published in 1680. He wrote also on dyspepsia, on intermittents, and various other subjects. His "Censura Medicamentorum officinalium," ranks very high, on account of the freedom with which he attacked opinions, however generally received, which he believed erroneous: and to the prevalence of this spirit we owe the great simplification, and other improvements, which the Materia Medica exhibits at present.

ROASTING. A chemical process, generally performed in crucibles, by which mineral substances are divided, some of their principles being volatilized, and and their being regular, or irregular. Though by no

divided, some of their principles being volatilized, and others changed, so as to prepare them for other opera-

ROR (Rob, dense, Arabian.) An old term for an

inspissated juice.
ROBORANT. (Roborans; from roboro, to strength-

ROBORANI : (Roborous ; 11011 roboro, to succingu-en.) That which is strengthening. See Tonic. ROCCE LLA. See Linken roccella. Rockelle-solt. See Soda tartarisata. ROCKAMBOLE. The Allium scorodoprasum, of The root is used for pickles and high-seasoned dishes

ROCK-BUTTER. A greasy mineral which oozes out of rocks that contain alum, at the Hurlet alum-work, near Paisley.

See . Isbestos. Rack cort

ROCK-CRYSTAL. A white and brown-coloured crystallized silicious mineral, found of great size and beauty in some parts of Scotland, and Dauphiny affords most magnificent groupes.

most manment groupes.

Rock-SALT. Of this there are two kinds, the foliated and the fibrous. The principal deposite of this salt in Great Britain is in Cheshire. In 1000 parts are contained, according to Henry, 983 of muriate of soda, 62 sulphate of lime, a little muriate of lime and mu- their odorous matter to watery liquors, both by infusion riate of magnesia, and 10 parts insoluble matter. See Crithmum maritimum.

Rock-samphire. See Crithmum mar Rock, wood. The lightform abestos. ROCKET. See Brassica eruca. Rocket, Roman. See Brassica ernea.

Rocket, Homan. See prassing renear Rocket, wild. See Brassica cranastrum. [ROMAYNE, Niemoras, M. D. was born in the city of New-York in September, 1756, and obtained hi-elementary education at Hackensack in New Jersey, under the instruction of Dr. Peter Wilson, the late prounder the instruction of Dr. Peter wilson, the late pro fessor of languages in Columbia College. About the commencement of the revolutionary war he went abroad, and completed his medical studies at Edm burgh. He also visited the continent and speat two years in Paris. Upon his return to New York he com menced his professional career. He was advantage ously known as an able private between on many branches of medical science, and it is with pleasure I bear witness to his efficient instrumentality, in the foundation of the College of Physicians and Surgeons. He was its first president, and gave instructions in that institution on Anatomy and the Institutes of Medicine. His address as president, delivered at the first opening of the college in November, 1897, is an honourable specimen of his diversided attanments and talent. He died in New-York in 1847.

"Dr. Romayne," says Dr. W. Leod, "was a man of strong mind, well cultivated and much improved by

strong mind, well cultivated and much improved by reading, by the secrety of learned men, and by travelling. I knew him in he ath and in the midst of disease; in affluence and in adversity. He had much self-com mand, though naturally of powerful passions, and very tender sensibilities. Bereaved of all his children in their intancy, he could set endure the recollection of their endearment. On the last evening of his life he gave testimony to a dear friend, of his respect for the Scriptures. He departed too sandarily for me to see him on his death hed, "—Thacke Men Bing. A.]

Rous Las. See Drasara rotands folia.

RORE LLA. See Drosera rotundefolia. ROS. Dew.

ROS CALABRINUS. The official manna is sometimes

Ros Sol.18. See Drasera raturdajolaa. ROSA. 4. The name of a genus of plants in the Linnaan system. Class, Icosanarra; Order, Poly

The rose.

2. A name sometimes given to the crysipelits be-causer begins with a colors like that of a rose. Ross Alma. The white less. The flowers of his species possess similar but inferior virtues to those of the damask.

the damask.

Rosa anna. Rasa spleesters: Cenerchodon; Cynosbatos. The dog use, or wild brief, or hip tice.

Rosa—germinibus ovaits pedementesque glabers, coule petrolicyme aculeutes, of Lamaeus. The front of this tree, called heps, or hips, has a sourish taste, and obtains a place in the London pharmacoperia, in the form of conserve. It is seldem employed but to give form to more active remedies, in puls, boluses, line tuses, &cc.

ROSA CENTIFOLIA. The pharmacopoial and systematic name of the damask rose. Rosa damascoda; Rosa pallida. The damask rose. The phrimacopæias direct a syrup to be prepared from the p tals of this rose, Roca—genumbes oratio pedacent from the pedacent his rose, Roca—genumbes oratio pedacentosque hos-pulis, caule hispido acadento petroies surrantous, et Lin-naeus; which is found to be a pleasant and useful laya-tive for children, or to obvicate costiveness in adults. Most of the roses, though much cultivated in our gardens, are far from being distinctly characterized. Those denominated varieties are extremely numerous. and often permanently uniform; and the specific differences, as hitherto pointed out, are in many respects so inadequate to the purpose of satisfactor, discremination, that it becomes a difficult matter to distinguish which are species and which are varieties only. The damask rose seems to be another species widely all

ferent from the centifetia, as appears from the descrip-tion given of it by Du Roi and M Ber.

The petals are directed for medical use: they are of a pale red colour, and of a very legrant door, which, to most people, is extended agreening; and inner law this and meat of the substance agreening.

and distillation. Six pounds of fresh roses impregnate by distribution, agailon, or more, of water, strongly with by distillation, agained, or more, of water, strongly with their fine flavour. On distilling large quantities, there separates from the watery fluid a small portion of a tragamit butyraccous oil, which liquenes by heat, and tragami butyraccous on which indexes by near, and appears yellow, but concretes in the cold into a white mass. A hundred pounds of the flowers, according to the experiments of Tachenus and Hodman, afterded scarcely half an onnec of oil." The smell of the oil exactly resembles that of roses, and is therefore much used as a perfume. It possesses very little pun-gency, and has been highly recommended for its cordial and analopus qualities. These flowers also contain a and analeptic qualities. bitterish substance, which is extracted by water along with the odorous principle, and remains entire in the decoction after the latter has been separated by distillation, or evaporation.

This fixed sapid matter of the petals manifests a purgative quality, and it is on this account that the flowers are received in the Materia Medica.

ROSA DAMASCENA. See Rosa centifolia.
Rosa Gallica. The pharmacopulal and systematic name of the ted rose. Rosa rubra. The flowers of mame of the red rose. Rosa rubra. The flowers of this species, Rosa—germanibus overtex pedeunculusque hispitus, caule petrolisque hispido aculeatis, of Lin-ments, are valued for their adstringent qualities, which are most considerable before the petals expand; and therefore in this state they are chosen for medicinal use, and ordered by the pharmacopesias in different prepa-iations, as those of a conserve, or confection, a honey, an intusion, and a syrup. The infusion of roses is a material explant subsetting and partial in house. grateful cooling subadstringent, and useful in harmop-tysis, and other harmorrhagic complaints: its efficacy, however, depends chiefly on the sulphuric acid added.

however, depends chiefly on the sulphuric acid added.

Resa Paladda. See Rusa centifolia.

Resa Paladda. See Rusa galirea.

Rusa Selawa. See Rusa galirea.

Rusa Selawa. See Rusa centina.

Rusa Selawa. See Rusa centina.

Rusa Selawa. See Rusa centina.

2. The term galiar rusaccen is applied to intile rosy-coloured spots agont the lace and tose.

Rusa Celawa. Rusa centina rusaccen is applied to intile rosy-coloured spots agont the lace and tose.

of persons, labouring under goat and inflammatory fe-vers, a sediment of a rose colour, occasionally in reddisherystals This was first discovered to be a peculiar disherystats. This was hist discovered to be a permitar and by M. Proust, and afterward extonmed by M. Vauquelin. This acid is solid, of a lively choabar bue, without smell, with a faint taste, but reddening litmus very sensibly. On burning coal it is decomposed into a pungent vapour, which has not the odour of burning animal matter. It is very soluble in water, and it even softens in the air. It is soluble in alkohol. It forms soluble salts with potassa, soda, ammonia, barytes, stroniites, and lime. It gives a slight rose-coloured precipitate with acetate of lead. It also combines with lithic acid, forming so intimate a union, that the lithic acid in precipitating from urine, carries the other, though a deliquescent substance, down along with it. It is obtained pure by acting on the sediment of urme with alkohol.

ROSALLA. A name in some authors for the mea-es, or a disease very like the measles.

ROSE. See Rosa.

Rose, damask. See Rosa centifolia. Rose, dog. See Rosa canina. Rosea Radix See Rhodrola.

ROSE RAME - CAR PARAMENTA. ROSE ROOT. See Rhodrola. Rose, white. See Rose alba. Rose Lay wellow heeb. See Epilobium angustifolium. ROSEMARY. See Rosmarinus.
ROSEOLA. (From rosa, a rose: so called from the

colour of the rash.; A rose-coloured efflorescence, condation the figured, without wheals, or papulae, and not contagious. It is mostly symptomatic, occurring in connexion with different febrile complaints, and requiring no deviation from the treatment respectively

his principal sarieties are comprised under the seven

following hads:

The two via a stiru appears first on the face and eck, and in the cenese of a may or two is distinuted over the whole back, producing a considerable degree of inching and tinging. It is distributed into separate small patches, of various figure, but larger and more to most people, is exceeded agreement, and many this and most of the other roses are much used as over the whole both, producing a considerable degree nosegays. We may remark, however, that in some instances, they have, under certain circumstances, and patches, of various figure, but larger and more produced alarming symptoms. The petals "impart irregular forms than in the messles. It is at first red,

but soon assumes its deep roseate hue. The fauces are tinged with the same colour, and a slight roughness of the tonsils is felt in swallowing.

The rash continues vivid through the second day after which it declines in brightness, slight specks only remaining of a dark hue, on the fourth day; which, with the constitutional affection, wholly disappear on

The efflorescence sometimes is partial, extending only over portions of the face, neck, and upper part of only over particular, the breast and shoulders, in pacelies, slightly clewated, and tiching considerably, but in this form the disease continues a week or longer, the rash appearing and disappearing several times; sometimes from taking warm liquors, and sometimes without any apparent cause. The retrocession is usually accompanied with disorder of the stomach, headache, and faintness; which are immediately reheved on its appearance. It commonly occurs in females of irritable constitution in summer. Light diets and acidulated drinks, with occasional laxatives, pathate the symptoms.

2. The Roscola natumnalis occurs in children, in the

autumn, in distinct circular or oval patches, which gradually increase to the size of a shilling, and are of

grammly increase to the size of a shifting, and are of a dark damsk rose line. It appears chiefly on the arms, sometimes desquamating, and its decline seems to be expedited by the internal use of sulphuric acid.

3. The Rossola manufata occurs on almost every part of the body, in ray coloured rings, with central areas of the usual colour of the skin. When accom-panied with fever its duration is short; at other times, without any constitutional disorder, it continues for a considerable and uncertain period. The rings are, at first, from a line to two lines in diameter, butgradually first, from a time to two most in diameter, or ground dilating leave a larger central space, sometimes of the diameter of half an inch. The efforescence is less vivid and in the chrome form asually fades in the morning, but increases in the evening or night, and produces a heat and itching in the skin. When it be comes very faint in colour for several days, the sto-mach is disordered, and languor, giddiness, and pains of the limbs ensue, which are relieved by the use of

Sea bathing and the mineral acids afford much relief in the chrome forms of this rash.

4. Roscola infantilis is a closer rash occurring in infants during the irritation of dentition, of disordered bowels, and in fevers. It is very irregular in its appearances, sometimes continuing only for a night, sometimes appearance and disappearance for several very cossive days with violent disorder, and sometimes arising in single patches in different parts of are body, successively. It is alleviated by the remedies adapted to relieve bowel complaints, painful doutrion and other febrile affections with which it is connected.

5. Rescala various a occurs previously to the curp tion both of the natural and inocedar desauth pox, but seldom before the former. It appears in the reocculated disease, on the second day of the cruptive fever, which is generally the north or tenth after moculation. first seen on the arms, breast, and face; and on the following day it extends over the frunk, and extremities.

Sometimes at is distributed in oblong irregular

Sometimes it is distributed in topolog inservations, sometimes diffused with numerous intensities, and sometimes it forms an almost continuous reduces and sometimes it topins an aggest concumous receives over the whole body, being in some pairs slightly ele-vated. It continues about three days, on the second or last of which, the vacidous pustules may be discin-guished, in the general reduess, by their rounded elevation, hardness, and whiteness of their tops

6. Rose da e recina appears generally in a congeries of dots and small perches, but sometimes diffuse like the former: takes place on the minth or tenth day after vaccination, at the place of inoculation, and at the same time with the areola that is formed round the vesicle, from whence it spreads irregularly over the whole surface of the body

It is usually attended with a very quick pulse, white

tongue, and great restlessuress.

Ros al emdercis of esaccompanies an emotion of miliary vesicles after fever. It is sometimes connected with attacks of the gout and of the febrile rheamatism. and depression of spirits, total loss of appetite, and torpid bowels, and terminates on the secenth day by des-

ROSEWOOD. See Rhodium lignum.

ROSEWORT. See Rhodiola.

ROSIN. See Resina.
ROSIN. See Resina.
ROSINARI'NUS. (Quasi rosa, guppva, because it suells like myrth.) I. The name of a genus of plants in the Linnaran system. Class, Drandra; Order, . Monog nyia.

2. The pharmacopæial name of the common rose-

ROSMARINUS HORTENSIS. See Rosmarinus offici-

ROSMARINUS OFFICINALIS. The systematic name Rosarkings of file layers, the systematic is of the common rosemary. Rosmornus nortenses; Libanotts coronara; Denetrolibrius; Rosmornus, of Linnæus. The leaves and tops of this plant have a Linuages. The beaves and tops of this plant have a fragrant aromatic smell, and a bitterish pungent taste. Rosemary is reckoned one of the most powerful of those plants which stimulate and corroborate the nervous system; it has therefore be necroomended in various affections supposed to proceed from debility, or defective exertement of the brain and nerves, as in certain headaches, deafness, giddiness, and in some hysterical and dyspeptic symptoms. The officinal preparations of rosemary are, an essential oil from their leaves, or from the herb in flower, a conserve of the isaves, or from the her in nower, a conserve of the flowers, and a spirit formerly called Hungary water, from the flowery tops. The tops are also used in the compound spirit of Lavender, and soap humment. ROSMARINES SYLVESTRIS. See Ladium pallistre. ROSTELLUM. A little beak. Applied to that part of the seed which is pointed, penetrates the earth,

See Corculun ROSTRATUS. Rostrate. Applied to the pod of

The Sangus attor.

ROSTRUM. (From rodo, to gnaw; because birds
use it to rear their food with.)

2. The piece of flesh which hangs between the di
vision of the hare-lip is called rostrum leporinum.

3. Applied in botany to some elongation of a seedvessel, originating from the permanent style; Geraneum; though it is also used for naked seeds; as

ROPACLE. (From rota, a wheel.) The name of an order of plants in Linnaus's Fragments of a Natural Method, consisting of those which have one flat wheel-

shaped petal.

ROTACISMUS. The harsh or asperated vibration of the letter r or  $g_{2}$ , which is very common in the northest parts of England. ROTANG. See Calaimas rotang.

notinesd parts of England.

ROTANG: See Columns rotaing.

ROTANG: TOR: (From cotor to turn.) A muscle the office of which is to wheel about the thigh.

ROTATUS: Rotate, or wheel-like; salver-shaped.

Applied to the corolls, nectary, See; as the nectary of the Cossessopules, the corolls of the Borrage officencies.

ROTULA: Diminutive of rota; a wheel; so called itom is shape: See Per Ru.

from its shape See P. + Hr.
ROTUNDUS. See Round.

ROTUNDUS. See Rossal.
ROTUNDUS. See Cartherons timetorius.
ROUND. Rotunsios. Many paris of animals and vogetelules receive this trivial name from their shape; as round ligaments, round foramen, &c.; and leaves, stems, seeds, &c. as the seed of the Pissua Brassica, &c. Roundblowed sorrol. See Romer sentatus.
ROUND INCOMPRES. Ligamenta rotunda. A bundle of vessels and fibres contained in a dispicature of

the peritoneum, that proceed from the sides of the meros, through the abdominal rings, and disappear in

RUBE'DO. (From ruber, red.) A diffused, but not sported, redness in any part of the skin; such as that which arises from blushing.

RUBEFACIENT. (Rubefaciens; from rubefacio, to make red.) That substance which, when applied a certain time to the skin, induces a reduess without

RUBELITE. Red tourmalin.

RUBE'OLA. (From ruber, red; or from rubeo, to become red) Mortali. The measles. A genus of disease in the Class Pyrexia, and Order Exanthemata, of Culler, known by synocha, hoarseness, dry cough, sno zam, drowsines; about the fourth day, cruption or medi red points, discernible by the touch, which, actor the state, ends in medy despanatation. The blood, after yearse from exhibits an inflammatory crust. In addition to the symptoms abendy related, it is remarkable, that the cross and cyclids always show the presence of this disease, being somewhat inflamed

and suffused with tears. The synocha continues dur-ing the whole progress of the disease. In systems of nosology, several varieties of measles are mentioned, but they may be all comprehended under two heads; the one attended with more or less of the symptoms of general inflammation; the other accompanied by a

putrid diathesis.

The measles may prevail at all seasons of the year as an epidemic, but the middle of winter is the time they are usually most prevalent; and they attack persons of all agos, but children are most lightle to them. They prove most unfavourable to such as are of a picture of a regarding holds. They prove most understands to such as are or a plethoric or scrotidious labit. Like the small-pox, they never affect persons but once in their life; their con-tagion appears to be of aspecific nature. The couption is usually preceded by a general uneasmess, childness. and shivering, pain in the head, in grown persons: but in children a heaviness and soreness in the throat; sickness and vomiting, with other affections, such as happen in most fevers; but the cluef characteristic happen in most fevers; but the chief characteristic symptoms are, a heaviness about the eyes, with swelling, inflammation, and a defluxion of sharp tears, and great acuteness of sensition, so that they cannot bear the light without pain, together with a discharge of such serous humour from the nostrils, which produce sneezing. The heat and other febrile symptoms, increase very rapidly; to which succeeds a frequent and divergence of the control of the state of the succeeds a frequent and divergence of the succeeds a frequent standard way ough a stating great expression, and other succeeds a frequent standard way ough a stating great expression, and other succeeds a frequent standard way ough a stating great expression, and other succeeds a frequent standard way ough a stating great expression, and other succeeds a frequent standard way ough a stating great expression and other succeeds a frequent standard way of the standard way of the succeeds a frequent standard way of the succeeds way of t and dry cough, a stuffing, great oppression, and often-times retching to vomit, with violent pains in the loins, and sometimes a looseness; at other times there is great sweating, the tongue foul and white, the thirst very great, and, in general, the fever runs much higher than in the milder sort of the regular small-pox. The eruptions appear about the fourth or fifth day, and sometimes about the end of the third. On the third or fourth day from their first appearance, the redness diminishes, the spots, or very small papular, dry up, the cuticle peels off, and is replaced by a new one. The symptoms do not go off on the cruption, as in the smallpox, except the veniting; the cough and headache continue, with the weakness and defluxion on the eyes, and a considerable degree of fever. On the ninth or eleventh day, no trace of redness is to be found, but the skin assumes its wonted appearance; yet, without there have been some considerable eva cuations either by the skin, or by vomiting, the patient will hardly recover strength, but the cough will continue, the fever return with new violence, and bring on great distress and danger.

In the more alarming cases, spasms of the limbs, subsultus, tendinum, delirium, or what more frequently happens, coma, supervene. This last symptom so irrequently attends the eruptive fever of measles, that by some practitioners it is regarded as one of its diagnostics.

In measles, as in other febrile diseases, the symptoms generally suffer some remission towards the morning, returning however towards the evening with

increased severity.

The meastes, even when violent, are not usually attended with a putrid tendency; but it sometimes happens, that such a disposition prevails both in the course of the disease and at its termination. cases, petechiæ are to be observed interspersed among the eruptions, and these last become livid, or assume almost a black colour. Harmorrhages break out from different parts of the body, the pulse becomes frequent, feeble, and perhaps irregular, universal debility ensues, and the patient is destroyed.

In those cases where there is much fever, with great difficulty of breathing, and other symptoms of pneu-monic inflammation, or where there is great debility, with a tendency to putrescency, there will always be considerable danger; but the consequences attendant on the measies are in general more to be decaired than the immediate disease; for although a person may get through it, and appear for a time to be receivered, still become hectic symptoms and pulmonary consumption shrill

afterward arise, and destroy him, or an ophthalmia shall ensue.

Measles, as well as small-pox, not unfrequently call into action a disposition to scrofula, where such happens to exist in the habit. Another bad consequence of the measles is, that the bowels are often left by them in a very weak state; a chronic diarrhea remaining, which has sometimes proved fatal. Dropsy has also been known as a consequence of measles.

The morbid appearances to be observed on dissec-The morbid appearances to be observed in ussections of those who die of measles are pretty much confined to the lungs and intestines; the former of which always show strong marks of inflammation, and sometimes a tendency to sphacehis. Where the patient dies under the cruption, the trachea and larger branches of the bronchia, as in the small pox, are often covered with it, which may account for the increase of

RUB

the cough after the appearance of the cruption.

In the treatment of this disorder, as it usually ap-In the treatment of this disorder, as it usually appears, the object is to moderate the accompanying synocia fever, and attend to the state of certain organs, particularly the lungs and the bowels. When there are no urgent local symptoms, it will be commonly sufficient to pursue the general antiphologistic plan, cavoiding, however, too free or sudden exposure to cold.) keeping the howels open, and encouraging diaphoresis by mild antimonials, &c. Sometimes, however, in plethoric habits, especially where the lungs are weak, if will be proper to begin by a moderate abstraction of blood. Where the eruption has been imprudently checked, much distress usually follows, and it will be advisable to endeavour to bring it out again by the warm bath, with other means of increasing the action of the cutaneous vessels. Should an inflammatory determination of the lungs occur, more active evacuations must be practised, as explained under the head of Pneumonia. The cough may be palfiated by opium, joined with expectorants, demuleants, &c.: and an occasional emeric will be proper, when there is much wheezing. Where diarrhosa takes place, it is better not to attempt to suppress it at once; but if troublesome, moderate it by small doses of opium, assisted portaps by astringents. At the decline of the disorder, much attention is often required to prevent phthisis pulmonalis supervening. Should the disorder ever put on a putrid character, the general plan pointed

ever put on a put in character, the general pain pointed out under Typhus must be pursued. RUBIA. (From ruber, red: so called from its red rouses). I. The name of a genus of plants in the Lin-neon system. Class, Tetrandria; Order, Monogynia. 2. The pharmacopoial name of the madder plant,

Ruhra tenctorum.

RUBIA TINCTORUM. The systematic name of the Refix TreeForeM. The systemate manner madder plant. Erythrodanum; Rubia major; Radix rubra. Dyers' madder. Rubia—foliis annuis, caule arabato, of Linneus. The roots of this plant have a rante and the control of the costs of this plant have a bitterish, somewhat austere taste, and a slight smell, not of the agreeable kind. It was formerly considered as a deobstruent, detergent, and diuretic, but it is now

very seldom used.

RUBI'GO. (Rubigo, inis. f.; d colore rubro, from street colour.)

Rust.

RUBIGO CUPRI. See Verdigris. RUBIGO FERRI. See Ferri subcarbonas.

Runi'nus. (From ruber, red: so named from its colour.) A carbuncle. See Inthrax.

Runinus verus. See Anthrax.

RUBULI. (From rubus, a blackberry or raspberry.)
The specific name in Good's Nosology of the yaws.
RUBUS. (From ruber, red; so called from its red
fuit.) The name of a genus of plants in the Linnsan
system. Class, leasandra; Order, Polygynia.
Rebus arctrees. The systematic name of the

shrubby strawberry. Rubus—folicis alternatis, caule inerma uniflora. The berries, Bacca norlandica, are recommended by Linnaus as possessing antiseptic, re-

frigerant, and antiscorbutic qualities.

Rears easies. The systematic name of the dewberry plant, the finit of which resembles the blackberry

in appearance and qualities.

REBUSCHAMAMORUS. The systematic name of the cloudberry tree. Chamamorus; Chamarubus folirs ribis Anglica: Italius polustris humilis; Vaccinium Lancastrense: Rubes alpenus hunders Anglieus. Cloudberries and knotherries. The ripe fruit of this plant, Rubus -folios scueplicibus lebatis, caule interno unifloro, of Linnaus, is prepared into a jam; and is recommended talliancis, is period from a fair, and is recommended to allow thirst, &c. in fevers, phthis ical diseases, hamplyses, &c. As an antiscorbatic, it is said to excel the source grass and other vegetables of that tribe in

common use.

Rems interfecests. The systematic name of the common bramble, which affords blackberries. The berries are eaten in abundance by children, and are wholesome and gently aperient. Too large quantities, which is the common and gently aperient. however, when the stomach is weak, produce vomit

ing and great distention of the belly, from flatus. See | ter dock. Fruits, summer.

The systematic name of the rasp RUBUS IDÆUS. RUBUS IDEUS. The systematic nature of the rasper berry. Battnon; Moron. Rubus—folics quanato-pin-matis ternatisque, caule aculeato, petiolis canaliculatis, of Linnaus. The fruit of this plant has a pleasant Bweet taste, accompanied with a peculiar grateful fla-vour, on account of which it is chiefly valued. Its virtues consist in allaying heat and thirst, and promoted virtues consist in allaying heat and thirst, and promoting the natural excretions. A grateful syrup prepared from the juice is directed for officinal use.

[RUSDS TRIVIALIS. See Blackberry. A.]
RUSDS VILLOSUS. See Blackberry. A.]
RUBY. See Sapphire.
RUCTUS. An erructation.
RUE. See Ruta graveoulens.
Rue, goats. See Galega.
Ruti PULLE. Rutus's pills. A compound very similar to the aloetic pills with myrrh. See Pitula aloes cum myrrha.

aloes cum myrrha.

RUFUS, the Ephesian, a physician and anatomist of considerable eminence in the reign of Trajan, esteemed by Galen one of the most able of his predecessors. He traced the origin of the nerves in the Cessors. He traced the origin of the nerves in the brain by dissecting brutes, and considered some of them as contributing to motion, others to sensation. Heeven observed the capsule of the crystalline lens in the eye. He considered the heart as the seat of life, and of the animal heat, and as the origin of the pulse, which he ascribed to the spirit of its left ventricle and of the ascribed to the spirit of its left ventricle and of the arteries. There is a very respectable treatise by him on the Diseases of the Urmary Organs, and the Method of curing them. He also wrote a good work on Purgative Medicines; and a little treatise on the Names given by the Greeks to the different Parts of the Body. Galen affirms also, that Rutus was the author of an Essay on the Materia Medica, in verse; and Suidas mentions others on the Atra bilis, &cc., but these are all lost.

RUGOSUS. Rugged. A term applied to a leat, when the veins are tighter than the surface between them, causing the latter to swell into little incqualities, as the various species of sage. The seeds of

qualities, as the various species of sage. The seeds of the Lithospermum arvense are rugose.

RUM. A spirituous liquor, well known, the produce of the sugar-cane.

RUMEX. (Rumex, icis. m.; a sort of pike, spear, or halberd, which the shape of the leaves in various species much resembles.) The name of a genus of plants in the Linnean system. Class, Hezandria; Order,

Trigynia. The dock.

RUMEX ACETOSA. The systematic name of the common sorrel. Acctosa; Acctosa vulgaris; Acctosa pratensis; Acctosa arvensis. Sorrel; sour dock. Rumez-folis oblongis sagittatis, floribus discris, of Linnaus. The leaves of this plant are sour, but not the root, which is bitter. It grows in the meadows and common fields.

common fields.

RUMEX ACUTUS. The systematic name of the sharppointed wild-dock. Ozylapathum; Lapathum. Rumez-floribus hermaphrodicis; valends dendetis grameries, folus cordato abhongs a cammates, of Lin
nams. The decoction of the root of this plant is used
in Germany to cure the iteh; and it appears to have
been used in the time of Dioscorides, in the cure of
leprous and impetiginous affections, both alone and
bested with empear.

boiled with vinegar.

RUHEX ALPINUS. The systematic name of the plant which affords the monk's rhubarb. See Rumex pu-

tientia.

RUMEN AQUATICUS. See Rumer hydrotapathum.

["RUMEN ARTHANNICA. The common American water-dock, which grows in wet, boggy soils, and upon the margin of ditches, is a moderately stimulating and astringent plant. It is esteemed by many country practitioners as a local application to indolent and try practitioners as a local application to indolent and ill-conditioned inters. A strong decrection of the root is usually employed as a wash in these cases. Some times an outment, formed by simmering the root in hog's lard, is beneficially applied in herpes. The use of this plant, according to Colden, was learned from the Indians." — Big. Mat. Med. A.]

RUMEN CRISPUS. The systematic name of the crispleaved dock.

leaved dock.

RUMEN HYDROLAPATHUM. The systematic name of the water-dock. Hydrolapathum; Rumex aquaticus; Herba Britannica; Lopathum aquaticum. The wa-

ter dock. Rumez—floribus hermaphroditis, valvulis integris graniferis, foliis lanceolatis, of Linnaus. The leaves of this plant manifest considerable acidity, The leaves of this plant manifest considerable acidity, and are said to possess a laxative quality. The root is strongly adstringent, and has been much employed, both externally and internally, for the cure of some diseases of the skin, as servey, lepra, lichen, &c. The root powdered is said to be an excellent dentifrice.

[\*Revex ourtestrontes.\* This species of dock is a foreign plant, naturalized as a weed in the cultivated grounds in this country. The root is bitterish and astringent. A decoction, taken internally, is laxative.

Externally, it is applied for the cure of please and cuta-

Externally it is applied for the cure of ulcers and cutaneous diseases, and sometimes with very good effect.

neous diseases, and sometimes with very good effect. The Rumex crispus, or curled dock, another important weed, resembles this in its qualities, and, in the form of ointment or decoction, is found to cure mild cases of psoma and other cruptions."—Big. Mat. Mcd. A.]. RUMEX PATIENTIA. The systematic name of the garden patience. Rhabarbarum monacharum; Hippolapathum; Patientia. Monk's rhubarb. The root of this plant, and that of the Rumez alpinus, according to Professor Murray, is supposed to possess the virtues of rhubarb, but in an inferior degree. It is obviously more adstringent than rhubarb, but comes were viously more adstringent than rhubarb, but comes very

viously more adstringent than rindard, out comes very far short of its purgative virtue.

Rumex sanguiness. The systematic name of the bloody dock, the root of which has an austere and adstringent taste, and is sometimes given by the vulgar in the curre of dysentery.

Rumex scutarus. The systematic name of the

French sorrel, sometimes called acetosa rotundifolia, French sorrel, sometimes canon acceptance from the shops. Accessor symman; Accessor rotundifolia hortensis. Roman, or garden sorrel. Rumaz-foliis cardato-hastates, ramis divergentions, floribus hermaphrodites, of Linneaus. It is common in our gardens, and in many places is known by the culinary name of Green sauce. Its virtues are similar to those of common sorrel. See Rumax accetosa.

RUNCINATUS. Runcinate: applied to leaves the state of the second services of the second services.

of common sorter. See Tamer acclass.

RUNCINATUS. Runcinate: applied to leaves which are shaped like the tooth of a fion: that is, cut into several transverse, acute segments, pointing backwards; as in Leontodon turazacum, called from the shape of its leaf, dens de iton, and hence Dandelton.

RUPELENSISS AL. (From Rupella, Rachella, where it was first made.) Rochelle salt. See Soda tartari-

ada.

RUPTURA. See Hernia.

RUPTURE See Hernia.

RUPTURE WORT. See Herniaria.

RUSCUS. (4 russo colore, from the carnation colour of its berries.) 1. The name of a genus of plants in the Linnwan system. Class, Diacia; Order, Syn-

2. The pharmacopæial name of the butcher's broom. Ruseus aculeatus

Rusens aculeatus.

Rusens aculeatus. The systematic name of butcher's broom, or knee holly. Brusens; Ozymyrrhane; Ozymyrrhane; Ozymyrsen; Myrtacantha; Myracantha; Soparagia, Wild myrtle. A small evergreen shrub, the Incose Johis supra floriferis mains of Linneus. It grows in wonds and thickets in this country. The root, which is somewhat thick, knotty, and furnished with long fibres, externally brown, internally white, and of a bitterish taste, has been recommended as an aperient and diurctic in dropsies, urinary obstructions, and neightific cases. It is seldon used in this country. and nephritic cases. It is seldom used in this country See Ruscus.

RUSGUS HYPOGLOSSUM. The systematic name of he uvultuia. This plant was formerly used against relaxation of the uvula, but is now laid aside for more

remarking of trendies.

RUSH. See Arundo.

["RUSH, Benjamin, M. D., was born in December, 1745, near the city of Philadelphia, in Pennsylvania, and he died in that city in April, 1813, aged 63 years. Dr. Rush was a man of small stature, but of a strong and vigorous mind. During the eventful period of his life, he occupied the distinguished consideration of his The, he occupied the distinguished consideration of his countrymen, as one of the patriots of the American Revolution, as an able physician, as a priofessor in the medical school of Philadelphia, as a philanthropist, and as an exemplary Christian. His writings, on subjects connected with his professional pursuits, are numerous, and worthy the attention of members of the profession. Such as were printed during his life-time, treat on the following subjects, viz.:—"An Inquiry into the Natu-253

America, and a comparative View of their Discusses and Remedies, with those of civilized Nations," - An Account of the Chimate of Pennsylvania, and its laftu-ence upon the Human Body." -- An Account of the ence upon the Human Body, "—" An Account of the Bilinous Renorting Freyer, as it appeared in Pinnai spars in the Summer and Addition of 1.83" —" An Account of the Sectations Augment as appeared in Pinna delpina in 1783 and 1784"—" An Impuny Into the Cause and Cure of the Cholera Intanton," — Obsessi valions on the Cynanche Trachealis," —" An Account of the Ellicacy of Bissers and Ricocoling in the Care of obstrate Intermitting Fevers. "—" An Account of the Disease occasioned by drinking Cold Ware in Warm Weather, and the Method of ouring it."—" An Accounted of the Etheaey of common Salt in the cure of Hasney tysis."—" Thoughts on the Cause and Cure of Pul monary Consumption"—"Oaservations upon Worms monary Consumption — "Conservations upon Worthorn in the alimentary Canad, and upon anthelimintic Medi-cines,"—"An Account of the external use of Assertin in the cure of Cancels,"—"Observations on the To-tamus,"—"The Result of Observations made upon the Diseases which occurred in the Mahay Hospitals of the United States, during the Revolutionary War."— "An Account of the Inflaence of unitary and political "An Account of the Inflaence of military and position Events of the American Revolution upon the Human Body."—"An Inquiry into the Relations of Tastes and Aliments on each other; and upon the Influence of this Relationupon Health and Pleasure."—"Thenew Meth od of inoculating for the Small pox."—"An Inquiry into the Effects of ardent Spirits upon the Human Mind and Body, with an Account of the Means of piecenting, and the Remedies for curing them."—"Observations on the Induse of Physicians, and the Methods of unproving the Duties of Physicians, and the Methods of improving Medicines; accommodated to the present State of So-ciety and Manners in the l'inted States, "— An In-quiry into the Causes and Cure of sore Legs "— An Account of the State of the Body and Mind in Old Age, with Observations on its Diseases and their Remedies."—An Inquery into the Influence of Physical Causes upon the Moral Faculty."—"Observations upon the Cause and Cure of Pulmonary Conscimption. "chisevanius upon the Symptoms and Cane of Drop-sies."—" luquity into the Cause and Care of Gont."— "Observations on the Nature and Care of Hydro-pholia."—" An Account of the Messles as they ap-peared in Philadelphia in the Spring of 1,29,"—" An penied in Philadelphia in the Spring or 17-32." An Account of the Indivenza, as a appeared in Philadelphia in the years 17-30 and 17-41."—"An Inquity into the Cause of Animal Late."—"Outlines of a Theory of Fever."—"An Account of the Bracous Yellow Fever, as it appeared in Philadelphia in 17-32, and of care successive year till 18-95."—"An Inquity into the Causes Sources of the usual Forms of the Sammer and Authority Diseases in the Pariadel States and Inc. Memoral Diseases in the Pariadel States. tunnal Diseases in the United States and in Means of preventing them."—"Facts intended to prove the Yellow Facts intended to prove the Yellow Facts into the Blood letting, as a Remedy in certain Diseases.—"An Loger A. into the comparative States of Medicine in Philadelinto the comparative states of about the in Finladel-phia, between the years 1760 and 1766; and 1865, — A Volume of Fssays: Lateracy, Mocal, and Puro-sophical, in which the following Soliace's are dis-cussed—A Plan for establishing Public Schools in Ph. adelphia, and for consucting Education agreeably Pinnafelpida, and for consuring Televation agree only to a Republican Form of Government. Addressed for the Logislature and Crizzens of Pennsylvaeva, in the year 1786.—Of the Mode of Felocation proper in a Republic.—Observations upon the Study of the Lucia and Greek Languages, as a Branch of threat Lucia and Greek Languages, as a Branch of threat Lucia and them, accommodated to the press of State of Samely, Manness, and Government, in the United States.—Thoughts upon the Amusements and Prinsiping distribution of the Property of the Amusements and Prinsiping distribution of the Property of the Prinsiping of the Prinsi which are proper for Schools .- Thoughts upon Female Education, accommodated to the present State of Society. Manners, and Government, in the United States of America. - A Defence of the Bible as a School book. -An Add ess to the Ministers of the Gospel of every de-Am And res to the Affiliated in the Cospet of every de-nomination in the United States, upon Subjects interest-ing to Morals.—An Impairy into the Comissions, of the Punishment of Murder by Death, with Reason and Revelation.—A Pean of a Peace Office for the United States.—Information to Eurogeans who are drop seed to emigrate to the United States of America - Au of the Progress of Population, Agriculture, Mauners, and Government, in Pennsylvania.—An Account of

vania.—Thoughtson Common Sense.—An Account of the Vices peculiar to the Indians of North America.— Observations up in the Influence of the (laboral Use of Observations upon the lathernee of the Babtual Use of Technological beauty. Morals and Proporty.—An Actional of the Sugar Maple rouse, the United States. An Accounted the Late and Dead of Edward Drunker, who die do a tipe 1 th of Accounted Technological Commission of the United States. An Accounted the Lith of Accounted Technological Commission of the Commission of the United States, and the Commission of Accounted States of Regument Lays—Brographical America of Regument Lays—Brographical America of Authory Bouncet.—Paradise of Negro Staves, Three are Enterent mone Dr. William Fatter. For a Dream. - Enlegtum upon Dr. William Cullen. - Eu-legtum upon David Rutenhouse." - "A Volume of Lectures," most of which were introductory to his bectures," most of which were introductory to his annual Course of Lectures on the Institutes and Practice of Medicine, "Medical Injuries and Observations on the Diseases of the Mind,"—Thack, Med. Rush nut.

See Caperus esculentus.

Russ, switt. See Andropogon schananthus, and

RUSSELLI, ALEXANDER, was a native of Edinburgh, where he received his medical education, and afterward become physician to the English factory at Aleppo, where he resuled several years. He soon obtained a proud pre-eminence above all the practitioners tamed a proud pre-eminence above all the practitioners there, and was consulted by persons of every description. The packa particularly distinguished him by his friendsing, and sought his advice on every act of importance. In 1755, he published his "Natural History of Aleppo", a valuable and interesting work, contaming especially some important observations relative ing especially some important observations relative to the Piagure. On his return to England four years after, he settled in London, and was elected physician to St. Thomas's hospital, which office he returned till his death in 1770. He presented several valuable com-munications to the Royal Society, as also to the Medi-

RUSSELL, PATRICK, was brother of the preceding. and his successor as physician to the English factory at Aleppo. He published a copious treatise on the Plague, baving had ample opportunities of treating that diseases during 1500, and the two following years. In this work he has fully discussed the important subject of Characteria, and the basic land of Characteria. of Quarantine, Lazarettors, and the Police to be ad-pred in times of Pestilence. He likewise gave to the pushe a new edition of his brother's work on a very enlarged scale.

Ru sea ashes. The impure potassa, as imported

from Russia.

Rack. A carbonate of iron.
RUTA (From one, to preserve, because it preserves health.) 1. The name of a genus of plants in the Lannaean system. Class, Decandrea; Order, Monogunia.
2. The pharmacopaial name of the common rue.

See Ruta grav olens.

The systematic name of the RULY GRAVLOLENS. Rely Gravioliss. The Systematic name of the common rue. Rather-folies decomposities, fluribus laterated as gravitating and a littler, bot, penetrating taste; the leaves are so acid, that by much handing they have been known to irritate and inflame the skin; and the plant, in its natural or uncultivated state, is said to possess these sensible qualities still more powerfully. The imaginary quality of the rue, in resisting and expelling contagren, is now disregarded. It is doubtless a powerful s'randant, and is considered, like other nudicines of the first kind as possessing attenuating, deobstraent, and antispasmodic powers. In the former London Pharmacopa at it was directed in the form of an extract; and was also an ingredient in the pulcis c murcha comp, but these are now omitted. The dose of the leaves is from fitteen grains to two scruples.

RUTIDO'SIS. A corrugation and subsiding of the cornea of the eye. The species are,

1. Ratidosis, from a wound or puncture penetrating

th cornea. 2 Ratiolesis, from a fi-tula penetrating the cornea.

3. Rutidosis, from a deficiency of the aqueous hu-mon, which hap, ens from old age, tevers, great and continued evacuations, and in extreme dryness of the

4. Rutidusis, of dead persons, when the aqueous humour exhales through the cornea, and no fresh humour is secreted; so that the cornea becomes obscure; really before known, which led him into several conand collapsed: this is a most certain sign of death.

RUTILE. An ore of titanium.

RUTULA. (From ruta, rue.) A small species of

RUYSCH, FERDERICK, was born at the Hague, in 1638. Attergong through the preliminary studies with great zeal, he graduated at Leyden in 1664, and then settled in his native city. In the following year he published his treatise on the lacteal and lymphatic vessels; in consequence of which he was invited to the chair of anatomy at Amsterdam. From that period his attention was chiefly devoted to anatomical researches, both human and comparative; and be contributed materially to the improvement of the art of injecting, for the purpose of demonstrating minute structure, and preserving the natural appearance of parts. His museum became ultimately the most magnificent that any private individual had ever accumulated; and being at length purchased by the czar Peter for thirty thousand florins, he immediately set about a new collection. He appears not to have paid sufficient at-tention to inform himself of the writings of others, whence he sometimes arrogated to himself what was

troversies; but his indefatigable researches in anatomy were certainly rewarded with many discoveries. In 16c5, he was appointed professor of physic, and re-ceived subsequently several marks of distinction, as well in his own as from foreign countries. In 172s, he had the mistorium to break his thigh by a fall in his channer, and the remainder of his life, for about three years, was chiefly occupied in proceeding with his new museum, in which his youngest daughter assisted him. museum, in which his youngest daughter asseted him. Besides his controversal tracts, he published several other works, chiefly anatomical; "Observationum Anat. -Chirurg. Centuria;" twelve essays under the title of "Thesaurus Anatomicus;" at different periods, the last containing Remarks on the Anatomy of Vegetables; a "Thesaurus Animalium," with plates; three decades of "Adversaria Anat. Chirurg. Medica," &c.

RUYSCHIANA TUNICA. The internal surface of the choroid membrane of the human eye, which this celebrated anatomist imagined was a distinct lamina from

the external surface.

Ryas. See Rhwas.

RYE. See Sceale cereale.

A. The contraction of secundum artem.
S, or ss. Immediately following any quantity,

imports semis, or half.

SABADILLA. See Cradilla.
SABI'NA. Named from the Sabines, whose priests used it in their religious ceremonies. See Juniperus

SABULOUS. (Sabulosis; from sabulum, fine gravel) Gritty, sandy. Applied to the calcareous matter in urine

SABU'RRA. Dirt, sordes, filth. Foulness of the stomach, of which authors mention several kinds, as the acid, the bitter, the empyreumatic, the insipid, the

putrid.
SACCATED. (Succatus, encysted.) Encysted or contained in a bay-like membrane, applied to tumours, &c. Sec. Assets succatus.
SACCHAR ACMA. (Sec. America acid. SACCHARUM. (Susyapov, from suchar, Arabian.) I. The name of a semis of plants in the Limagan system. Class, Trumdra; Order, Dregmus. The sugar-cane.

2. The sweet substance called sugar. See Saccha-

oum officensie

See Acer saccharinum. SACCHARUM ACERNUM.

SACCHARUM ALBUM. Refined sugar

SACCHARUM ALUMINIS. Alum mixed with dragon's blood and dried.

SACCHARUM CANADENSE. See Acer pseudo platanus SACCHARUM CANDIDI M. Sugar-candy.

SACCHARI M NON PURILICATUM. Brown Sugar.

SACCHARUM ONS PERFECTION. Brown sugar.

SACCHARUM OFFICINALE. [Jenuado saccharicera of Sloane. The systematic name of the cane from which sugar is obtained. Sachar: Sacchar: Sactar if yellow chart: Zucaro; Zacar of the Arabiaus. Zacayao y acaxyaoy, of the Greeks.) Sugar is prepared in the West and East Indies from the expressed juice of this Private and tast runn's from the expressed pure of this plant boiled with the addition of quick line or common vegetable alkall. It may be extracted also from a number of plants, as the maple, brich, wheat, cord, beet-root, skirret, parsnips, and dried grapes, &c. by digesting in alkohol. The alkohol dissolves the sugar, and leaves the extractive matter untouched, which collected by the property of the property falls to the bottom. It may be taken into the stomach in very large quantities, without producing any bad consequences, although proofs are not wanting of its mischievous effects, by relaxing the stomach, and thus inducing disease. It is much used in pharmacy, as it inducing disease. It is much used in pnarmacy, as u-forms the basis of syrups, lozenges, and other prepara-tions. It is very useful as a medicine, although it cannot be considered to possess much power, to favour the solution or suspension of resins, oils, &c. in water, and is given as a purgative for infants. Dr. Cullen classes it with the attenuantia, and Bergius states it to

he saponacea, edulcorans, relaxans, pectoralis, vulne-raria, antiseptica, nutriens. In catarrhal affections, both sugar and honey are frequently employed: it has and from its known power in preserving animal and vegetable substances from purefaction, it has been given with a view to its antiseptic criters. Signature cardy, by dissolving slowly in the mouth, is well studed to relieve tickling coughs and hourseness. Sugar is Its presence is previously necessary in order to the taking place of vinous fermentation. Its extraction from plants, which afford it in the greatest abundance, and its refinement for the common uses of life, in a pure state, are among the most important of the chemical

The following is the mode of its manufacture in the West lindies: The plants are cultivated in rows, on fields enriched by such manures as can most easily be fields carriched by such manners as can most costly be procured, and tilled with the plough. They are an-nually cut. The cuttings are carried to the mill. They are cut into short precess, and arranged in small bundles. The mill is wrought by water, wind, or cattle. The parts which act on the caues are upught cylinders. Between these the caues are inserted, compressed till between these the caues are inserted, compressed till all their juice is obtained from them, and themselves, sometimes, even reduced to powder. One of these malls, of the best construction, bruises caues to such a quantity as to afford, in one day, 10,000 gallons of series, when wrought with only ten nutles. The expressed junce is received into a leaden bed. It is thence conveyed into a vess I called the receiver. The juice is found to consist of eight parts of pure water, one part of sugar, one part of oil and gummy mucilage. From the greener parts of the cames there is apt to be at times derived an acid juice, which tends to bring the whole unseasonably into a state of acid termentation. Frag-ments of the ligueous part of the cane, some portions of mud or dirt which unavoidably remain on the canes, and a blackish substance called the crust, which coated the causes at the joints, are also apt to enter into conta-minating mixture with the juice. From the receiver the juice is conducted along a wooden gutter lined with lead, to the boiling-house. In the boiling-house it is received into copper paus or caldrons, which have the name of clautiers. Of these claimers the number and the capacity must be in proportion to the quantity canes, and the extent of the sugar plantation on which canes, and me even of the sugar pantation on which the words is cartied on. Each clarifier has a syphon or cock, by which the liquor is to be drawn off. Each haurs over a separate fire; and this fire must be so confused, that by the drawing of an iron slider fitted to the chimney, the fire may be at any time put out. the progress of the operations, the stream of juice from 255

the receiver fills the clarifiers with fresh liquor. in powder is added in order to take up the oxalic acid and the carbonaceous matters which are mingled with and the carbonaceous matters which are uniqued with the juice. The lime also in the new salts, mot the composition of which it now enters, adds itself to the sugar, as a part of that which is to be obtained from the process. The lime is to be put in the proportion of somewhat less than a pint of lime to every hundred gallons of liquor. When it is in too great quantities, how-ever, it is apt to destroy a part of the pure saccharme matter. Some persons employ alkaline ashes, as preneater to lime, for the purpose of extracting the extra-neous matter; but it is highly probable that lime, judi-ciously used, might answer better than any other sub stance whatsoever. The liquor is now to be heated almost to ebullition. The heat dissolves the mecha nical union, and thus favours the chemical changes in its different parts. When the proper heat appears from a rising seum on the surface of the liquor to have been produced, the fire is then extinguished by the applica-tion of the damper. In this state of the liquor, the greater part of the impurities, being different in spe cific gravity from the pure sacchaine solution, and being also of such a nature as to yield more readily to the chemical action of heat, are brought up to the sur face in a seum. After this seum has been sufficiently formed on the cooling liquor, this liquor is carefully drawn off, either by a syphon, which raises a pure stream through the seum, or by a cock drawing the liquor at the bottom from under the scum. The scum, in either case, sinks down unbroken, as the liquor flows; and is now, by cooling, of such tenacity, as not to tend to any intermixture with the liquor. The liquor drawn, after this purification from the boiler, is received into a gutter or channel, by which it is conveyed to the grand copper, or evaporating boiler. It made from good canes, and properly clanified, it will now appear almost transparent. In this copper the liquor is heated to actual ebullition. The scum raised to the surface by the boiling is skimmed off as it rises. contact by the manual assuming of as it lises. The minution in the quantity of the liquor. The liquor mappears nearly of the colour of Madeira wine. It is at last transferred into a second and smaller copper. An addition of lime water is here made, both to diduct the thickening liquer, to detach the super abundant acid. thekening inquer, to getach the sugar. If the hiptor and to favour the formation of the sum rises in large bub-bles, with very little discoloration. The skumming and the evaporation together produce a considerable dimi-nution in the quantity of the liquor. It is then trans-ferred into another smaller bother. In this fast boiler the evaporation is renewed, and continued till the liquor is brought to that degree of thickness at which is appears tit to be finally cool d. In the cooler, (a shall low wooden vessel of considerable length and wideness commonly of such a size as to contain a bogshead of sugar,) the sugar, as it cools, granulates, or runs into an imperfect crystallization, by which it is separated from the molasses, a mixed saccharine matter too impure to the molasses, a mixed sacrame many too inquire too inquire be capable even of this imperfect crystallization. To determine whether the liquor be fit to be taken from the last boiler to be finally cooled, it is necessary to take out a portion from the boiler, and try separately, whether it does not separate into granulated sugar and melasses. From the cooler, the sugar is removed to the curing-house. This is a spacious, any building. It is provided with a capacious eistern for the reception It is provided with a capacious estern for the reception of melasses, and over the cistern is erected a frame of strong joist-work, unfilled and uncovered. Empty hogsheads open at the head, bored at the bottom with a few heles, and having a stalk of plantain leaf throat through each of the holes, while it rises at the same time through the inside of the hogshead, are disposed upon the frames. The mass of the saccharine matter from the coolers is put into these hogsheads. The masses drip into the cistern through the sonogy plantain lasses drip into the cistern through the spongy plantain stalks in the holes. Within the space the melasses are sufficiently drained off, and the sugar remains dry. By this process it is at last brought into This is the general process in the British West Indies.
In this state our West India sugar is imported into Britain. The formation of loaves of white sugar is a gubsequent process. In the French West India isles it has long been customary to perform the last part of

and which affords the sugar in a state of greater purity. This preparation, taking the sugar from the cooler, then puts it, not into hogsheads with holes in the bottom as above, but into conteal pots, each of which has at us bottom a hole half an inch in diameter, that is, in the commencement of the process, stopped with a plug. the commencement of the process, stopped with a plug. After remaining sometime in the pot, the sugar becomes perfectly cool and fived. The plug is then removed out of the hole; the pot is placed over a large pix, and the inclusions are suffered to drip away from it. After as much of the melasses as will easily um off has been thus drained away, the surface of the sugar in the par is covered with a stratum of line clay, and water is papered must the clay. The water against in the jar is covered upon the clay. The water ozing gently through the pores of the clay, pervades the whole mass of sugar redissolves the melasses, still remarning in it, with some parts of the sugar itself, and carrying these off by the holes in the bottom of the pot, renders that which resists the solution much purer than the muscovado sugar made in the English way. than the muscovado sugar made in the English way. The sugar prepared in this manner is called clayed sugar. It is sold for a higher price in the European market than the muscovado sugar; but there is a lose of sugar in the process by claying, which deters the British planters from adopting this practice so generally as do the French.

The raw sugars are still contaminated and debased by a mixture of acid carbanageaus matter of sold sugar process.

a mixture of acid, carbonaccous matter, oil, and louring resm. To free them from these is the basicolouring resm. colouring result. To tree them from these is the basi-ness of the European sugar-bakers. A new solution; clarification with alkaline substances fitted to attract away the oil, acid, and other contaminating matters; slow evaporation; and a final cooling in suitable months, are the processes which at last produce loaves of white sugar.

of white sugar.

The melasses being nothing else but a very impure refuse of the sugar from which they drip, are susceptible of being employed in a new ebullition, by which a second quantity of sugar may be obtained from them The remainder of the melasses is employed to yield rum by distillation. In rum, alkohol is mixed with oil, water, oxalic acid, and a mixture of empyreamatic matter. The French prepare, from the mixture of melasses with water, a species of wine of good quality. In its pre-paration, the solution is brought into fermentation, then passed through strangers to purify it, then put in casks, after clearing itself in these, transferred into others, in which it is to be preserved for use. The ratio of these processes is extremely beautiful; they are all directed to purify the sugar from contaminating mixtures, and to reduce it into that state of dryness or crystallization, in which it is susceptible of being the most con-veniently preserved for agreeable use. The heat in veniently preserved for agreeable use. The heat in general acts both mechanically to effect a sufficient dissolution of the aggregation of the parts of the cane juice. and chemically to produce in it new combinations into which caloric must enter as an ingredient. The first genue heat is intended cheely to operate with the mechanical influence, raising to the surface impurities, which are more easily removed by skimming, than by any other means; a gentle, not a violent heat, is in this instance employed, because a violent heat would produce empyreumatic salts, the production of which is to be casefully avoided. A boiling heat is, in the conti-mation of the processes, made use of because, after the first impurities have been skimmed off, contaminating empyreumatic salts are less readily formed, because a boiling heat is necessary to effect the complete developement of the saccharine matter, and because the gradual concentration of the sugar is, by such a heat, to be lest accomplished. Lime is employed, because it has a stronger affinity than sugar with all the contaminating matters, and particularly because it at tracts into a neutral combination that excess of oxalic acids which is apt to exist in the saccharine solution. Skimming removes the new salts, which the most easily assume a solid form. The drippings carries away a mixture of water, oil, earth, and sugar, from the crystallized sugar, for, in all our crystallizations, we can never per-form the process in the great way, with such nicety as to preserve it free from an inequality of proportions that must necessarily occasion a residue. Repeated solution, clarification, evaporation, are requisite to produce pure white sugar from the brown and raw sugars; because the complete purification of this matter from acid and colouring matter, is an operation of great this train of processes in a manner somewhat different, | difficulty, and not to be finally completed without processes which are longer than can be conveniently per formed, at the first, upon the sugar plantation. From roman at the mist, upon the singar plantation. From vegetables of European growth, singar is not to be easily obtained, unless the process of germination be first produced in them; or unless they have been penetrated by intense frost. Germination, or thorough freezing, developes sugar into all vegetables in which its principles of hydrogen and carbon, with a small proportion of oxygen, exist in any considerable plenty. is not improbable, but that it penetration by a freezing cold could be commanded at pleasure with sufficient cheapness, it would enable us to obtain saccharine matter in a large proportion, from a variety of substances from which even generation does not yield a sufficient quantity. In the beet, and some other European vegequantity. In the bect, and some other European vegetables, sugar is naturally formed by the functions of vegetation to perfect combination. From these the sugar is obtained by rasping down the vegetable, extracting by water its saccharine juice, evoporating the water charged with the juice to the consistency of syrup, clarifying, purifying, and crystallizing it, just in the same manner as sugar from the sugar cane. It is afforded by the maple, the birch, wheat, and Turkey corn. Margnat obtained in from the roots of beet, red beet, skirrit, passings, and dried grapes.

In Canada, the inhabitants extract sugar from the maple. At the commencement of spring, they heap snow in the evening at the foot of the tree, in which they previously make apertures for the passage of the

they previously make apertures for the passage of the returning sap. Two hundred pounds of this juice afford, by evaporation, fifteen of a brownish sugar. The quantity prepared annually amounts to fifteen thousand weight.

The Indians likewise extract sugar from the pith of

The beet has lately been much cultivated in Germany for the purpose of extracting sugar from its root. this the roots are taken up in autumn, washed clean, wiped, sliced lengthwise, strung on threads, and hung up to dry. From these the sugar is extracted by maceration in a small quantity of water; drawing off this upon fresh roots, and adding fresh water to the fresh roots, which is again to be employed the same way, so as to get out all their sugar, and saturate the water as much as possible with it. This water is to be strained and boiled down for the sugar.

Some merely express the juice from the fresh roots, and boil this down; others boil the roots; but the sugar extracted in either of these ways is not equal in quality

to the first

Professor Lampadius obtained from 110 lbs. of the Professor Lampadius obtained from 110 lbs. of the roots, 4 lbs. of well grained white powder sugar: and the residumns afforded 7 pints of a spirit resembling rum. Achard says, that about a ton of roots produced limin 100 lbs. of raw sugar, which gave 55 lbs. of refused sugar, and 25 lbs. of treacle.

Sugar is very soluble in water, and is a good medium for unting that fluid with oily matters. It is much used for domestic purposes, and appears on the whole to be a valuable and wholesome article of food, the verse of which are most rootably restricted he ins high

uses of which are most probably restricted by its high

It appears that sugar has the property of rendering

some of the earths soluble in water.

The union of sugar with the alkalies has been long known; but this is rendered more strikingly evident, by carbonated potassa or soda, for instance, decom posing the solutions of lime and strontia in sugar, by

double affinity. In making solutions of unrefined sugar for culinary purposes, a gray-coloured substance is found fre-quently precipitated. It is probable that this proceeds from a superabundance of lime which has been used in clarifying the price of the sugar-cane at the planta-tions abroad. Sugar with this imperfection is known among the refiners of this article by the name of weak. And it is justly termed so, the precipitated matter being nothing but lime which has attracted carbonic acid from the sugar (of which there is a great probability), or from the air of the atmosphere. A bottle, in which Dr. Ure kept a solution of lime in sugar for at least four years, closely corked, was entirely incrusted with a yellowish coloured matter, which on examination was found to be entirely carbonate of hime.

Kirchoff, an ingenious Russian chemist, accidentally discovered, that starch is convertible into sugar, by being boiled for some time with a very dilute sulphuric

acid. Saussure showed, that 100 parts of starch yield 110 of sugar

Braconnot has recently extended our views concern-Braconnot has recently extended our views concerning the artificial production of sugar and gum. Sulphuric acid (sp. gr. 1.827) mixed with well-dried elm-dust, became very hot, and on being diluted with water, and neutralized with chalk, afforded a liquor which became gummy on evaporation. Shreds of linen, triturated in a glass mortar, with sulphuric acid, yield a similar gum. Nitric acid has a similar power. If the gummy matter from linen be boiled for some time with dilute sulphuric seid we obtain a crystaltime with dilute sulphuric acid, we obtain a crystalhzable sugar, and an acid, which Braconnot calls the vegeto-sulphuric acid. The conversion of wood also vegeto-supplieric acid. The conversion of wood also into sugar, will no doubt appear remarkable; and when persons not familiarized with chemical speculaverted into more than a pound weight of rags can be converted into more than a pound weight of sugar, they may regard the statement as a piece of pleasantry,

though nothing, says Beaconnot, can be more real.
Silk is also convertible into gum by sulphuric acid
Twelve grammes of glue, reduced to powder, were
digested with a double weight of concentrated sulphuric acid without artificial heat. In twenty hours fiquid was not more coloured than if mere water had been employed. A decilitre of water was then added, and the whole was boiled for five hours, with renewal of the water, from time to time, as it wasted. It was next cliuted, saturated with chalk, filtered, and evaporated to a syrupy consistence, and left in repose for a month. In this period a number of granular crystals had separated, which adhered pretty strongly crystals had separated, which adhered pretty strongly to the bottom of the vessel, and had a very decided succharine taste. This sugar crystalizes much more easily than cone sugar. The crystals are gritty under the teeth, like sugarcandy; and in the form of flattened prisms or tabular groupes. Its taste is nearly as sarchanne as grape sugar; its solubility in water scarcely exceeds that of sugar of milk. Boiling alkohol, even when diduted, has no action on this sugar By distillation it yields ammonia, indicating the presence of azote. This sugar combines intimately with mitric acid, without semsibly decomposing it, eyes with nitric acid, without sensibly decomposing it, even with the assistance of heat, and there results a peculiar crystallized acid, to which the name nitro-saccharino has been given. Annales de Chame, xii., or Tillock's Magazine, vols. Iv. and Ivi.

The varieties of sugar are; cane sugar maple sugar,

liquid sugar of finits, sugar of figs, st. . . . 'grapes starch sugar, the mushroom sugar of Bracon iot, man sugar of gelatin, sugar of honey, and ugar of

Sugar of grapes does not affect a peculiar form. is deposited, from its alkoholic solution, in small grains, which have little consistence, are grouped together, and which constitute tubercles, similar to those of canliflowers. When put in the mouth, it produces at first a sensition of coolness, to which succeeds a saccharine taste, not very strong. Hence to sweeten to an equal degree the same quantity of water, we must employ two and a baff times as fauch sugar of grapes as of that of the cane. In other esspects, it possesses all the properties of cane sugar. Its extraction is very casy. The expressed pince of the gapes is composed of water, sugar, mucilage, bitartrate of potassa, tartrate of lime, and a small quantity of other saline matters. We pour into it an excess of chalk in powder, which have little consistence, are grouped together, trate of time, and a small quantity of other saline mat-ters. We pour into it an excess of chalk in powder, or rather of pounded marble. There results, especially on agitation, an effervescence, due to the unsaturated tartaric acid. The liquor is then clarified with whites of eggs or blood. It is next exa-ated in copper pans, till it marks a density of 1.32 to the boiling tempera-ture. It is now allowed to cool. At the end of some days, it concretes into a crystalline mass, which, when drained, washed with a little cold water, and strongly connerses, constitutes somer. compressed, constitutes sugar

compressed, constitutes signit.

In the south of France, where this operation was some years back carried on on the great scale, to prevent fermentation of the must, there was added to this a little sulphate of lime, or it was placed in tuns, in which sulphur matches had been previously made to burn. The oxygen of the small quantity of air left in the tans being thus abstracted by the sulphurous cold forgungation due to take made. By this means acid, fermentation did not take place. By this means the must can be preserved a considerable time; whereas, in the ordinary way, it would lose its saccharine taste at the end of a few days and become vinous

Must thus treated, is said to be muted. The symp was evaporated to the density of only 1.250.—Pranst. Ann. de Chanie, 18iz. 131.; and the Collection of Memoirs published by Parmenter in 1813.

It is this species of sugar which is obtained from starch and woody fibre by the action of dilute sul

Sugar of diabetes has sometimes the sweetening force of sugar of grapes; occasionally much less.

Braconnot's mushroom sugar is much less sweet than that of the cane. It crystallizes with remarkable facility, forming long quadrilateral prisms with square bases. It yields alkohol by fermentation.

All honeys contain two species of sugar; one sum lar to sugar of the grape, another like the uncrystal lizable sugar of the cane (melasses). These combined and mingled in different proportions with an odorant matter, constitute the honeys of good quality. Those

of inferior quality contain, besides, a certain quantity of wax and acid the honeys of Britanny contain even an annual secretion (convoins to which they owe their pulie-rent quality A slight washing with a little purestern quancy ( sign) washing with a filler alkohol separates the uncry stallizable sign), and leaves the other, which may be purified by washing with a very little more alkohol.

"The relation," says Dr Prout, "which exists be-tween usea and sman, seems to explain in a satisfactory manner the phenomena of diabetes, which may be tory manner the premonent as consequences, when may be considered as a deprayed secretion of signs. The weight of the atom of signs, is just half that of the weight of the atom of men; the absolute quantity of hydrogen magiven weight of both is equal; while the absolute quantities of carbon and oxygen in a given weight of sugar, are precisely twice those of urea."

The constituents of these two bodies and lithic acid,

are thus expressed by that ingenious philosopher :-

| ELEMENTS              | UREA. |                            |                                 | St GAR. |                       |                        | Татие Асть. |                                 |                                 |
|-----------------------|-------|----------------------------|---------------------------------|---------|-----------------------|------------------------|-------------|---------------------------------|---------------------------------|
|                       | No.   | Per.<br>Atom.              | Per<br>Cent.                    | No.     | Per<br>Atom.          | Per<br>Cent.           | No.         | Per<br>Vioni.                   | Per<br>Cent.                    |
| Hydrogen Oxygen Azote | 1 .   | 2.5<br>7.5<br>10.0<br>17.5 | 6.66<br>19.99<br>26.66<br>46.66 | 1 1     | 1.25<br>7.50<br>10.00 | 6 66<br>39,99<br>53,33 | 1 1         | 1.25<br>15.00<br>10.00<br>17.50 | 2.85<br>31.28<br>22.85<br>40.00 |
|                       | 5     | 37.5                       | 100.10                          | 3       | 18.75                 | 100.10                 | 5           | 43.75                           | 100 10                          |

The above compounds appear to be formed by the union of more simple compounds; as sugar, of carbon and water; urea, of carbinetted hydrogen and ni-trous oxide; little acid, of cyanogen and water, &c.; whence it is inferred, that their artificial formation falls within the limits of chemical operations. SACCHAREM OFFICINATUM. The systematic name

in some pharmacopæias of the sugar-cane. See Suc

SACCHARUM PURIFICATUM. Double refined, or loaf-Sugar. See Saccharum.
Saccharum saturni. See Plumbi acetas.
SACCHO-LACTIC. So called, because it is sugar

prepared from milk. Saccho-luctic acid. Acidum saccholacticum. See

SACCHOLATE. Saccholas. A salt formed by the combination of the saccholactic acid with salifiable bases, as saccholate of iron, saccholate of ammo-

SACCULUS. (Dim. of saccus, a bag.) A little

SACCULUS ADIPOSUS. The bursæ mucosæ of the joints.

SACCULUS CHYLIFERYS. See Receptaculum chyli. Sacculus cordis. The pericardium.

SACCULUS LACHRYMALIS. See Saccus lachrymalis

SA'CCUS. A bag.

SACULUS. A long.

SACUS LACHRYMALIS. The lachrymal sac is situated in the internal candius of the eye, behind the lachrymal caruncle, in a cavity formed by the os unguis. It receives the tears from the puncta lachrymal care in the control of the rymalia, and conveys them into the ductus lachry.

SA'CER. (From sagur, secret, Heb.) Applied to some diseases which were supposed to be immediately inflicted from heaven; as succe morbus. the epilepsy, sacer ignis, eryspelas, &c. A bone is called the os sacrum, because it was once offered in sacrifices. Sacer also means belonging to the os

SACK. A wine used by our ancestors, which some have taken to be Rhenish, and others Canary wine. nave taken to be Rhemish, and others Canary wine. Probably it was what is called day meantain, or some Spanish wine of that sort. Howel, in his French and English Dictionary, 1650, translates sack by the words vin d'Espagne. Vin. sec.

SACLACTATE. A combination of saccholactic acid with a salifiable basis.

SACLACTIC ACID. See Mucre acid..

SACLACTIC ACID. See Mucre acid..

SACRA HERBA. Common vervain.

SACRA TINCTURA. Made of aloes, canella, alba, and mountain wine

SACRAL. Of or belonging to the sacrum: assacra arteries, veins, nerves, &c.
SATRO. Words compounded of this belong to the

sacrum.

SARO COCCYOAUS. A muscle arising from the sacrum, and inserted into the os coccygis.

SACIO LEMBALIS. Sucro lumbarrs, of authors, Lumba costa trachelien of Dumas. A long muscle, thicker and broader below than above, and extending from the ossacrum to the lower part of the neck, under the serrati postici rhomboideus, trapezius, and latissi-iums dorsi. It arises in common with the longissiums mus does. It assess it common with the longestimus dorsi, tendinous without, and fleshy within, from the posterior part of the os sacrum; from the posterior edge of the spine of the film; from all the spineous process; and from near the roots of the transverse processes of the lumbar vertebra. At the bottom of the back it separates from the longissimus dorsi, with which it had before formed, as it were, only one mus cle, and ascending obliquely outwards, gradually di-minishes in thickness, and terminates above in a very narrow point. From the place where it quits the longissimus dorsi, to that of its termination, we find it iongressimus dorst, to that or us termination, we may it doesly at its posterior, and tendinous at its auterior edge. This tendinous side sends off as many long and thin tendous as there are ribs. The lowermost of these tendous are broader, thicker, and shorter than those above; they are inserted into the inferior edge of each rib, where it begins to be curved forwards towards the sternum, excepting only the uppermost and last tendon, which ends in the posterior and inferior part of the transverse process of the last vertebra of the neck fransverse process of the five, six, seven, eight, nine, from the upper part of the five, six, seven, eight, nine, ten, or eleven lower ribs, (for the number, though most commonly seven or eight, varies in different subjects,) arise as many thin bundles of fleshy fibres, which, after a very short progress, terminate in the inner side of this muscle, and have been named by Steno, muscult ad sacro lumbalem accessorii. Besides these we find the muscle sending off a fleshy slip from its upper part, which is inserted into the posterior and inferior part of the transverse processes of the five inferior vertebrae of the transverse processes of the five interior verteurs of the neck, by as many distinct tendons. This is generally described as a distinct muscle. Diemerbroeck, and Douglas, and Albinus after him, call it conviculis descendens. Winslow names it transversatics collaterales call. Mongagin considers it as an appendage to the sacro lumbalis. The uses of this muscle are to assist in creeting the trank of the body, is any configuration and in draw-americant many its axis or tome safe and in draw-americant. in turning it upon its axis or to one side, and in drawing the ribs downwards. By means of its upper shp, it serves to turn the neck obliquely backwards or to

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SACRO-SCIATIC LIGAMENTS. The ligaments which |

connect the ossa innominata with the os sacrum.

SA'CRUM. (So called from sacer, sacred; because it was formerly offered in sacrines.) Os sacrum. Os basilare. The os sacrum derives its name from its Os bissilare. The osser-unitering being offered in sacrifice by the ancients, or perhaps from its supporting the organs of generation, which Hom he supporting the organs of generation, when they considered as savered. In young subjects it is composed of five or six pieces, united by cartilage: but in more advanced age it becomes one home, in which, however, we may still casily distinguish the marks of the former separation. Its shape has been sometimes compared to an irregular triangle; and Sometimes configure to arrivegua mange, as sometimes, and perhaps more properly, to a pyramid, flattened before and behind, with its basis placed towards the lumbar vertebra, and its point terminating in the coccyx. We find it convex behind, and slightly In the cocky. We find reconvex behind, and sugary, concave before, with its inferior portion bent a fittle forwards. Its anterior surface is smooth, and affords four, and sometimes five transverse lines, of a colour different from the rest of the bone. These are the remains of the intermediate cartilages by which its several pieces were united in infancy. Its posterior surface has several prominences, the convex surface has several prominences, the most remarkable of which are its spinous processes; these are usually three in number, and gradually become shorter, so that the third is not so long as the second, nor the second as the first. This arrangement enables us to sit with ease. Its transverse processes are formed into one oblong process, which becomes gradually smaller as it descends. At the superior part of the bone we observe two oblique processes, of a cylindrical shape, and somewhat concave, which are articulated with the last of the lumbar vertebra. At the base of each of last of the Immon verteers. At the base of each of these oblique processes is a notch, which, with such another in the vertebra above it, forms a passage for the twenty-fourth spinal nerve. In viewing this bone, either before or behind, we observe four, and some times five holes on each side, situate at each extremity of the transverse lines which mark the divisions of the bone. Of these holes, the anterior ones, and of these again the uppermost, are the largest, and afford a pas sage to the nerves. The posterior holes are smaller, covered with membranes, and destined for the same purpose as the former. Sometimes at the bottom of the bone there is only a notch, and sometimes there is a hole common to it and the os coccygis. The cavity between the body of this bone and its processes, for the lodgment of the spinal marrow, is triangular, and becomes smaller as it descends, till at length it termi-nates obliquely on each side at the lower part of the Below the third division of the bone, however. the cavity is no longer completely bony, as in the rest of the spine, but is defended posteriorly only by a very strong membrane; hence a wound in this part may be attended with the most dangerous course quences. This bone is articulated above, with the last lumbar vertebra: laterally it is firmly united, by a broad irregular surface to the ossa innominata, or hipbones: and below it is joined to the os cocrygis. In women the os sacrum is usually shorter, broader and more curved than in men, by which means the cavity of the pelvis is more cularged. SAFFLOWER. See Carthamus.

SAFFRON. See Crocus. Saffron, bustard. See Carthamus.

See Colchicum Soffron, meadow.

Saffron of steel A red oxide of non. SAGAPE'NUM. (The name is derived from some eastern dialect.) Scrapmum. It is conjectured that this concrete gummi-resinous juice is the produc tion of an oriental umbelliferous plant. Sagapenuis brought from Persia and Alexandria in large masse Sagapenum emernally yellowish, internally paler, and of a horny clearness. Its faste is hot and biting, its smell of the alliaceous and feetid kind, and its virtues are similar

to those which have been ascribed to asafirtida, but weaker, and consequently it is less powerful in itseffects.

SAGE. See Salva.
Sage of Bethelnem. See Pulmonaria.
Sage of Ferusalem. See Pulmonaria officinalis.
Sage of rirtue. See Salva hortenses menor.

Sage of circle: SAGENITE. Acicular rutile.
SAGITTAL. (Sagittalus; from sagitta, an arrow.) Shaped like an arrow.

SAGITTAL SUTURE Satura sagittulis, virgata, obelwa, rhabdoides. The suture which unites the two to sale.

parietal bones. It has been named sagittal, from its lying between the coronal and lambdoidal sutures, as an arrow between the string and the bow

all or flow between the string and the now.

SAGTETA RIA. (So called from sagrita, an arrow, in allosson to the shape of the leaves in the original species and some others.) The name of a genus of plants in the Linnaan system. Class, Monweia : Order, Polyandria,

SAGILLARIA ALEMPHARMICA. indica: . leundo indica. The sy-Malacca; indica: . Irando indica. The systematic name of the plant cultivated with great care in the West Indies, for plant cultivated wint great case in the residual to the its root, which is supposed to be a remedy for the wounds of poisonous arrows. The root of this species, called radio malocoa, is sometimes used medicinally.

SAGITTARIA SAGITTHOLIA. The systematic name of the common arrow head, the roots of which are es-

of the common arrive near, the roots of which are ex-culent, but not very muritions. SAGITTATUS. (From sagittas, an arrow.) Ar-row shaped applied to leaves, &c. which are triangular and hollowed out very much at the base; as the leaves of the Sagittana sagittifolia.

of the Sagnitura sagnitural.

SAGO. See Cuoas servenalis.

SAGU. See Cyeas cerevialis.

SAHLITE. Malacholite. A sub-species of oblique edged augite, of a greenish colour, and found in Unst in Shetland, in Tiree, and Gentilt.

Saint Anthony's fire. See Ergsipelas. Saint Inthony's fire. See Ergsipelas. Saint Innes's sean. See Ignatia amava. Saint John's wort. See Sencero jacobia. Saint John's wort. See Hypercum. Saint Valus's dimee. See Charea sancti viti.

Saint Fitus's dance. See Chorea sancti viti.
SAL Coal, salts. in. and, rarely, neut. from the Greek, \$\hat{a}\text{k}\_1\$, salt. See Saline.
SAL ABSTRUIT. See Foliassa subcarbonas.
SAL VESTOSILLA. See Oralis acceptable.
Sal alembroth. A compound muriate of mercury and automotion. and ammonia.

SAL ALKALINUS FINUS. See Alkali fixum.

SAL ALEATINES VOLATILIS. See . Immonia.
SAL AMMONIAC. (So called because it was found in Egypt, near the temple of Jupiter Anmon.) Murias ammonia. A saline concrete formed by the combination of the muriatic acid with ammonia. This salt is

obtained from several sources. 1. It is found in places adjacent to volcanoes. It appears in the form of an efflorescence, or groupes of appears in the many compacted together, generally of a yellow or red colour, and mixed with assence and orpinent; but no uses is made or that when is procured in this way. This native sal ammoniac is distinct this way. in this way. This native sal ammoniac is distinguished by mineralogists, into, 1. Volcanic, which occurs in efflorescences, imitative shapes, and crystal blized in the vicinity of burning beds of coal, both in Scotland and England, at Solfaterra, Vesuvius, Ætna, &c. 2. Conchordal, which occurs in angular preces, it is said, along with sulphur, in beds of indurated clay,

or clay slate, in the country of Bucharia. 2. In Egypt it is made in great quantities from the soot of camel's dung, which is burned at Cairo instead This soot is put into large round bottles, a of wood. foot and a half in diameter, and terminating in a neck two inches long. The bottles are filled up with this matter to within four inches of the neck. Each bottle holds about forty pounds of soot, and affords nearly six pounds of sait. The vessels are put into a furnace six pounds of sait. The vessels are put into a furnace in the form of an oven, so that only the necks appear A fire of camel's dung is kindled beneath it, and continued for three days and three nights. On the second and the third days the salt is sublimated. The bottles are then broken, and the salt is taken out in cakes. These cakes, which are sent just as they have been taken out of the bottles in Egypt, are convex, and unequal on the one side; on the middle of this side they exhibit each a turbercle corresponding to the neck of the bottle in which it was prepared. The lower side is concave, and both are sooty.

3. In this country, sal ammoniac is likewise prepared in great quantities. The volatile alkali is obtained from soot, bones, and other substances known to contain it. To this the sulphuric acid is added, and the subpliate of amazona so formed, is decomposed by miniate of soda, or common salt, through a double affinity. The liquor obtained in consequence of this decomposition contains sulphate of soda and muriate of ammonta. The first is crysatllized, and the second sublimated so as to form cakes, which are then exposed

Anishomacal murlate has a poignant, acid, and urinous taste. Its crystals are in the form of long hexahedral pyramids; a number of them are sometimes united ogether in an acute angular direction, so as to exhibit the form of feathers. Rome de Lille thinks the crys tals of ammoniacal muriate to be octahedrous bumilied together. This salt is sometimes, but not frequently, found in cubic crystals in the middle of the concave hollow part of the sublimated cakes. It possesses one singular physical property, a kind of ductifity or elasticity, which causes it to yield under the hammer, or even the fingers, and makes it difficult to reduce to a Muriate of ammonia is totally volatile, but powder. a very strong fire is requisite to sublime it. It is hable a very strong fire is requisite to sublime it. It is hable to no alteration from air; it may be kept for a long time without suffering any change; it dissolves very readily in water. Six parts of celd water are sufficient to dissolve one of the salt. A considerable cold is produced as the solution takes place, and this cold its still keener when the salt is mixed with ice. This artificial cold is happily applied to produce several phenomena, such as the congelation of water on certain occasions, the crystalization of certain salts, the fixation and preservation of certain liquids, naturally very subject to evaporation, &c.

SALAMMONIACUM ACETOSUM. See Ammonia acetatis

liquor.

SAL AMMONIACUM LIQUIDUM. See Ammoniae aceta

SAL AMMONIACUM MARTIALE. See Ferrum ammo mintum.

SAL AMMONIACUM SECRETUM GLAUBERI. See Sal phas ammonia.

SAL AMMONIACUM VEGETABILE. See Ammonia acctatis liquor.

SAL AMMONIACUS FIXUS. The muniate of lime was formerly so termed.

SAL AMMONIACUS NITROSUS. Se SAL ANTIMONII. Tartar emetic. See Nitras ammoniæ.

SAL ANTIMONII. Tartar emetic. SAL ARGENTI. See Argenti nitras.

SAL CATHARTICUS AMARUS. See Magnesie sul

SAL CATHARTICUS ANGLICANUS. See Magnesia sul

SAL CATHARTICUS GLAUBERI. See Sodæ sulphas. SAL COMMUNIS. See Sodæ murius. SAL CORNU CERVI VOLATILE. See Ammonia subcar

bonas. SAL CULINARIS. See Sodo murias.
SAL DE DUOBUS. See Potasso sulphas
SAL DIURETICUS. See Potasso acctus.

SAL DIGESTIVUS SYLVII. See Murias potassæ. SAL EPSOMENSIS. See Magnesia sulphus.

SAL FEBRIFUGUS STEVIL See Marius potassa. SAL FONTIUM. See Soda marius. SAL FONSILIS. See Soda marius.

SAL GEMME. See Sode murias.

Sal Glauberii. See Soda sulphas. Sal herbarum. See Potassa subcarbongs. Sal marnus. See Soda murius. Sal martis. See Ferri sulphus.

SAL MARTIS MURIATIOUM SUBLIMATUM. See Ferrum ammoniatum.

SAL MICROCOSMICUS. The compound saline matter obtained by inspissating human urine.

SAL MIRABILIS GLAUBERI. See Sodie sulplas.
SAL MIRABILIS GLAUBERI. See Sodie sulplas.
SAL PLANTARUM. See Potasse subcarbonas.
SAL POLYCHRESTUS. See Potasse sulplus.

SAL POLYCHRESTUS GLASERI. See Potassa sul

SAL POLYCHRESTUS SEIGNETTI. Sec Soda tartari-

SAL PRUNELLE. Nitrate of potassa cast into flat cakes or round balls.

See Soda tartarizata. SAL RUPELLENSIS.

SAL SATURNI. See Plumbi acetas.

SAL SEDATIVUS. See Boracic acid

Sal Beddervos. See Boracte acid.
Sal Beidnertti. See Soda tartarizata.
Sal Beidnertti. See Succinic acid.
Sal Baltartari. See Tartaric acid.

SAL THERMARUM CAROLINARUM. See Magnesiæ sulphas.

SAL VEGETABILIS. See Potassæ tartras.

Sat volatile. See Spiritus ammonia aromaticus, and Ammonia subcarbonas.

SA: VOLUTILIS SALIS AMMONIACI. See Ammonia

salverhous.
SALEP. Salap. See (trehts morto.
SALEP. Salap. From salar, a willow; from the re-

Lightram salrearia.

SALICO RNIA. The name of a genus of plants in the Linneau system. Class, Monandra; Order, Monag guta.

SALICORNA EUROPEA. The systematic name of the jointed glass wort, which is gathered by the country people and sold for samphire. It forms a good pickle

with vinegar, and is little interior to the sampline.
SALIFIABLE. Having the property of forming a satt. The alkalies, and those earths, and metallic oxides, which have the power of neutralizing acidity, original to the control of the control of

tirely or in part, and producing salts, are called salifiable base

SALANE. (Salinus: from sal, salt.) Of a sait ature. The number of saline substances is very considerable; and they possess peculiar characters by which they are distinguished from other substances. characters are founded on certain properties, which, it must be confessed, are not accurately distinctive of their true nature. All such substances, however, as possess several of the four following properties, are considered as salme: f. A strong tendency to combination, or a very strong alimity of composition; 2. A greater or less degree of sapidity; 3. A greater or less degree of solubility in water; 4. Perfect incombustibility. SALIN'S. See Saline.

SALINUS. See Saline.

SALINUA. See Falerana celtica.

SALIVA (So called, a salino supore, from its salt taste, or from onabas, spittle.) The fluid which is secreted by the salivary glands into the cavity of the mouth. The secretory organ is composed of three pair of salivary glands. I. The parartal glands, which evacuate their saliva by means of the Secondar duct, belong the oxidate does make in the input jaw. 2. the man dear means of the upper jaw. 2. The submarillary glands, which pour out their saliva through the Warthonian ducts on each side of the frenatum of the tongue by a narrow osculum. 3. The sublingual glands, situated between the internal surface of the maxilla and the tongue, which pour out their saliva through numerous Recinian ducts at the apex of the tongue

apex of the tongue.

The saltsa in the cavity of the month has mixed with it, I. The mucus of the month, which exhales from the labial and genal glands. 2. The roscid vapour, from the whole surface of the cavity of the month. The saltva is continually swallowed with or without masticated food, and some is also spit out. It has no colour nor smell; it is tasteless, although it contains a little salt, to which the nerves of the tongue are accusationed. tomed. Its specific gracity is somewhat greater than water. Its consistence is rather plastic and spumous, from the entangled atmospheric air. The quantity of twelve pounds is supposed to be secreted in twelve During mastication and speaking, the secretion is augmented, from the mechanical pressure of the nuscles upon the salivary glands. Those who are hingary screte a great quantity, from the sight of agreeable food. It is imperfectly dissolved by water; somewhat coagulated by alkohol; and congealed with more difficulty than water. It is inspissated by a small dose, and dissolved in a large dose, of mineral acids. It is also soluble in carbonated alkali. Caustic alkali and quick-lime extract volatile alkali from saliva. It cor rodes copper and iron; and precipitates silver and lead from containing muriatic acid. It assists the spirituous fermentation of tarmaceous substances; hence, barbarousnations prepare an inebriating drink from the chewed roots of the Jatropha manchot and Piper methesticum. It possesses an antiseptic virtue, according to the ex perments of the celebrated Pringle. It easily becomes putrid in warm air, and gives off volatile alkali.

Constituent Principles. Saliva appears to consist, in a healthy state of the body, of water, which consti-tutes at least four-fifths of its bulk, mucilage, albumen, muriate of soda, phosphate of lime, and phospha e of ammonia.

The use of the saliva is, 1. It augments the taste of the the food, by evolution of sapid matter. 2. During mastication it fixes with, dissolves, and resolves into its principles, the food; and changes it into a pullaceous mass, fit to be swallowed: hence it commences chymication. 3. It moderates thirst, by moistening the cavity of the mouth and fauces.

Of or belonging to the saliva.

SALIVAL DUCTS. The excretory ducts of the salival That of the parotid gland is called the Stenonian duct; those of the submaxillary glands, the Warthonian ducts; and those of the sublingual, the Rivi nian ducts.

SALIVAL GLANDS. Those glands which secrete the saliva are so termed. See Saliva.
SALIVA'NS. (From saliva, spittle.) That which

excites salivation.

SALIVA RIA. (From saliva, the spittle so called because it excites a discharge of saliva.) See Anthomis

SALIVARIS HERBA. See Anthemis pyrcthrum. SALIVA'TIO. An increased secretion of saliva.

SALIVA 110. All increased secretarion of sarva. See Ptypalismus.

SALIX. (From sala, Heb.) 1. The name of a genus of plants in the Limmean system. Class, Diazia; Order, Dianatria. The willow.

2. The pharmacoponal name of Salix. See Salix

fragilis.

SALIX ALBA. See Salix fragilis.

SALIX CAPREA. The systematic name of a species of willow, the bark of the branches of which possess the same virtues with that of the fragilis. See Salex

fragilis.

Sally Fragilis. The systematic name of the common crack willow. Sally. The bank of the branches of this species manifests a considerable degree of bitterness to the taste, and is very adstringent. It is re-commended as a good substitute for Peruvian bark, and is said to cure intermittents and other diseases requiring tonic and adstringent remedies. Not only the bark of this species of salix, but those also of several park of this species of salts, but those also of several others, possess similar qualities, particularly of the Salex alba and Salex pentandren, both of which are recommended in the foreign pharmacopecias. But Dr. Woodville is of opinion that the bark of the Salix tri-andria is more effectual than that of any other of this genus; at least its sensible qualities give it a decided preference. The trials Dr. Cullen made were with the the Salix pentandria, taken from its branches. the third of an inch diameter, and of four or five years growth. Nevertheless, he adds, in intermittent fevers, Bergius always failed with this buck. Sality pentanenta. The bark of the branches of this species of willow possesses the same virtues as

that of the fragilis. See Sales fragiles.

Sales vitteens. The back of the branches of this species of willow may be substituted for the fragilis.

See Salis fragilis
SALMO. The name of a genus of fishes of the or

der Abdominales. The salmon.

Salmo Alpinus. The red charr. This beautiful and delicate little fish, and the Polmo carpre, or git charr, are found in our takes of Westmereland, in Wales, and Scotland. They are very rich, and hard of digestion.

SALMO EPERLANUS. The smelt. A beautiful little fish, found in great abundance in the Thames and river Dee, and in the European seas, between November and

SALMO FARIO. The common fresh-water trout, the

flesh of which is very delicate and rich.

Salmo Lacustrus. The lake front.
Salmo Salar. The systematic name of the common salmon. This fish is considered as one of the greatest delicacies. It is rich, and of difficult digestion to weak stomachs, and with some, whose stomachs are not particularly feeble, it uniformly disagrees. The pickled, salted, and smoked though much eaten, are only fitted for the very strong and active.

SALMO SALMULUS. The samlet: the least of the British species of the salmo genus. It is found in the

British species of the same genus. It is found in the river Wye, and up the Severia.

Same Thymalla's. The graling salmon, which is somewhat like our trout. It inhabits the rivers of Derbyshire, and some of the morth, and near Christ-church in Hampshire. It is much estremed for the declined in Hampshire. It is much estremed for the declined in the same provided in flavour; and is considered as in the highest season in flavour; and to the state of the sal-the depth of winter.

SALMO TRUTTA. The systematic name of the sal-

mon trout, or bill trout.

SALMON. See Salmo.

SALPINGO. (From Σαλπιν ), buccina, a trumpet.)

SALIVAL. (Salivalis; from saliva, the splttle.) | Names compounded of this word belong to the palate, and are connected with the Eustachian tube.

Salpingo-pharyngers. This muscle is composed

of a few fibres of the palatopharyngeus, which it sists in dilating the mouth of the Eustachian tube.

Salpingo staphilinus. See Levator palati. Salpingo staphilinus internus. See Levator

SALSAFY. See Tragopogon pratense. SALSO'LA. (So called from its saline properties; SALSO LA. (So called from the salar perhaps the English word saltwort, most of the species affording the fossile alkali.) The name of a genus of plants in the Linnean system Class, Pentandria; Order, Digunia.

SALSOLA KALL Kali spinosum cochleatum; Tra-gus, sive Tragum Multhioli. Snail-seeded glass-wort or salt-wort. The systematic name of a plant

wort or salt-wort. The systematic name or a many which affords the mineral alkalt. See Soda. Salsola sativa. The systematic name of a plant, which attords the mineral alkali. See Soda. Salsola soda. The systematic name of a plant

which affords mineral alkali. See Soda.
SALT. This term has been usually employed to denote a compound, in definite proportions, of acid matter, with an alkali, earth, or metallic oxide. When the proportions of the constituents are so adjusted, that the resulting substance does not affect the colour of infusion of fitnus, or red cabbage, it is then called a neutral salt. When the predominance of acid is evinced by the reddening of these infusions, the salt is evaced by the readening of mess finitions, he said said to be aciditious, and the prefix, super, or b, is used to indicate this excess of acid. If, on the contrary, the acid matter appears to be in defect, or short of the quantity necessary for neutralizing the alkalinity of the base, the sail is then said to be with excess of base, and the prefix sub is attached to its name. The discoveries of Sir H. Davy have, however, taught chemists to modify their opinions concerning saline constitution, many bodies, such as culinary salt, and muriate of lune, to which the appellation of salt cannot be refused, have not been proved to contain either acid or afkaline matter; but must, according to the strict logic of chemistry, be regarded as compounds of chloring with metals.

This is distinguished by its sour taste Salt, acid

Salt, acid. This is distinguished by his sour taste when diluted with walter. See Acid.
Salt, alkaline. Possesses a urinous, burning, and caustic laste, turns the sympol violets to a green, has a strong affinity for acids, dissolves animal substances, unites readily with water, combines with oils and fat, and renders them muscible with water, dissolves sulphur, and is crystallizable. See . Ilkali. Salt, ammoniacal, fixed. Muriate of lime.

Salt, bitter purging. Sulphnie of magnesia. Salt, cathartic. See Magnesia sulphas, and Sode sulphus.

Sull, common. See Sode murias.

Salt, digestive. Acetate of potassa

Salt, digrestive. Acetate of potassa.
Salt, directic. Acetate of potassa.
Salt, Febrifuge, of Sylvius. Muriate of potassa.
Salt, febrifuge, of Sylvius. Muriate of potassa.
Salt, fusible. Phosphate of ammonia.
Salt, fusible, of urine. Triple phosphate of soda and ammonia.

Salt, microcosmic. Triple phosphate of soda and

Salt, nitrous ammoniceal. Nitrate of ammonia.

Salt, neutral. Secondary salt. Under the name of neutral or secondary salts are comprehended such materials. ters as are composed of two primitive saline substances combined together in a certain proportion. These salts are called neutral, because they do not possess the characters of primitive salts; that is to say, they are neither acid nor alkaline: such as Epsom salts, nitre, &c. But in many secondary salts the qualities of one ingredient predominate; as tartar, or supertartrate of po-tassa, has an excess of acid; borax, or subborate of soda, an excess of base. The former are termed acisoda, an excess of base. The former are te dutous, the latter subsalkatine salts. SALT-PETRE. See Mitre. Salt of amber. Succinic acid. Salt of hencoin. Benzoic acid. Salt of coleothar. Sulphate of iron. Salt of kennes. Superoxylate of potassa. Salt of saltern. Accepte of lead.

Salt of Saturn. Acctate of lead. Salt of Scidlitz. Sulphate of maguesia.

Salt of sorrel. Superoxylate of potassa Salt, Rochelle. See Soda tartarizata. Salt, sea. See Soda murias See Firm sulphas. Salt of steel. Salt, polychrest. Sulphate of potassa. See Neutral salt. Salt, secondary. Salt, sudative. Boracic acid. Salt, spirit of. Muriatic acid. Salt of ritriol. Puritied sulphate of zine

Salt of wesdom.

Salt, primitive. Simple salt. Under this order is comprehended those salts which were tornierly thought to be simple or primitive, and which are occasionally called simple salts. The accurate experiments of the concerning saiss. The artifact experiments of con-moderns have proved that these are for the most part compounded; but the term is retained with greater propriety when it is observed, that these saits composed, when united, salts which are termed secondary. These salts are never met with perfectly pure in nature, but require artificial processes to render them so. This order is divided into three genera, comprehending salme terrestrial substances, alkalies, and acids.

See Salsola hali.

SALVATE'LLA. (From salus, health, because the opening of this vein was formerly thought to be of singular use in inelancholy.) This year runs along the little finger, unites upon the back of the fraud with the cephalic of the thumb, and empires its blood into the internal and external cubical veins.

SA'LVIA. (A salvendo.) 1. The name of a genus of plants in the Laumann system. Class, Prandra :

Order, Monogunto Sage.
2. The pharmacoperal name of the common sage See Salvia officinalis Salvia HORDANSIS MINOR

The small sage, or sage of virtue. A variety of the officinal sage, possessing similar virtues.

SALVIA OFFICINALIS. The systematic name of the garden sage. Elelisplantos. Salven files lanceolato weatrs integris creandarts, forebus spicaris, calgrous-acutts, of lannens. In ancient times sage was cele-brated as a remedy of great cheave, as would appear from the following lines of the school of Salemuni

" Cur moratur homo, our salvet creseit in horto! Contra rem mortes, non est m dicamen en hortes! Salvia salvatrix, natura conciliatrix Salvia cum ruta faciant tibi pon ala tata."

But at present it is not considered as an article of much importance. It has a fragrant, strong smell; and a warm, lutterish, aromatic taste, like other plants con taining an essential oil. in resisting the putrefaction of animal substances, and is in frequent use among the Chinese as a tonic, in the form of tea, in debility of the stomach and nervous system.

SALVIA SCLAREA. The systematic name of the garden clary, called hormanom in the pharmacoperas.
Sclarea hispanica. The leaves and seeds are recommended as corroborants and antispasmodics, particularly in leucorrhoras and hysterical weaknesses. have a bitterish, warm taste, and a strong smell of the aromatic kind. The seeds are infused in white wine, and imitate muscadel.

SAMARA. (The name, according to Pliny, of the fruit of the elm ) 1. The name of a genus of plants in the Linnaan system. Class, Tetrandria; Order, Mo-

nogynia.

A species of capsule of a compressed form, and dry coriaceous texture, with one or two cells never bursting, but falling off entire, and dilated into a kind oursing our raining our entire, and direct into a kind of wing at the summit or sides. In Frozinaus, it goes from the summit of the seed: in Acer and Batala, from the side: in Ulmus campestris, it goes all round. SAMBUCUS. (From salueca, Hebs a musical instrument formerly made of this tree.) Eider.

1. The name of a genus of plants in the Linuxan

system. Class, Pentandria; Order, Triggma.

2. The pharmacoporial name of the elder tree.

Sambueus nigra.

SAMBUCUS EBULUS. The systematic name of the dwarf-elder. Ebulus; Chamwacte; Sambucus humi uwart euter. Ebatus; Chambauch; Sambiaus kauar lis; Sambucus herbacea. Dwarf elder, or dane-wort. The root, interior bark, leaves, flowers, berries, and seeds of this herbaceous plant, Sambucus—cymis tri-fidis, stipules foliacees, caule herbaceo, of Lamaeus, have all beon administered medicing. have all been administered medicinally, in moderate

dones, as resolvents and deobstruents, and, in larger doses, as hydragogues. The plant is cluefly employed by the pant of this country, among whom it is in com-mon use as a purgative, but Dr. Cullen speaks of it as a violent remedy.

SAMBLELS NIGRA. The systematic name of the el-Sambueus vulgaris; Sambueus arborea, der tree Sambauns eutgarts; Sambaus ausorea; John Joyden lignam, Sambauss-eymis gunnque-periites folies permaitis, coale arbarco, of Linnaus, Lins indigenous plant has an impleasant narcotic smoot and some authors have reported its exhalations smoot and some authors have reported its exhalations to be so novious, as to render it unsafe to sleep under The parts of this tree that are proposed for medianal use in the pharmacoperas are the inner bark, the flowers, and the berries. The first has scarcely any smell, and very little laste; on instehey-ing, it impresses a degree of sweetness, which is followed by a very slight but durable acrimony, in which its powers seem to reside. From its cathattic property it is recommended as an effectual hydragogue by Sydenham and Boerhaave: the tormer directs three handfuls of it to be boiled in a quart of unik and water, till only a pint remains, of which one half is to be taken night and morning, and repeated for several days; it usually operates both upwards and downwards, and upon the evacuation it produces, its utility depends. Boerhaave exactation if produces, is many topeness. Document gave its expresser pure in doses from a drachin to half an onnce. In smaller doses it is said to be a useful aperient and deob-truent in various chronic disorders. The flowers have an agreeable flavour; and minisons of them, when feesh, are gently laxative and aperient. When dry, they are said to promote chiefly the cuticular excretion, and to be particularly serviceable in erysipelatous and emptive disorders. Externally they are used in fomentations, &c. and in the London pharma-coposa are directed in the form of an outment. The berries in taste are somewhat sweetish, and not unperness in taste are conservate vicetasis and not un-pleasant, on expression they yield a fine purple juice, which provide auseful apericul and resolvent in sun-different diseases, gently loosening the helly, and promoting the name and perspiration. Samphere. See Crithenum maritemum.

Sampacies. See Thymus mastichina.

Sampacients. See Thymus mastichina.

Sampacients. (From gaw, to preserve, and \(\psi\_v \chi\tau\_t\).

the mind; because of its cordial qualities.)

SANATIVE. (From sano, to cure.) That which heats diseases

heats discusses.

Savert inversal heats. See Erysipelus.

Sanctionus, was born in 1561, at
Capo d'Istria. He studied medicine at Padua, where
he took his degree, and then settled at Venuce, and
practised with considerable success. At the age of
lifty, however, he was appointed professor of the theory of medicine at Padua; in which office he distinguished limiselt for thirteen years. He was then allowed to retire on his salary, finding his health impaired by the fatigue of the visits, which he was fremently obliged to make in his professional capacity, to Venice, where he passed the remainder of his life in great reputation. On his death, in 1636, a statue of marble was raised to his memory; and an annual oration was instituted by the College of Physicians, to whom he had be queathed an animity, in commemora-tion of his benevolence. Sanctorius first called the attention of physicians to the cutaneous and pulmonary transpiration, which he proved to exceed the other excretions considerably in weight; and he maintained that this function must have a material influence on the system, and was deserving of great consideration in the treatment of diseases. There is, no doubt, much truth, in this general observation; but in its application to practice, he appears to have gone to an extration to practice, he appears to have gone to an extra-vagant length, and to have continued much to pro-long the reputation of the humoral pathology. His treatise, entitled "Ars de Statica Medicina," was first published in 1614, and passed through more than twenty editions, including translations, with various commentairies: it is written in an elegant and per-spire outs Latin style. How as also author of a Method control of the property of the property of the property of the pro-perty of the property of the property of the property of the pro-trol of the property of the property of the pro-trol of the property of the property of the pro-trol of the property of the property of the pro-perty of the property of the property of the pro-trol of the property of the pro-trol of the property of the pro-trol of the property of the property of the pro-trol of the property of the property of the pro-trol of the property of the property of the pro-trol of the property of the property of the pro-trol of the property of the property of the pro-trol of the property of the property of the pro-trol of the property of the property of the pro-trol of the property of the property of the pro-trol of the property of the property of the pro-trol of the property of the pro-trol of the property of the property of the pro-trol of the protrol of the protrol of the pro-trol of the protrol of the protrol of the pro-trol of the protrol of the protrol of the protrol of the pro-trol of the protrol of the protrol of the protrol of the pro-trol of the protrol of the protrol of the protrol of the pro-trol of the protrol of the protrol of the protrol of the pro-trol of the protrol of the protrol of the protrol of the pro-trol of the protrol of the protrol of the pro-trol of the protrol of the protrol of the protrol of the protrol of the pro-trol of the protrol of the pro-trol of the protrol of the protrol of the protrol of the protrol of the of avoiding Errors in Medicine, to which was after ward added an essay 6 De Inventione Remediorum;" and of Commentanes on some of the ancient physicians. Besides the statical chair, by which he con-trived to determine the weight of the Ingesta and Egesta, he invented an instrument for measuring the force of the pulse, and several others for surgical use;

and he was the first who attempted to determine the of a pale white colour, often with a yellowish tinge, temperature of the body by a thermometer, of which, and, being destitute of taste or odour, it is superseded

indeed, he is considered as the inventor.

SANCTUM SEMEN. The worm-seed, nicum

SA NCTUS. Holy. A term formerly applied to diseases, herbs, &c. See Chorca, Carduus benedic-

SANDALIFORMIS. Sandal or slipper-like. Applied to the nectary of the Cypripedium calceolus.

SANDARA'CHA. (From saghad narak, Arabian.)

1. A gummy resin.
2. A sort of arsenic.

2. A sort of arsenic.

SANDARACHA ARABUM. Arabian sandarach. This resinous juice appears to have been the produce of a large species of juniper-tree.

Sandbath. See Bath.

SANDERS. See Pterocarpus santalinus.

SANDERS. (An Arabian words) See Juniperus

(From sani duk, red, Arabian.) Cerusse

burnt till it becomes red.

SANGUIFICATION. (Sanguificatio; from sanguis, blood, and faceo, to make.) A natural function of the body, by which the chyle is changed into blood. The uses of sangunication are the generation of blood. which serves to fill the blood-vessels, to irritate and stimulate the heart and arteries, to generate or cause heat, to secrete the humours, and to excite the vital

SANGUNALIS. (From sanguis, blood: so named from its use in steaping bleedings.) The Polygonam acculare, or knot-grass, is sometimes so called. SANGUNARIA. (From sanguis, blood: so named from its use in stopping bleedings.) See Polygonam cairculared.

ANGUINED AND ANGUE AND ANGUE AND ANGUE AND ANGUE ANG guineous temperament, sanguineous apoplexy.

Sanguireous apoplesy. See Apoplesy.
Sanguireous apoplesy.
See Apoplesy.
Sanguireous Agentle fever, or such a one as by its dis-

to pure charges is supposed to purify the blood.

SANGUIS. (Sanguis, guants, m.) See Blood.

SANGUIS DRACONIS. See Calamus rotang.

SANGUIS HERCULIS. A name for the crooms.

SANGUISORBA. (Probably so named originally from the blood-red colour of its lowers, although the rooms. It has plant, being astriogent, the medicinal juices of this plant, being astringent, the medicinal properties it possesses of stopping hæmorrhages may be a better warrant for its name.) The name of a genus of plants in the Linnaean system. Class, Triandria, Order, Monogunia.

SANGLISORBA OFFICINALIS. The systematic name O'the Indian pimpule, which was formerly much esteemed as an astringent, but is not new in use.

SANGUSE GA. (From sungues, blood, and sugo, to suck.) The leech or blood sucker. See Leech.

SANICLE. See Sanicula.
Sanicle. Yorkshire. See Pinguicula.
SANICULA. (From sano, to heal: so called from its virtues in healing.)

The name of a genus of plants in the Linnwan em. Class, Pentandria; Order, Digunia. The pharmacoperal name of sanicle.

2. The phintheopean and of same all valgaris.
Sanice La Edorge-Essis. See Pragueula valgaris.
Sanice La Edorge-T. The systematic name of the
Samele. Caentlata: Dukeatheon; Symphytum pe-traum; Sanicala mas: Diapensia cariusa. This herb was formerly recommended as a mild adstringent, and is supposed to have received its name from its sa native power. Its sensible qualities are a bitterish and somewhat austere taste, followed by an actimony which chiefly affects the throat. It is only in use in the present day among the country people.

SANICULA MAS. See Sanicula curupea. SA NIES. Ichor. This term is sometimes applied to a thin, limpid, and greenish discharge: and at other

to a turn, impin, and precents usernage, and a constitutes to a threk and bloody kind of pus.

SANTALUM. (From randal, Arabian.) The name of a genus of plants in the Linnaran system.

by the santalum citrinum, which is of a brownish yellow colour, of a bitterish aromatic taste, and of pleasant smell, approaching to that of the rose. Both kinds are brought from the East Indies in billets, consisting of large thick pieces, which, according to Rumphius, are sometimes taken from the same, and some-times from different trees. For though the white and vellow saunders are the wood of the same species of tree, yet the latter, which forms the central part of the tree, is not always to be found in sufficient quantity to repay the trouble and expense of procuring it, especially, unless the trees be old; while the white, which is the exterior part of the wood, is always more abun-

dant, and is consequently much cheaper.

Yellow saunders, distilled with water, yields a fragrant essential oil, which thickens in the cold into the grant essential on, which thereas in the consistence of a balsam, approaching in smell to ambergris, or a mixture of ambergris and roses; the remaining decoction, inspissated to the consistence remaining decocition, inspissated to the consistence of an extract, is bitterish, and slightly pungent. Rectified spirit extracts, by digestion, considerably more than water; the colour of the tincture is arein yellow. The distilled spirit is slightly impregnated with the havour of the wood; the remaining brownish extract has a weak smolt, and a moderate balsamic pungency. The wood is valued highly on account of its fragrance; hence the Chinese are said to funnigate their clothes with it, and to burn it in their temples in honour of their gods. Though still retained in the Materia Medica, it cannot be thought to possess any considerable share of medicinal power. Hoffman considers its virtues as similar to those of ambergris; and some others have esteemed it in the character of a corroborant and restorative.
["The sandal-wood, which is found on some of the

islands of the South Sea, has been a great article of com-merce for the Chinese market. The following extract of a letter from Coles Fanning & Co. to Dr. Mitchill gives an account of the trade and employment of this wood as

a perfume.
"In the month of August, 1806, we despatched the ship Hope, Capt. Brumley, from New-York, on a voyage to the Fejee islands, to procure a cargo of Sandal wood, for the Canton market. The Hope having succeeded at the island of Toconroba, in procuring a full cargo for herself, and in part freighting an English brig that she met with at said island, arrived in No vember 1807, at Canton, where both cargoes were sold at about 25 cents per pound. While at the Fejee islands the Captain of the Hope contracted and paid in part to the chief of the island for about 270 tons more of sandal-wood, (this being about the whole quantity of good wood remaining on the islands) to be taken away in a certain time. In order therefore to seize so profitable a speculation while there were so few to partrepate in it, we built and sent the ship Tonquin, commanded by E. Fanning, in May, 1807, to meet the Hope at Canton; but the Hope not having arrived in time for Capt. Panning to fulfil our original intentions, the season was so far wasted as to compel him to load the Tonquin for New-York, and he met the Hope in the mouth of the Tigris or (Canton river). Both vessels will, therefore, return to the United States under no expectations that the trespasses of European nations would compel our government to inhibit their depar-ture again on said voyage. Being thus situated we have taken the liberty to address you for your advice, whether, under the embargo law, or the supplements, the Executive will not have sufficient authority to permit us to proceed immediately with a ship sufficient to bring the above quantity of wood, and by that means save to ourselves and our country at least \$130,000, which will probably, if such permission is re-fused, fall into English lands: for you will please to observe, that there was in the first place but a small patchof the wood on one of the islands, that the Hope left four English vessels there, selecting from the refuse a little of very inferior quality, and in expectation too that some accident would prevent our ship from returning within the limited time, which would release the chief from his engagement, and leave him at liberty Class, Tetrandria; Order, Monogynia. Saunders, Santalem albem. The systematic name of the them. From the knowledge Capt. Brunnley to yellow saunders. Santalum patroners. Santalum patroners. Santalum patroners. White saunders wood is his engagement for the time limited as we would on the

chief of the most civilized nation. You will no doubt recollect that the Chinese have long considered sandalwood as possessing religious properties; they are ac customed to burn it on their altars as incense; their god Josh is supposed always out of humour, unless his nose is regaled with its delightful effluvia. We have enclosed a small piece of the wood, that you may have an opportunity of judging how far a Pagan god's taste may be deemed exquisite. The Hope is the first vessel, to the best of our knowledge, that ever proceeded from the United States on this voyage, and on her return, we presume she will pay about \$40,000 into the Treasury for duties from the proceeds of the wood, which originally cost only about nine hundred dollars."—Med.

SANTALUM CITRINUM. See Santalum album.
SANTALUM PALLIDEM. See Santalum album.
SANTALUM RUBRUM. Red saunders. See Pierocar-

SANTOLINA. SANTOLUNA. (From santalum, saunders; because it smells like the saunders-wood.) See Artemisia

SANTOLINA CHAMÆ-CYPARISSUS. The systematic

name of the lavender cotton.

Santonicum. (From Santonio, its native place.)

See Artemisia santonica.

SAPHENA. (From σαφης, visible.) From saphena.
The large vein of the leg, which ascends along the little toe over the external ankle, and evacuates part of the blood from the foot into the popliteal vem-

SAPIENTIÆ DENTES. (Saprentra, wisdom, tion: so called because they appear when the person is

supposed to be at years of discretion.) See Teeth. SAPINDUS. (That is, Sapo Indus, Indian soap the rind of the fruit serving instead of soap to cleanse linen, but not without hazard of injury to the texture of the cloth.) The name of a genus of plants. Class, Octandria; Order, Digynia. The soap-tree.

finen, but not went of a genus of possible of the cloth.) The name of a genus of possible of Cetandria; Order, Digynia. The soap-tree.

Sapindes saponalia. The systematic name of the plant which affords soap interest appropriate nucular;

Possa bermudensis. Soap-berries. A spherical fruit, the contical part of which is Bacca bermudensis. Soap-berries. A spherical fruit, about the size of a cherry, the cortical part of which is vellow, alossy, and yellow, glossy, and so transparent as to show the sphe rical black nut which rattles within, and which includes a white kernel. The tree grows in Jamaica. It is said that the cortical part of this fruit has a bitter taste, and no smell; that it raises a soapy froth with water, and has similar effects with soap in washing; that it is a medicine of singular and specific virtue in chlorosis.

They are not known in the shops of this commry.

SAPO. (Sapo, nis. m.) Soap. A compound, in definite proportions, of certain principles in oils, fats, or resin, with a salifiable base. When this base is potassa or soda, the compound is used as a detergent in wash-When an alkaline earth, or oxide of common metal, as litharge, is the salifiable base, the compound is insoluble in water. The first of these combinations is scarcely applied to any use, if we ex cept that of linseed oil with lime-water, sometimes prescribed as a liniment against burns; and the last is known only in surgery as the basts of certain plasters. Concerning the chemical constitution of soaps and saponification, no exact ideas were entertained prior to Chevreuil's researches.

Fats are compounds of a solid and a liquid substance; the former called stearing, the latter resembling vegeta ble oil, and therefore called elasne. When fat is treated with a hot ley of potassa or soda, the constituents react on one another, so as to generate the solid pearly matter margaric acid, and the fluid matter oleic acid, both of which enter into a species of saline combination with the alkali; while the third matter that is pro-duced, the sweet principle, remains free. We must therefore regard our common soap as a mixture of an alkaline margarate and olente, in proportions determined by the relative proportions of the two acids producible from the peculiar species of fat. It is probable, on the other hand, that the soap formed from vegetable oil is chiefly an *oleate*. No chemical researches have hitherto been made known, on the compounds of resm with alkalies, though these constitute the brown soaps so extensively manufactured in this country. All oils or fats do not possess in an equal degree the property of saponification. Those which saponify best, are,

1. Oil of olives, and of sweet almonds.

2. Animal oils; as hog's lard, tallow, butter, and horse-oil

3. Oil of colza, or rape seed oil.

4. Oil of beech mast and poppy-seed, when mixed with olive oil or tallow

The several lish oils, mingled like the preceding.

6. Hempseed-oil.

Nut oil and biseed oil.

Palm oil.

9 Rosin

In general, the only soaps employed in commerce, are those of olive oil, tallow, land, palm-oil, and nosin. A species of soap can also be formed by the union of berswax with alkah; but this has no detergent appli cation, being used only for painting in encausto.

The specific gravity of soap is in general greater than that of water. Its faste is family alkaline. jected to heat it speedily fuses, swells up, and is then decomposed. Exposed to the air in thin slices, it soon becomes dry: but the whole combined water does not leave it, even by careful desiccation on a sand bath.

Soap is much more soluble in hot than in cold water. This solution is instantly disturbed by the greater min This solution is instantly discussed by the gleady haber of acids, which seizing the alkali, either separate the farty principles, or time with them into an acide-soapy emulsion. The solution is likewise decomposed soapy emulsion. The solution is likewise decomposed by almost all the earthy and metallic salts, which give birth to insoluble compounds of the oleic and margaric acids, with the salitiable bases.

Soap is soluble in alkohol, and in large quantity by the aid of heat. When boiling alkohol is saturated with soap, the liquid, on cooling, forms a consistent transparent mass of a yellow colour. When this mass is dried, it still retains its transparency, provided the soap be a compound of tallow and soda; and in this state it is sold by the perfumers in this country

Good soap possesses the property of removing from linen and cloth the greater part of fatty substances which may have been applied to them.

The medicinal soap, sape amygdolenus, is made with oil of sweet almonds, and half its weight of caustic addati. Common or soft soap, sape moths, is made of potassa and oil, or fallow. Spanish, or Castile soap, potassa and oil, or tallow. Spanish, or Castile soap, sapo durus, of oil of olives and soda, or barilla. Black soap is a composition of train oil and an alkali; green soap of hemp, linseed, or rape oil, with an alkaff. The white Spanish soap, being made of the finer kinds of olive oil, is the best, and therefore preferred for inlernal use. Soap was imperfectly known to the ancients. It is mentioned by Pliny as made of fat and ashes, and as an invention of the Gauls. Aretaeus and others inform us, that the Greeks obtained their knowledge of its medical use from the Romans. Its virtues, according to Bergius, are detergent, resolvent, and aperient, and its use recommended in jaundice, gout, calculous complaints, and obstruction of the viscera. The efficacy of soap, in the first of these discusses, was experienced by Sylvius, and since recommended very generally by various authors who have written on this complaint; and it has also been thought of use in sup-ulying the place of bile in the prime via. The utility plying the place of bile in the prime via. The utility of this medicine in icterical cases was inferred chiefly from its supposed power of dissolving biliary concretions; but this medicine has lost much of its reputation in jaundice, since it is now known, that gall-stones have been found in many after death who had been daily taking soap for several months, and even years. Of its good effects in urinary calculous affections, we have the testimonies of several, especially when dis solved in lime water, by which its efficacy is considera bly increased; for it thus becomes a powerful solvent of mucus, which an ingenious modern author supposes to be the chief agent in the formation of calculi; it is, however, only in the micipient state of the disease that however, only in the incipient state of the disease that these remedies promise effectual benefit, though they generally about the more violent symptoms where they cannot remove the cause. With Boerhaave, soap was a general medicine; for as he attributed most complaints to viscidity of the fluids, he, and most of the Boerhaavian school, prescribed it, in conjunction with different resmons and other substances, in gout, their mattern, and various viscenal complaints. Soap is also extend the conducted as a resolvent, and gives name to externally employed as a resolvent, and gives name to several officinal preparations.

[6] The biscory of personal cleanliness is very impor-

tant, and has been lamentably neglected. Pliny, in his Natural History, treating of strumous swellings, makes montion of Soupe Prodet est supp. Gallarum has raventum retribundes capalles. Fit ex sebo et course. Optimus ex fagino et caprino : duobis modis, spissus | ac liquidus: uterque apud Germanus majore in usu viris quam faminis. "Soap is good for them. This was invented in Gaul, and used for reddening the hair. It is made of fat and askes. The best is pre-pared from the askes of the beach-tree and the suct of pureu from the asses of the obegan-tree and the suct of the yout. There are two sorts, the theck and the tiquid. Among the Germans, both knuts are more used by the men than by the women." Priscian writes of "Sapo Gailicus," or Gudesh soap; and Martial of "Spuma Batava," or Dutch lather, and "Spuma Caustica," or Caustic foam. The German soap was reckned the best and cleanest. The Gaulish was next in quality

and value.

It is clear, and President Giognath is of the same opinion, (in his history of the origin of laws, &c.) that the ancient Hebrews, Greeks, and Romans knew nothing of soap. These nations used to supply the want of it by various other means. From the barbarous people of the north, the knowledge and employment of soap passed to the Romans; and from the Romans was made known to the Greeks. A very remarkable

fac

When the Romans first became acquainted with soap, they called it "Unguentum Cineris," or *Ointment of ashes*. So prevalent was the idea of its origin, that several writers have treated of it under the denomina-tion of "Cinis," or ASHES, itself. And those who con-sumed soap were in those days called "Cinerarii," or

Ashes users

After a while, however, this detergent ointment was distinguished among the Romans by the word "Sape." This term probably is of Gothic or Barbarian origin. Ams term probably soft coince or barbaran original Some of the Parthian and other nations bordering on the frontier provinces of the Roman Empire, distinguished their rulers or chiefs by the name "Sapore" or "Sapores." The good they derived from the Unguentum Cineris was so great and excellent, and it was so powerful in overcoming bodily inconveniences, and so conducive to personal comfort, that they called this preserver of private health, by a name corresponding preserver or private nearth, by a name corresponding to, and derived from the soveregas who presided over their public safety. From Sapor, thus was derived Sapo; two terms significant of the powers which protected the political and the individual bodies of the people. The Romans adopted Sapo, and naturalized it to their language. From them the Greeks borrowed their  $\sigma u \pi w v$ . The French have derived their "savon" from the same source, and so have the English their

o soap."
But it's soap was so late an invention, and learned from the rougher nations of the north of Europe at so advanced a period of the history of their southern neighbours, howcomes it to pass the Hebrews were acquainted with it, as we read in the English version of the Bible, translated under the auspices of king James? The term 'soap' does indeed occur there in Jeremonly, chap, ii, v. 22, and in Malachi, chap, iii, v. 2. Yet there can scarcely be entertained a doubt, that the translated version of their baying. translators were mistaken. This opinion of their having translators were mistaken. Insopinion of their daving misinterpreted the text is supported by the Latin vulgate version, which expresses the former of these passages by the words, "herbam borith," and the latter by "herba fullonum." What, now, is the plant Bortil, and what is the Fuller's herb? Calmet, in his Dictionary of the Bible, sataes, that it is the Kali or salme vegetable, of whose ashes "ley and soap are made." Graguet thinks it was salt wort, a plant very common in Syria, Judea, Egypt, and Arabia; which, if burned to ashes, and the ashes mingled with water, formed a strong ley tit for cleansing and whitening cloths, and

doubless they were right.

Notwithstanding all this authority, Beza evidently missed the true meaning of the original, which he ex-presses in both the before-mentioned texts, by the substantive "smegma." But John Jacob Schmidt, in his Statilly Sta through fire. Bortit would thus seem to be the plant which, by the action of the fire, yielded Bor, that is, the detergent article of the washers and fullers. Or the two words might be used indifferently to signify the plant both before and after incineration. it may be inferred, the plant was a species of Salsola or Cilass wort, and that the saline residuum, after burning, was kelp or barilla; a material possessing qualities similar to the oriental natron or mineral alkali.

Similar to the oriental natron or mineral alkali. The same thing has been latterly called Soda, whence comes La Soude of the French, and the Suds or Alkaline lixivium of the English,"—Nov Tork Med. Repos. A.] Sapo terresurvinia. Starkey's soap.

B. kali preparati calidi, \(\frac{1}{2}\)j. Olef terebinth, \(\frac{2}{3}\)ij. The hot kali preparation is to have the oil of turpentine gradually blended with it, in a heated mortar. Indotent swellings were formerly rubbed with this application, and perhans some chronic affections of the

pheation, and perhaps some chronic affections of the joints might still be benefited by it.

SAPONA RIA. (From supo, soap: so called be cause its juice, like soap, cleans cloths.). 1. The name of a genus of plants in the Linnean system. Class, December 2 Order, Picconic.

Decandria; Order, Digynia.

2. The pharmacopæial name of the soap-wort. See Saponaria officinalis.

Saponaria operacies.

Saponaria Nucula. See Sapindus saponaria.

Saponaria opplication. The systematic name of the soap-wort, called also bruise-wort. Struktum; Lapania. Luchuis subjectifs; Ibiruma. The root Lanaria; Lychnis sylvestris; Ibiruma. The root of this plant, Saponaria—calycibus cylindricis, foliis of this plant, Suponar a—catycibus cytendricis, folius orato-lanceolatis, of Linneus, is employed medicin-ally; it has no peculiar smell; its taste is sweetish, glutinous, and somewhat bitter. On being chewed for some time, it is said to discover a degree of aerimony, which continues to affect the mouth for a considerable According to Neuman, two ounces of the root yielded eleven drachms of watery extract; but Cartheuyieudeu deven drachms of watery extract; but Cartheu-ser, from a like quantity, only obtained six drachins, and twenty-four grains. This extract manifested a sweetish taste, followed by an acrid quality. The spirituous extract is less in quality, but of a more pone-trating acrid taste. Decoctions of the root, on being sufficiently agitated, produces a saponaceous froth; a similar soapy quality is observable also in the extract, and still more manifestly in the leaves, insomuch that they have been used by the mendicant monks as a substitute for soap in washing of their clothes; and Bergius, who made several experiments with the saponaria, declares that it had all the effects of soap itself

From these peculiar qualities of the saponaria, there can be little doubt of its possessing a considerable share of medical efficacy, which Dr. Woodville says he could wish to find faithfully ascertained.

The discases for which the saponaria is recommend-ed, as syphilis, gout, theumatism, and jaunduce, are not, perhaps, the complaints in which its use is most availing; for a fancied resemblance of the roots of sapopularia with those of sarsapardia, seems to have led physicians to think them similar in their effects; and hence they have both been administered with the same intentions, particularly in fixed pains, and venereal atfections. Bergins says, "in arthrilide, cura mercuri-ale, &c. millum aptiorem potum novi." However, ac-cording to several writers, the most inveterate cases of syphilis were cured by a decoction of this plant, without the use of mercury.

Haller informs us that Boerhaave entertained a high opinion of its efficacy in jaundice and other visceral

SAPONULE. Saponulus. A combination of a vo-latile or essential oil with different bases; as saponule of ammonia, &c.
Sapota. (The West Indian name of several sorts

SAPOTA. (The West Indian name of several sorts of fruits of the plum kind.) See Aeras sapota. SAPPAN LIGNUM. See Homatoxylon compechianum. SAPPHIRE. Telesic of Haiy. Perfect corundum of Bournon. The oriental ruby and topaz are sapphires. Sapphire is a subspecies of rhomboidal corundum. It is one of the estremed precious stones, a sapphire of ten carats' weight being worth fifty guineas. Its colours are blue, red, and also gray, white, green, and vellow. It is found in blunt edged pieces, in and yellow. roundish pebbles, and crystallized after the diamond.

It is the hardest substance in nature.

Sapphirina aqua. (So called from its sapphire or blue colour.)

Aqua cupri ammoniati. Made by a soblue colour.) Aqua cupri ammoniati. Made by a so-lution of sal ammoniac in lime-water, standing in a

copper vessel.

Saraceus consound. See Solidago virga aurea SARATOGA. The name of a county in the State of New-York, in America, celebrated for its springs of mineral water, which are numerous throughout a circuit of several miles near the centre of that county. The ground throughout this circuit is, generally speaking, flat, and in two or three places is covered with ex-tensive sheets of limpid water, which are fed by streams that take their origin in the neighbouring moun-tains of granite and gneiss. The soil in which the springs rise is sandy, and rests upon a bed of compact limestone, or argillaceous slate, or gray wacke; and they are apparently more numerous where these specimens of the transition and secondary formation are ascertained to meet. There is more variety in the degree of mineral impregnation at two points, about seven miles distant from each other, where accommodation has been more liberally provided for visiters, and which have taken the names of Saratoga and Ballston Spa. The former of these seems to have been known to the Indians before the formation of European settlements, and was pointed out by them to Su William Johnson, in 1767. It was called in their language liam Johnson, in 1767. It was called in their language the Spring of Lafe, and is in temperature about 50° of Fabrenheit. Most of the American chemists have made the analysis of the Saratoga water an object of inquiry and publication, and though one or two or them differ as to the existence of some of the more to fling impregnations, they agree generally that it contains carbonic acid gas, muriate of soda, carbonate of soda, carbonate of lime, carbonate of iron, and carbonate of magnesia.

In two or three of the springs, there is, besides, sulphuretted hydrogen gas, and in one at least traces of silica and alumina. These incidental varieties give rise to slight differences in the medicinal effects of the springs; but, as a general rule for guiding strangers in their selection, it may be stated, that the more abundant the muriate of soda, and carbonatesof soda, lime, and magnesia, the more aperient and diuretic will be the water; while the greater the quantity of carbonic acid and of fron, in proportion to the former ingaedients, the more powerful will be its tonic effects.

The great superiority of these American mineral waters over every thing of the kind to be found in

Europe, consists,
1st, in their containing a greater quantity of carbo nic acid, or fixed air, by which they are capable of re taining in solution a much larger proportion of useful saline matter, of a particular character, than any Euro-

2dly, In their possessing more efficient purgative pro-perties than any of the springs of Europe, with the exception of Harrowgate, and perhaps Cheltenham, which are both not only destitute of the retreshing taste given by the carbonic acid, but contain (Harrowgate in par ticular) matters which render them to the palate in some degree offensive.

3dly, In containing such a combination of materials, in the most eligible form, as fit them to become at one a most refreshing beverage to all, and to those suffering from the diseases about to be mentioned in particular, a more perfect union of what is agreeable with that which is necessary and useful in the way of medicine. than any that has hitherto been provided, either by na

The diseases in which the Saratoga waters have been found to be productive of the last effects, are dyspepsia, entaneous diseases, scrotiolus affections, dropsy, chlorosis, and other affections peculiar to the formers are all the saratogates.

Groups, chlorous, and microalite and gravel.

SARCITES. (From σαρξ, flesh.) See Anasarce.

SA'RCIUM. (Diminutive of σαρξ, flesh.) A carancle, or small fleshy excrescence.

SARCOCETIE. (From σαι (, flesh, and κηλη, a tu-nour.) Hernia carnosa. This is a disease of the body of the testicle, and as the term implies, consists. in general, in such an alteration made in the structure of it, as produces a resemblance to a hard fleshy substance, instead of that fine, soft, vascular texture, of which it is, in a natural and healthy state, composed.

The ancient writers have made a great number of distinctions of the different kinds of this disease, ac cording to its different appearances, and according to the mildness, or malignity of the symptoms with which it may chance to be attended. Thus, the surcoccle, the hydro-surcoccle, the scirrhus, the cancer, the care ad nata ad testem, and the care adnata ad casa, which are really little more than descriptions of different states and circumstances of the same disease, are reckoned as so many different complaints, requiring a variety of treatment, and deriving their origin from a variety of different humours.

Every species of sarcocele consists primarily in an enlargement, induration, and obstruction of the vas-cular part of the testicle; but this alteration is, in different people, attended with such a variety of circum-stances, as to produce several different appearances, and to occasion the many distinctions which have been made

It the body of the testicle, though cularged, and indutated to some degree, he perfectly equal in its surface, vaid of pain, has no appearance of third in its times variot pain, has no appearance or man in a context vaginalis, and produces very little uneasiness, except what is occasioned by its mere weight, it is usually called a simple saccoccle, or an indolent sciribus; if, called a simple sattment, or an inomen sertimes; it, at the same ring that the tests is enlarged and hardened, there he a paipable accumulation of fluid in the vaginal coat, the disease has by many been named a kyaro sarroccle; if the lower part of the spermatic vesnguro sarroccie; it me ower parrot me spermane ves-sels, and the epiindy mus were enlarged, hard, and knotty, they supposed it to be a fungous, or morbid ac-cretion, and called it the curo admita ad rusu, if the testicle itself was unequal in its surface, but at the caro aduata ad testem: If it was tolerably equal, not very painful, nor frequently so, but at the same time hard and large, they gave it the appellation of an occult or benign cancer; if it was ulcerated, subject to fre-quent acute pain, to harmorrhage, &c. it was known by that of a malignant or confirmed cancer. ferent appearances, though distinguished by different titles, are really no more than so many stages (as it were) of the same kind of disease, and depend a great deal on several accidental circumstances, such as age, habit, manner of living, &c. It is true, that many peo-ple pass several years with this disease, under its most favourable appearances, and without encountering any of its worst; but, on the other hand, there are many, who, in a very short space of time, run through all its stages. They who are most conversant with it, know how very convertible its mildest symptoms are into its most dreadful ones, and how very short a space of time

often intervenes between the one and the other.

There is hardly any disease affecting the human body, which is subject to more variety than this is, both with regard to its first manner of appearance, and the

changes which it may undergo.

Sometimes the first appearance is a mere simple enlargement and induration of the body of the testicle; void of pain, without inequality of surface, and producing no uncasiness, or inconvenience, except what is occasioned by its mere weight. And some people are so fortunate to have it remain in this state for a very considerable length of time without visible or material alteration. On the other hand, it sometimes happens that very soon after its appearance in this mild manner, it suddenly becomes unequal and knotty, and is attended with very acute pains darting up to the loins and back, but still remaining entire, that is, not bursting through the integuments. Sometimes the fury of the disease brooks no restraint, but making its way through all the membranes which envelope the testicle, it either produces a large, foul, stinking, phagedenic ulcer, with hard edges, or it thrusts forth a painful gleeting fungus, subject to frequent hæmorrhage.

Sometimes an accumulation of water is made in the tunica vaginalis, producing that mixed appearance,

called the hudro sarcocal.

Sometimes there is no fluid at all in the cavity of the tunica vaginalis; but the body of the testicle uself is formed into cells, containing either a turbid kind of water, a bloody sanies, or a purulent fietid matter. Sometime, the disorder seems to be merely local, that is, confined to the testicle, not proceeding from a tainted habit, nor accompanied with diseased viscera, the patient having all the general appearances and circounstances of health, and deriving his local mischief from an external injury. At other times, a pallid, leaden countenance, indigestion, frequent nausea, colicky pains, sudden purgings, &c. sufficiently indicate a vitated liabit, and diseased viscera, which diseased viscera may also sometimes be discovered and felt.

The progress also which it makes from the testis up ward, toward the process, is very uncertain; the disease occupying the testicle only, without affecting the spermatic process, in some subjects, for a great length of time; while, in others, it totally spoils the testicle very soon, and almost as soon seizes on the spermatic

chord.

SARCOCOLLA. (From σαρξ, flesh, and κολλα, glue; because of its supposed power of gluing together wounds.) A spontaneous exudation from a tree of woulds.) A spontaneous extuation from a free of the fir kind, which grows in Persia, supposed to be similar to olibanum of frankincense. SARCOEPIPLOCETE. Enlarged testicle, with

rupture, containing omentum.

SARCO'LOGY. (Sarcologia; from σapč, flesh, and λογος, adscourse.) The doctrine of the muscles and

SARCO'MA. (Sarcoma, atis. n.; from sapt, flesh.)
Sarcosis; Porrus; Sarcophyia; Navos. A fleshy
excrescence. A genus of disease in the Class Locales, excrescence.

exerciscine. Agents of different management and Order Tumores, of Cullen.
SARCO MPHALL'S. (From σαρξ, flesh, and φφαλος, the navel.) A fleshy excrescence about the navel.
Sarcomyra. (From σαρξ, flesh, and φεω, to grow.)

A fleshy excrescence

A nestry exerces (From σαρξ, flesh, and συου, pus.) Applied to the purulent, fleshy discharge, which is thrown up in some stages of consumption.

SARCO'SIS. (From σαρξ, flesh.) 1. A fleshy tu-

mour.
2. The generation of flesh. SAROTICA. (From σαρέ, flesh.) Medicines which promote the generation of flesh in wounds.

SARDE. Sardoin. A variety of cornelian of a

deep blood-red colour.

ARDIASIS. (From σαρδωνιη, the sardonia, or herb.

which, being eaten, causes convulsive laughter.) See Sardonic laugh.

Sardonia, its native soil.)

kind of smallage.
SARDONIC LAUGH. (Risus sardonicus:

called from the herb sardonia, which being eaten is said to cause a deadly convulsive laughter). A kind A kind of convulsive laugh, or spasmodic grin. See Spasmus cynicus.

Sarbonicus risus. See Sardonic laugh.
SARDONYX. A variety of cornelian composed of layers of white and red.
SARMENTACEA. The name of a natural order

of Linnaus's Fragmenta; embracing the plants with

rivining or trailing stems.

SARMENT'OSUS. (From sarmentum, a twig, or trailing stalk.) Trailing. Applied to a creeping stem, barren of flowers, thrown out from the root for the

purpose of increase.

SARMENTUM. (Sarmen; from sarpio, to prune, lop, or cut off.) A twig, a runner.

SARSPARILLA. (Cliss word is of Spanish origin, signifying a red tree.) See Smilax sarsapacetta.

SARSAPARILLA GERMANICA. See Cures arenaria. SAR'TORIUS. (From sarter, a tailor; because tailors cross their legs with it.) Sartorius seu longis simus femoris, of Cowper; Ilio cresti tibial of Dumas This flat and slender muscle, which is the longest of the human body, and from an inch and a half to two inches in breadth, is situated immediately under the integuments, and extends obliquely from the upper and anterior part of the thigh, to the upper, anterior, and inner part of the tibia, being enclosed by a thin membraneous sheath, which is derived from the adjacent fascia lata. It arises, by a tendon of about half an inch in breadth, from the outer surface and inferior edge of the anterior superior spinous process of the itium, but soon becomes fleshy, and runs down a little way obliquely inwards, and then for some space upon the rectus, nearly in a straight direction, after which it passes obliquely over the vastus internus, and the lower part of the adductor longus, and then running down between the tendons of the adductor magnus, down between the tenions of the audicio magnator and the gracilis, is inserted, by a thin tenion, into the inner part of the tibra, near the inferior part of its tu-berosity, and for the space of an inch or two below it. This tendon sends off a thin aponeurosis, which is spread over the upper and posterior part of the leg. This muscle serves to bend the leg obliquely inwards, or to roll the thigh outwards, and at the same time to bring one leg across the other, on which account Spigelius first gave it the name of sartorius, or the 's muscle

stone; or, which is most probable, from the river Sas-

stone; or, which is most probable, from the river sus-safras, in America, on the banks of which it grows in abundance.) See Laurus sassafras.

SASSOLINE. Native boracic acid, found on the edges of hot springs near Sasso in Florence. It con-sists of boracic acid 86, ferruginous sulphate of man-ganese II, and sulphate of line 3.

SATELLITE. The veins which accompany the

brachial artery as far as the bend of the cubit, are so

SATIN SPAR. A species of fibrous limestone.
SATURANTIA. Medicines which neutralize the acid

in the stomach.

SATURATION. Saturatio. A term employed in pharmacy and chemistry to express the state of a body which has a power of dissolving another, to a certain extent only, in which it has effected that degree of so-lution. Some substances unite in all proportions. Such, for example, are acids in general, and some other salts with water; and many of the metals with each other. But there are likewise many substances which cannot be dissolved in a fluid, at a certain temperature, in any quantity beyond a certain proportion. Thus water will dissolve only about one-third of its weight of common salt, and, if more be added, it will remain solid. A fluid, which holds in solution as much of any substance as it can dissolve, is said to be saturated with it. But saturation with one substance does not deprive the fluid of its power of acting on and dissolving some other bodies, and in many cases it increases this power. For example, water saturated with salt will dissolve sugar; and water saturated with carbonic acid will dissolve iron, though without this addition its action on this metal is scarcely perceptible.

The word saturation is likewise used in another

sense by chemists: The union of two principles produces a body, the properties of which differ from those of its component parts, but resemble those of the predominating principle. When the principles are in such proportion that neither predominates, they are said to be saturated with each other; but if otherwise, the most predominant principle is said to be subsaturated or undersaturated, and the other supersaturated or over-

saturated.

SATUREI'A. (From satyri, the lustful satyrs; because it makes those who eat it lascivious. Blanch.)

1. The name of a genus of plants in the Linnaan system. Class, Didynamia; Order, Gymnosperma.

2. The pharmacopæial name of the summer savory.

Sattereta capitata. The systematic name of the ciliated savory. Thymus creticus. It possesses similar virtues to our thyme, but in a stronger degree.

Sattereta norteessis. The systematic name of

SATTREEA HORTENSIS. The systematic name of the summer savory. Satureia sativa; Culina sativa Pline; Thymbra. This low shrub is cultivated in our gardens for culinary purposes. It has a warm, aromatic, penetrating taste, and smells like thyme, but midler. It is an ingredient in most of the warm siews and words distince.

See Saturcia hortensis.

SATURNUS. (From the planet or heathen god, of nat name.) The chemical name of lead, that name.) The chemical name of lead, SATYRI'ASIS. (From σατύρος, a satyr; because

they are said to be greatly addicted to venery.) Satyriasmus; Prapismus; Salacetas; Brachina; Arascon. Excessive and violent desire for coition in men. A genus of disease in the Class Locales, and Order

Dysorcxia, of Cullen. SATY RION. (Fr SATYRION. (From σατυρος, an animal given to venery: so called because it was supposed to excite venery if only held in the hand.) See Orchis muscula.

SATYRIUM. See Orchis mascula.
Sauce alone. See Erusemum alluria.
SAUNDERS. See Santalum album.
Saunders, red. See Pitrocarpus.
SAUN KRAUT. Cabbage preserved in brine. An article of food common in Germany, like our pickled cabbage

cabbage.
SAUSSURITE. A hard mineral, placed by Jameson near Andalusite, of white and gray or green colour, found at the foot of Mount Rosa.
SAUVAGES, FRANCIS BOISSUER DE, was born at Alais, in Lower Languedoc, in 1706. He graduated at Montpelier when only 20, but still continued his studies, and four years after went for farther improvement to Paris. On his return to Montpelier he tailor's muscle.

8A'SSAFRAS. (Quasi saxifraga; from saxum, studies, and four years after went for farther images, to break; so called because provement to Paris. On his return to Montpeller had decortion of its wood was supposed good for the obtained a professorship in 1734; but his reputation 267.

for ingenuity of speculation is said to have obstructed his success in practice. In 1752 he was made professor of botany, having for twelve years before officiated as demonstrator of the plants in the botanic garden. His death occurred in 1767. He was a member of several death occurred in 1767. He was a member of several of the learned societies of Europe, and obtained his prizes given by many public bodies for the basic essays on given subjects. Among his earlier poloparinous was one, entitled "Nouveles Classes des Matadies," the outline of the system of Nosology, which has rendered his name thustrous, but which dat not appear in its complete form, till after an authorough latiour of thirty years had been bestowed upon 6. This work, reasoning in wagening any properties. consisting of five octavo volumes, contains at mimense body of information, indeed, almost every timing their known concerning the species of disease; but the whole is very loosely arranged. He had collected many new observations and descriptions, with a view to incorporate them in a second edition; which, however, he did not live to accomplish. These materials were used by Dr. Cramer after his death. Besides this valuable work, Sauvages was author of mimerous others on different subjects relating to medicine.

different subjects relating to medicine.
SAVIN See Janeperus sabina.
Savin ointment. See Ceratum sabina.
SAVINA, See Jumperus sabina.
SAVOLRY, See Jumperus sabina.
SAVOLRY, See Sadaucca.
SAXFFRAGA. (From saxium, a stone, and frango, to break; so called because it was supposed to be good against the stone in the bladder.) The name of a genus of plants in the Limmean system. Class, Decandria; Order, Digynia.
SAXIFRAGA ANDA. See Saxifraga granulata.
SAXIFRAGA ANDALGA. See Peneculanum.

SAMPRAGA AND See Surjiving granding.
SAMPRAGA AND LOCA. See Penerdampin.
SAMPRAGA CRASSIFORIA. The root of this species of eaxifrage is extolled by professor Pallas as an antiseptic.
SAMPRAGA GRANDLATA. The systematic name of the white samifrage. Sampraga alba. Called by Oribasius Roots. Samples seeking Limprag describes a described seeking. basins Besto. Sanicula sedum. Linnaus describes the taste of this plant to be acrid and pungent, which we have not been able to discover; neither the tuber-cles of the root nor the leaves mannest to the organs cles of the root nor the leaves mannest to the organs of taste any quality likely to been medicinal use, and therefore, though this species of saxifrage has been long employed as a popular remedy in replicitie and gravelly disorders, yet we do not find either from us sensible qualities, or from any published instances of its efficacy, that it deserves a place in the Materia Me dica. The superstitious doctrine of signatures suggested the use of the root, which is a good example of what Linnaus has termed raday granulara. The buffls or tuberless of such roots among any transfer of such roots among any any angulary. What Difficults are the ready graduates. The owner of tubercles of such roots answer an important purpose in vegetation, by supplying the plants with nour rishment and moisture, and thereby enabling them to resist the effects of that drought to which the dry soils they inhabit peculiarly expose them

they inhabit peculiarly expose them.

SAMIFRAGA VULDARIS. See Spiraa filipendula.

SAMIFRAGA VULDARIS. See Peacedanum silaus.

SAMIFRAGE. See Samiraga.

Samirage, burnet. See Proposella samiraga.

Samirage, medion. See Peacedanum silaus.

Samirage, medion. See Peacedanum silaus.

Samirage, white. See Samiraga granulata.

Samon blue. See Blue, samon.

SCAB. A hard substance covering superficial ulcerations, and formed by a concretion of the fluid discharged from them.

charged from them.

SCABER. Rough to the touch from any little rigid requalities: applied to several parts of plants. SCA BIES. (Scabies, et. f.; from scabo, to scratch.) inequalities

See Psora. SCABIO'SA. (From scaber, rough: so called from SCABIO'SA. (From scaber, rough) across of a genus of plants in the Linnaun system. Class, Tetranarm;

Order, Monogynia.
2. The pharmacopaial name of the common scabi-See Scabrosa arvensis

The systematic name of the This herb, Scabiosa-cocollis SCABIOSA ARVENSIS. common field scabious. quadrifides radiantibus; folus pionatyphes, messes; caule hispido, of Linnaus, and its flowers are some-times used medicinally. The whole plant possesses a

bitter and subadstringent taste, and was formerly much employed in the cure of some leprous affections and diseases of the lungs.

The systematic name of the SCABIOSA SUCCISA. devil's bit scabious.

SCABRIDEÆ. (From scaber, rough.) The name of an order of plants in Linneus's Fragments of a Natural Method, consisting of plants with rough leaves, incomplete and inclegant flowers.

SCA LA. A ladder or stancase. Scala TYMPANI. The superior spiral cavity of the

SCALA VESTIBULI. The inferior spiral cavity of the

SCALD. See Ambusto.
Social heads. See Traca capitis.
Social heads. See Traca capitis.
SCALES. Squama. A lamina of morbid cuticle, SCALES. Squama. A lamina of words a very small size, and megular, often increasing into layers, deno-nizated cross. Both scales and crosts repeatedly fall

off, and are reproduced in a short time.

SCALE NUS. (Scalbans, sc. Musculus; from σκα-ληνος, irregular or unequal.) A muscle about which anatomical writers have differed greatly in their de-scriptions. It is situated at the side of the neck, between the transverse processes of the cervical vertebre and the upper part of the thorax. The ancients who gave it its name from its resemblance to an irregular gave it its name from its resemblance to an irregard trangle, considered it as one muscle. Vesailus and Wipslow divide it into two, Fallopius and Cowper into three, boughts into four, and Albaius into five portions, which they describe as distinct muscles. Without deviating in the least from anatomical accuracy, it may be considered as one muscle divided into three portions. The anterior portion arises commonly from the transverse processes of the six inferior vetebra of the neck, by as many short tendons, and descending obliquely by as many short tendons, and descending obliquely outward, is inserted tendinous and fleshy, into the upper side of the first rib, near its cartilage. The axiliary artery passes through this portion, and sometimes divides it into two slips, about an inch and a half above its insertion. The middle portion arises by distinct tendons, from the transverse processes of the four last vertebra of the neck, and descending obliquely outwards and a little backwards, is inserted tendinous into the outer and upper part of the first rib, from its root to within the distance of an inch from its cartilage. The space between this and the anterior roots or The space between this and the anterior portion, af-fords a passage to the nerves going to the upper ex-tremities. It is in part covered by the third or posterior portion, which is the thinnest and longest of the three. portion, which is the thinnest and longest of the three. This arises from the transverse processes of the second, third, fourth, and fifth vertebrae of the neck, by distinct tendons, and is inserted into the upper edge of the second rib, at the distance of about an meh and a half from its articulation, by a broad flat tendon. The use of the scalenus is to move the neck to one side, when it acts singly, or to bend it forwards, when hoth nuncleoget; and when the neck is force, it serves both muscles act; and when the neck is fixed, it serves to elevate the ribs, and dilate the chest.

SCALENTS PRIMUS. See Scalenus

SCALENUS SECUNDUS. See Scalenus.
SCALEFULLUM. A scaled or common dissecting knife.

SCALPRUM. A denticular raspetory, used in trepanning.

Scalu. See Squamosus. SCAMMO'NIUM. (A (A corruption of the Arabian

SCAMMO NIUM. (A corruption of the Arabian word chamovals.) See Convolvatus scammonia. SCAMMONY. See Convolvatus scammonia. SCAMDENS. Climbing, either with spiral tendrils for its support, or by adhesive fibres. Applied to stems, see, as that of the Fetes veinfera, and Bruonia dioica. SCANDIN. The name of a geing of plants in the Limbean system. Class Pentandria; Order, Dignia. SCANDIN. The systematic name of the officinal chervil. Cerefolium; Chorophyllum; Cho sufficiently grateful both to the palate and stomach, slightly aromatic, gently aperient, and directic.

SCANDIX ODORATA. The systematic name of the

sightly-aromatic, gently aperient, and dimeric. Sensory operator. The systematic name of the sweet ricely, magnetic, which possesses virtues similar to the common chervil. See Seandiz cerefolium. SCAPHA. (A skiff, or cock-heat, from σκαπτω, to make hollow, because formerly it was made by executing a large-free.). The execution or cavity of the auricula, or external ear, between the helix and satisfies. antibelix

2. The name of a double headed roller

SCAPHOID. See Scaphoides.

SCAPHOI DES. (From σκαφη, a little vessel, or boat, and ειδος, resemblance.) Boat-like. See Navi-

SCAPOLITE. Pyramidal felspar. Professor Jameson divides this into four subspecies

1. Rudrated, of a gray colour, resinous, and pearly in distinct concretions, and crystallized, found in the neighbourhood of Arendal, in Norway, associated with magnetic tronstone, and felspar.

2. Foliated scapolite, crystallized and of a gray, green, and black colour, found in granular granite, or whitestone, in the Saxon Erzegebirge

3. Compact scapolite, of a red colour, found with the former species.

4. Elaolite. SCAPULA. (From the Hebrew schipha.) plata; Os homoplata; Scaptula; Epinotion. The shoulder-blade. This bone, which approaches nearly to a triangular figure, is fixed, not unlike a buckler, to the upper, posterior, and lateral part of the thorax, extending from the first to about the seventh rib. The anterior and internal surface is irregularly concave, from the impression, not of the ribs, as the generality of anatomists have supposed, but of the subscapularis muscle. Its posterior and external surface is convex and divided into two unequal fossæ by a considerable spine, which, rising small from the posterior edge of the scapula, becomes gradually higher and broader, as it approaches the anterior and superior angle of the temploaenes ne anorro and superior and and flat bone, till at length it terminates in a broad and flat process, at the top of the shoulder, called the processus aeromion. On the anterior edge of this processus aeromion, we observe an oblong, concave, articulating surface covered with cartilage, for the articulation of the scapula with the clavicle. At its lower part, the acromion is hollowed, to allow a passage to the supra and intra spinati muscles. The ridge of the spine af-fords two rough, flat surfaces, for the insertion of the trapezius and deltoid muscles. Of the two fossæ into Which the external surface of the bone is divided by the spine, the superior one, which is the smallest, serves to lodge the supra spinatus muscle; and the inferior to toge the supra spinatus muscle; and the interior fossa, which is much larger than the other, gives origin to the infra spinatus. The trangular shape of the scapula leads us to consider its angles and its sides. The upper posterior angle is neither so thick, nor has so rough a surface, as the interior one; but the most remarkable of the three angles of this home is the an terior one, which is of great thickness, and formed into a glenoid cavity of an oval shape, the greatest diameter of which is from below upwards. This cavity, in the recent subject, is furnished with cartilage, and receives the head of the os humeri. The cartila ginous crust, which surrounds its brims, makes it appear deeper in the fresh subject than in the skeleton A little beyond this glenoid cavity, the bone becomes narrower, so as to give the appearance of a neck, and above this rises a considerable process, which, from being thick at its origin, becomes thinner, and, in some degree, flattened at its extremity. This process projects considerably, and is curved downwards. From its supposed resemblance to a beak of a bird, it is called the coracoid process. From the whole external side of this process, a strong and broad ligament is stretched to the processus acromion, becoming narrower as it approaches the latter process, so as to be of a some what triangular shape. This ligament, and the two processes with which it is connected, are evidently intended for the protection of the joint, and to prevent a luxation of the os humeri upwards. Of the three sides of the scapula, the posterior one, which is the longest, is called the basis. This side is turned towards the vertebra. Its other two sides are called costa The superior costa, which is the upper and shortest side, is likewise thinner than the other two, having a sharp edge. It is nearly horizontal, and parallel with the second rib; and is interrupted near the basis of the coracoid process, by a semicircular niche, which is closed by a figament that extends from one end of it to the other, and affords a passage to vessels and nerves Besides this passage, there are other niches in the scapula for the transmission of vessels; viz. one between the coracoid process and the head of the bone. and another between its neck and the processus acro mion. The third side of the scapula, or the inferior costs acit is called is of considerable thickness, and

extends obliquely from the neck of the bone to its inferior angle, reaching from about the third to the eighth rib. The scapula has but very little cellular substance, and is of unequal thickness, being very thin at us middle part, where it is covered by a great number of muscles, and having its neck, the acromion, and coracon' process, of considerable strength. fietus, the basis and the neck of the scapula, together with its glenoid cavity, acromion, coracoid process, and the ridge of the spine, are so many epiphyses with respect to the nest of the bone, to which they are not completely united till a considerable time after birth. The scapula is articulated to the cavicle and os humeri, to which last it serves as a fulcrum; and, by altering its position, it affords a greater scope to the bones of the arm in their different motions. It likewise affords attachment to a great number of muscles, and

posteriorly serves as a defence to the thorax. SCAPULAR. (Scapularis; from scapula, the shoulder bone.) Belonging to the scapula; as the scapulary arteries and veins, which are branches of the subclavian and axillary. SCAPULATIA. (From scapula, the shoulder-bone.) A scapulary. A bandage for the shoulder-bone.) A scapulary.

SCAPUS. (Scapus, i. m.; from σκαπτα, to lean or rest upon; because it rests as it were on the root or base.) A stalk which springs from the root, and bears the flowers and truit, but not the leaves. The prim

rose and cowship are good examples of it.

The following are the principal varieties:

- Teres; as in Plantago major.
  Angulosus; as in Plantago lanceolata.
  Ventruosus, hollow at the bottom; as in Allium cepa.
- Flexuosus; as in Orchis flexuosa
   Anceps; as Alum augulosum.
- 6. Fittpowns; as Bellis bellidodes.
  7. Triquetrus; as Allum triquetrum.
  8. Spreales, as Authernum spirale, and that wonderful plant, Valisnera spiralis.
  - 9. Pentagonus; as Ophris paludosa

  - Artreulatus; as Stance echiondes.
     Erectus; in Tubpa gesneriana.
  - 11. Exectus; in Tutipa gesneriana.
    12. Ascendus; in Stymbrium vimineum.
    13. Dicelanatus; as Asbagadus incanus.
    14. Dicendus; as Potentilla sabacaulis.
    15. Dichotomus; as Statice tartarica.
    16. Nodus; as Convaliaria magnis.
    17. Eritovas; as Opuris insectiera.

- Bructeatus, and most of the Orchides.
   Imbricatus: as Tussilago farfara.
- 20. Setuccus; as Schamus bulbosus.

21. Faginetas; as Arcthusa bulbosa. When several species of the same plant have a sea

pus, and it is wanting in one of the same species, it is

purs, and it is waiting it of our or the same species, it is termed evergine; as in Astragalus exscapus. SCARBOROUGH, I. The name of a town in York-sine, noted for us ferroginous spring. There are two species of chalybeate water found in this spot, and they differ considerably in their composition, though they use nearly contiguous to each other. The one is a simple carbonated chalybeate, similar to the Tun-bridge water; the other, which is better known and more frequented, and more particularly distinguished as Scarborough water, has, in conjunction with the iron, a considerable admixture of a purging salt, which adds much to its value. The diseases in which it is ordered are similar to those in which tris-ordered are similar to those in which Cheltenham water is prescribed, only it is necessary to increase the purgative effect, of this water by adding similar salts. It is, therefore, chiefly as an alterative that this water can be employed in its natural state

Scarborough has an advantage belonging to its situation which Chetrenham does not possess, that of af-fording an opportunity for sea-bathing, the use of which will, in many cases, much assist in the plan of cure for many of the disorders for which the mineral

water is resorted to.
2. The name of a physician. Sir Charles, born about the year 1616. Intending to follow the medical profession, he went to study at Cambridge, and applied himself particularly to the mathematics, in which he made great proficiency. During the civil wars he was obliged to remove to Oxford, where he entered under the celebrated Harvey, then warden of Merton College, who, being employed in writing his treatise " De Generatione Animalium," gladly accepted the assistance of Mr. Scarborough. Upon taking the degree of doctor of medicine, he settled in the metropolis, where he practised with great reputation. He became a fel of the college of physicians, in which he was much respected for his talents; and being appointed to introrespected for instancies, and being appointed to hurse duce the Marquis of Dorchester, who was admitted into that body in 1658, he made an elegant Latin speech on that occasion. In the mean time he began to del ver anatomical lectures at Surgeons' Hall, which were highly approved, and continued for sixteen or seventeen In 1669 the order of knighthood was conferred years. In floor the order of kinginhood was conferred upon him by Charles II, who also appointed him his chief physician; and he enjoyed the same office under the two succeeding monarchs. He was likewise made physician to the Tower of London, which appoint ment he retained fill his death about the year 1702. The works left by him were chiefly mathematical.

The works let by him were enterly maintenantical: SCARF-SKIN. See Cuticle and Skin. SCARIFICATION. (Scarificatio; from scarifico, os scarify.) A superficial incision made with a lancet, or a chirurgical instrument called a scarificatio, for the taking away blood, or letting out fluids, &c

SCARIFICATOR. An instrument used by surgeons and cuppers to evacuate blood. It is made in form of a box, in which are fitted, ten, twelve, or more

form of a box, in which are fitted, ten, twelve, or more lancets, all perfectly in the same plane; which being, as it were, cocked, by means of a spring are all discharged at the same time, by pulling a kind of trigger, and driven equally within the skin.

SCARTOLA. See Lacturen scariola.

SCARTOLA GALLORUM. See Lacturen scariola.

SCARLATINA. (From scariatto, the Italian for a deep red.) The scarlet fever. A genus of disease in the Class Pyrexia, and Order Exauthematu, of Cullen; characterized by contagious synocha; the fourth day the face swells; a scarlet eruption appears on the skin in patches: which, after three or four days. on the skin in patches; which, after three or four days ends in the desquamation of the cuticle, and is often

1. Scarlatina simpler, the mild.
2. Scarlatina cynanchica, or anginosa, with ulcerated sore throat

Dr. Willan has added to these a third, called maligna, agreeing with the cynanche maligna, of Cullen.

Some have asserted that scarlatina never attacks the same person a second time; more extensive observa-tion has confuted this opinion. It seizes persons of all ages, but children and young persons are most subject to it, and it appears at all seasons of the year; but it is more frequently met with towards the end of autumn, or beginning of winter, than at any other periods, at which time it very often becomes a prevalent epi It is, beyond all doubt, a very contagious disdemic.

The one to which it bears the greatest resemblance The one to which it bears the greater resemblant is the measles; but from this it is readily to be distinguished by the absence of the cough, watery eve, running at the nose and enezing, which are the predominant symptoms in the early stage of the measles, but which do not usually attend on the scarlatina, or at

least in any high degree.

It begins, like other fevers, with languor, lassitude, confusion of ideas, chills, and shiverings, alternated by fits of heat. The thirst is considerable, the skin dry, and the patient is often incommoded with anxiety, nausea, and vomiting. About the third day, the sear-let efflorescence appears on the skin, which seldom produces, however, any remission of the fever. On the departure of the efflorescence, which usually continues out only for three or four days, a gentle sweat comes on, the fever subsides, the cuticle or searf skin then falls off in small scales, and the patient gradually regains his former strength and health.

On the disappearance of the efflorescence in scarla tina, it is, however, no uncommon occurrence for an anasarcous swelling to affect the whole body, but this

is usually of a very short continuance.

Scarlatina anginosa, in several instances, approaches very near to the malignant form. The patient is seized not only with a coldness and shivering, but likewise with great languor, debility, and sickness, succeeded by heat, nausea, vomiting of bilious matter. Someoness of the throat, inflammation, and ulceration in the tonsile, &c., a frequent and laborious breathing and a quick and small depressed pulse. When the collorescence appears, which is usually on the third day, it antiphlogistic regimen. But where the throat is af-

brings no rehef on the contrary, the symptoms are much aggravated, and fresh ones arise.

In the progress of the disease, one universal redness

to the progressor the disease, one moversal rendess unattended, however, by any pushida eruption, per-vades the face, body, and limbs, which parts appear somewhat swotlen. The eyes and mostris partake likewise more or less of the redness, and, in proportion as the former have an inflamed appearance, so does the

tendency to delirium prevail.

On the first attack, the fauces are often much inflamed; but this is usually soon succeeded by grayish slongis, which give the parts a speckled appearance, and render the breath more or less fietid. The patient is often cut off in a few days; and even if he recovers, it will be by slow degrees; dropsical swellings, or vers, it will be by slow degrees; dropsical swellings, or tuneous of the parotud, and other glands, slowly sup-purating, being very apt to follow. In the malignant form of the disease the symptoms at first are pretty much the same; but some of the following peculiari-ties are afterward observable. The pulse is small, in-distinct, and irregular; the tongue, teeth, and ings, covered with a brown or black incrustation; a dull redness of the eyes, with a dark-red flushing of the cheeks, deafness, delirium, or come; the breath is extremely fætid; the respiration rattling and laborious, partly from viscid phlegm clogging the fauces; the deglutition is constricted and painful; and there is a ful-ness and livid colour of the neck, with retraction of hese and twu cooled of the feets, will return out the head. Ulcerations are observed on the tonsils and adjoining parts, covered with dark sloughs, and surrounded by a livid base; and the tongue is often so tender as to be excoriated by the slightest touch. An acrid discharge flows from the nostrils, causing soreness, or chaps, nay, even blisters, about the nose and lips; the fluid discharged being at first thin, but afterward thick and yellowish. The rash is usually faint, except in a few irregular patches; and it presently changes to a dark, or livid red colour: it appears late, is very uncer-tain in its duration, and often intermixed with pete-chia: it sometimes disappears suddenly a few hours after it is formed, and comes out again at the expira tion of two or three days. In an advanced stage of the disease, where petechia, and other symptoms characteristic of putrescency, are present, hæmorrhages frequently break forth from the nose, mouth, and other

When scarlatina is to terminate in health, the fiery redness abates gradually, and is succeeded by a brown colour, the skin becomes rough, and peels off in small scales, the tumefaction subsides, and health is gradually restored. On the contrary, when it is to terminate fatally, the febrile symptoms run very high from the first of its attack, the skin is intensely hot and dry, the pulse is very frequent but small, great thirst prevails, the breath is very fætid, the efflorescence makes its appearance on the second day, or sooner, and about the third or fourth is probably interspersed with large livid spots; and a high degree of delirium ensuing, or hæmorrhages breaking out, the patient is cut off about In some cases a severe purging arises, which never fails to prove fatar. Some, again, where the symptoms do not run so high, instead of covering, as is usual, about the time the skin begins to regain its natural colour, become dropsical, fall, into a kind of lingering way, and are carried off in the course of a few weeks.

Scarlatina, in its inflammatory form, is not usually attended with danger, although a considerable degree of delirum sometimes prevails for a day or two; but when it partakes much of the malignant character, or degenerates into typhus putrida, which it is apt to do, it often proves fatal. On dissection of those who die of this disease, the fauces are inflamed, suppurated, and gangrenous; and the trachea and larvny are like wise in a state of inflammation, and fined with a viscid wise in a safe of innational many instances the inflammatory affection extends to the lungs themselves. Large swellings of the lymphatic glands about the neck, orcasioned by an absorption of the acrid matter poured out in the fances, are now and then to be found same morbid appearances which are to be met with in putrid fever, present themselves in other parts of the

The plan to be pursued will differ according to the

fected, and the fever runs higher, more active means become necessary, varying according to the type of this, whether synochal, or typhoid. In general, we may begin by exhibiting a nauscating emetic, which, hay begin by exhibiting a hauscaring emeric, which, besides its effect on the fever, may be useful in check-ing inflammation in the throat; and occasionally the repetition, of such a remedy after a time, may answer a good purpose: but commonly it will be better to follow up the first by some cathlactic remedy or sufficient ac-tivity. Then, so long as the strength will allow, we may endeavour to moderate the fever by mercurial and antimonial preparations, or other medicines promoting the several secretions, by steadily pursuing the anti-phlogistic regimen, and occasionally applying cold water to the skin, when this is very hot and dry. Sometimes severe inflammation in the throat at an early period may render it advisable to apply a few leeches externally, or blisters behind the cars: and gar-gles of nitrate of potassa, the mineral acids, &c. should be used from time to time. But where the disorder exhibits the typhoid character, with ulcers in the throat, tending perhaps to gangrene, it is necessary to support the system by a nutritious diet, with a moderate quanthe system by a neutrinous acts, while a in-act act quan-ity of wine, and tonic or stimulant medicines, as the cinchona, calumba, ammonia, capsicum, &c.; the acids will also be very proper from their antiseptic, as well as tonic power; and stimulant antiseptic gargles should be frequently employed, as the mineral acids suf ficiently diluted, with the addition of tructure of myrrh, or these mixed with the decoction of bark, &c sides the general measures, thus varied according to the character of the disease, particular abarming symptoms may require to be palliated; as vomiting by the effervescing draught, and occasionally a blister to the enervescing araught, and occasionany a buster to the stomach, if there be tenderhess on pressure: darribea by small doses of opium, &c. The management of these, however, as well as of the dropsical satellings, and other sequels of the disease, will be understood from what is said under those heads respectively.

SCARLATINA ANGINOSA. See Scarlatina. SCARLATINA CYNANGHICA. See Scarlatina

SCARLATINA SYMMETRY. See Scarlatina.
SCARLATINA SYMPLEX. See Scarlatina.
Scarlet fever. See Scarlatina.
SCELOTYREE. (From exchac, the leg, and rugby, riot, intemperance.) A debility of the legs from scurvy,

or an intemperate way of the.
Schaalstein. See Tahular spar
Schaum earth. See Aphrite.
SCHERO MA. A drynessof the SCHERO MA. A dryness of the eye from the want of the lachrymal fluid. The effects of this lachrymal fluid being deficient are, the eyes become dry, and in their motions produce a sensation as though sand, or some gritty substances, were between the eye and the eyelid; the vision is obscured, the globe of the eye apears toulish and dull, which is a bad omen in acute diseases. The species are

1. Scheroma febrile, or a dryness of the eyes, which is observed in fevers complicated with a phlogistic den

sity of the humours.

. Scheroma exhaustorum, which happens after great evacuations, and in persons dying

3. Scheroma inflammatorum, which is a symptom of

the ophthalmia sicca.

Scheroma dinerantium, or the dryness of the eyes, which happens in sandy places, to travellers, as in hot Syria, or from dry winds, which dry up the humidity necessary for the motion of the eyes.

Sempree Don. (From σχιδαξ, a splinter.) A longitudinal fracture of the bone.

SCHILLER SPAR. This mineral contains two aubspecies

 New Branzite.
 The common Schiller spar, which is of an olive green colour, and occurs imbedded in serpentine in Shetland, Cornwall, &c. Sentreleval, (From σχινος, mastich, and ελαιον, l.) Oil of mastich.

oll.) On of masticit.
SCHNEIDER, CONRAD VICTOR, was born at Bitterfeld, in Misnia. He filled the offices of professor of 
anatomy, botany, and medicine, at Writemberg, with 
great reputation: and was father of the faculty when 
he died in 1680. He wrote many treatises; those on 
he died in daylor stating chiadry to the bornes of the 
mathemical achiests which in the limit of the faculty of the 
professor. anatomical subjects relating chiefly to the bones of the cranium, and to the pituitary membrane of the nostrils, to which his name is still attacked. He rejuted an ancient error, that the mucus in catarrh distilled through the cribriform bone from the brain, showing that it was

secreted by the pituitary membrane. In other respects, his writings, except in anatomy, are diffuse and ob-scure, and full of ancient hypothetical doctrines.

SCHNEIDER'S MEMBRANE. So called from its dis-overer. See Mem'rana Schneideruna. SCHCENA NTHUS. From σχαινός, a rush, and

arthy, a flower See Andropogon schananthus.

Send. Not. Act at 8. From σχοι 108, α 7 μ8h, λαγως a hate, and σεφα, a tail: so called from its resemblance to a hare's tail.) Hare's tail. The Trifolium ar-

SCHORL. A sub-species of thomboidal tourmaline, of a velvet black colour, found imbedded in granite, gneiss, &c. in Scotland and Cornwall.

School, blue. A variety of Hauyne. School, red and telanic. Rutile.

Schorl, red and tetanic. Rutile. SCHORLITE. Schorlous topaz. Pycnite of Wernet. This immeral is of a straw yellow colour, and becomes electric by heating. It is found at Altenberg in Saxont, in a rock of quartz and mica in porphyty. SCIATIC. (Sciaticus, from ischiaticus.) Belong-

ing to the ischium.

SCIATIC ARTERY. Arteria sciatica. Ischiatic re-

A branch of the internal iliac. SCIATIC NERVE. Nervus sciaticus. Ischiatic nerve. A branch of a nerve of the lower extremity, formed by the union of the humbar and sacral nerves.

divided near the populated cavity into the tibial and peroneal, which are distributed to the leg and foot. SCIATIC NOTCH. Ischiatic notch. See Innomina-

SCIATIC VEIN. Vena sciatica. The vein which accompanies the sciatic artery in the thigh.

SCIATICA. A rheumatic affection of the hip-

Scotten cresses. See Lepidium iberis.
SCI LLA. (From σκιλλω, to dry: so called from its property of drying up humours.) 1. The name of a geous of plants in the Linnean system. Class, Hex-andria; Order Monogynia.

2. The pharmacoperal name of the medicinal squill

See Seilla maritima.

SCILLA HISPANICA. The Spanish squill. SCILLA HISPANICA. The Spanish squill.

SCILLA MARITICA. The systematic name of the officinal squill. Ornithogalum maritimum; Squilla. Scilla—nudiflora, bractics refracts, of Linnacus. A native of Spain. Scily, and Syria, growing on the sea-coast. The red rooted variety has been supposed to be nore efficacions than the white, and is, therefore, still preferred for medicinal use. The root of the squill, which appears to have been known as a medicine in the early ages of Greece, and has so well maintained its character ever since, as to be deservedly in great estimation, and of very frequent use at this time, seems to manifest a poisonous quality to several animals. In proof of this, we have the testimonies of Hillefield, Berproof of this, we have the testimonies of riminend, bes-gues, Vogel, and others. Its actimony is so great, that even if much handled, it exulcerates the skin, and if given in large dosses, and frequently repetited, it not only excites nausea, tormina, and violent vomiting, but it has been known to produce strangury, bloody urine, hypercatharsis, cardialgia, hemorrhoids, convulsions, with fatal inflammation, and gangrene of the stomach and bowels. But as many of the active arti-cles of the Materia Medica, by injudicious administration, become equally deleterious, these effects of the scilla do not delogate from its medicinal virtues; on the contrary, we feel ourselves fully warranted, says Dr. Woodville, in representing this drug, under proper management, and in certain cases and constitutions, to be a medicine of great practical utility and real importance in the cure of many obstinate diseases. Its effects, as stated by Bergius, are incidens, diuretica, emetica, subpurgans, hydragoga, expectorans, emme-nagoga. In dropsical cases it has long been esteemed the most certain and effectual diuretic with which we are acquainted; and in astimatic affections, or dysp-nga, occasioned by the lodgement of tenacious phlegm, it has been the expectorant usually employed. squill, especially in large doses, is apt to stimulate the stomach, and to prove emetic; and it sometimes acts on the intestines, and becomes purgative; but when these operations take place, the medicine is prevented from reaching the blood vissels and kidneys, and the patient is deprived of its directic effects, which are to be obtained by giving the squill in smaller doses, re-peated at more distant intervals, or by the joining of an

oplate to this medicine, which was found by Dr. Cullen to answer the same purpose. The Dector further ob-serves, that from a continued repetition of the squil, the dose may be gradually increased, and the interval of dose may be grantiany increased, and the intervar of its exhibitions shortened; and when in this way the dose becomes to be tolerably large, the opiate may be most conveniently employed to direct the operation of the squal more certainly in the kidneys. "In cases of dropsy, that is, when there is an effusion of water into the cavities, and therefore less water goes to the kid the castres, and therefore less water goes to the kin-neys, we are of opinion that neutral salt, accompany-ing the squill, may be of use in determining this fluid more certainly to the kidneys; and whenever it can be perceived that it takes this course, we are persuaded that it will be always useful, and generally safe, during the exhibition of the squills, to increase the usual quan tity of drink."

The diuretic effects of squills have been supposed to be promoted by the addition of some mercurial; and the less purgative preparations of mercury, in the opinion of Dr. Cullen, are best adapted to this purpose: he therefore recommends a solution of corrosive sublimate, as being more proper than any other, because most diuretic. Where the prime viæ abound with mucous matter, and the lungs are oppressed with viscid phiegm, this medicine is likewise in general estima-

As an expectorant, the squill may be supposed not only to attenuate the mucus in the follicles, but also to excite a more copious secretion of it from the lungs. and thereby lessen the congestion, upon which the difficulty of respiration very generally depends. There fore in all pulmonic affections, excepting only those of fore in all pulmonic affections, excepting only those of actual or violent inflammation, ulcer, and spasm, the squill has been experienced to be a useful medicine. The officinal preparations of squills are, a conserve, dried squills, a syrup, and vinegar, an oxymel, and pilla. Practitioners have not, however, confined them-selves to these. When this root was intended as a diuretic, it has most commonly been used in powder, as being, in this state, less disposed to nauseate the stomach; and to the powder it has been the practice to add neutral salts, as nitre, or crystals of tartar, espe-cially if the patient complained of much thirst; others recommend calomel; and with a view to render the squills less offensive to the stomach, it has been usual to conjoin an aromatic. The dose of dried squills is from one to four or six grains once a day, or half this quantity twice a day; afterward to be regulated ac-cording to its effects. The dose of the other preparacording to its effects. tions of this drug, when fresh, should be five times this weight; for this root loses in the process of drying four-fifths of its original weight, and this loss is merely a watery exhalation.

a watery exhibation.

Schliffes. (From σκίλλα, the squill.) A wine impregnated with equills.

SCHLIFIN. A white transparent, acrid substance, extracted by Vosel from squills.

SCINCUS. (From sheque, Hebrew.) The skink. This amphibious animal is of the fixard kind, and caught about the Nile, and thence brought dried into this country, transfelds, sample, and glasse, as it for the country transfelds, sample, and glasse, as it for the second section. this country, remarkably smooth and glossy, as if varnished. The flesh of the animal, particularly of the helly, has been said to be discretic, alexipharmic, aphrodisiac, and useful in leprous disorders.

SCIRRHO'MA. (From σκιρροω, to harden.) See

SCI'RRHUS. (From σκιρροω, to harden.) Scir-lama; Scirrhosis. A genus of disease in the Class rhoma; Scirrhosis. A genus of disease in the Class Locales, and Order Tumores, of Cullen; known by a hard tunour of a glandular part, indoent, and not readily suppurating. The following observations of Pearson are deserving of attention. A search us, it says, is usually defined to be a hard, and almost usen. sible tumour, commonly situated in a glandular part. and accompanied with little or no discoloration of This description agrees with the surface of the skin. true or exquisite scirrlus; but when it has proceeded from the indolent to the malignant state, the tumour is then unequal in its figure, it becomes painful, the skin acquires a purple or livid bue, and the cutaneous veins are often varicose. Let us now examine whether this enumeration of symptoms be sufficiently accurate for practical purposes.

It is probable, that any gland in the living body may be the seat of a cancerous disease, but it appears me frequently as an idiopathic affection in those glands

that form the several secretions than in the absorbent glands, and of the secreting organs, those which sepa-rate fluids that are to be employed in the annual ecorate fluids that are to be employed in the animal economy, safter much oftener than the glands which secrete the excrementuous parts of the blood. Indeed, it may be doubted whether an absorbent gland be ever the primary seat of a true scirrbus. Daily experience evines, that these glands may suffer contamination from their comexion with a cameerous part; but under such circumstances, this morbid aiteration height the effect, of a disease in that might home. tion being the effect of a disease in that neighbouring part, it ought to be regarded as a secondary or consequent affection. I never yet met with an unequivocal proof of a primary scirrbus in an absorbent gland; and if a larger experience shall confirm this observation, and establish it as a general rule, it will afford material assistance in forming the diagnosis of this disease. The general term scrahus hath been applied, with too little discrimination, to indurated tumours of lymphatic When these appendages of the absorbent system enlarge in the carly part of life, the disease is commonly treated as strumous; but as a similar alteration monity treated as strimous; but as a similar auteration of these parts may, and often does, occur at a more advanced period, there ought to be some very good reasons for ascribing matignity to one rather than the other. In old people the tumour is indeed often larger, more indurated, and less tractable than in children, but when the alteration originated in the lymphytic glands, it will very rarely be found to possess any thing cancerous in its nature

If every other morbid alteration in a part were at the every other morbid attention in a part were at tended with pain and softness, then induration and defective sensibility might point out the presence of a scirrius. But this is so far from being the case, that even encysted tumours, at their commencement, frequently excite the sensation of impenetrable hardness.

All glands are contained in capsulæ, not very clas-tic, so that almost every species of chronic charge-ment of these bodies must be hard; hence this induration is rather owing to the structure of the part, than to the peculiar nature of the disease; and as glands in their healthy state are endowed with much sensibility, their healthy sale are chower with independence every disease that gradually produces induration, will rather diminish than increase their perceptive powers. Induration and insensibility may, therefore, prove that the affected part does not labour under an acute disease; but these symptoms alone can yield no certain information concerning the true nature of the morbid alteration. Those indolent affections of the glauds that so frequently appear after the meridian of life, commonly manifest a hardness and want of sensation, not inferior to that which accompanies a true scirrbus; and yet these tumours will often admit of a cure by the same mode of treatment which we find to be succe ful in scrofula; and when they prove unconquerable by the powers of medicine, we generally see them con-tinue stationary and innocent to the latest period of Writers have indeed said much about certain tumours changing their nature, and assuming a new character; but I strongly suspect that the doctrine of the mutation of diseases into each other, stands upon a very uncertain foundation. Improper treatment may, without doubt, exasperate diseases, and render a com-plaint, which appeared to be mild and tractable, damgerous, or destructive; but to aggravate the symptoms, and to change the form of the disease, are things that ought not to be confounded. I do not affirm, that a breast which has been the seat of a mammary abscess, or a gland that has been affected with scrofula, may not become cancerous; for they might have suffered from this disease had no previous complaint existed; but these morbid alterations generate no greater tenout these morph ancienting generate may be dency to cancer than if the parts had always retained their natural condition. There is no necessary connexion between the cancer and any other disease, nor has it been proved that one is convertible into the

Chirurgical writers have generally enumerated tu mour as an essential symptom of the scurius; and it mour as an escapilal symptom of the schrings, and it is very time, that this disease is often accompanied with an increase of bulk in the part affected. From long and careful observation, I am however induced to think, that an addition to the quantity of matter is rather an accidental than a necessary consequence of the presence of this affection.

When the breast is the seat of a scirrhus, the altered

part is hard, perhaps unequal in its figure, and definite;

hut these symptoms are not always connected with an actual increase in the dimensions of the breast. On the contrary, the true scirribus is frequently accompanied with a contraction and diminution of bulk, a retraction of the nipple, and a puckered state of the

The irritation produced by an indurated substance lying in the breast, will very often cause a determination of blood to that organ, and a consequent enlargement of it; but I consider this as an inflammatory state ment of it; but recombine in a saminamanary of the surrounding parts, excited by the scirnlas, acting as a remote cause, and by no means essential to the original complaint. From the evident utility of topical blood-letting under these circumstances, a notion has prevailed that the scirrhus is an inflammatory disease but the strongly-marked dissimilarity of a phlegmon but the strongy; marked dissimilarity or a pniegmon and an exquisite scirrhus, in their appearances, progress, and mode of termination, obliges me to dissent from that opinion. That one portion of the breast may be in a scirrhous state, while the of the prarts are in a state of inflammation, is agreeable to reason and experience; but that an inflammation, which is an acute disease, and a scirrhus, whose essential characters are almost directly the reverse of inflammation, shall be coexistent in the same part, is not a very intelligible proposition. Tumour and inflammation are commonly met with on a variety of other occasions, and in this particular instance they may be the effects of the dis-

ease, but are not essentially connected with its presence.

An incipient scirrhus is seldom accompanied with a discoloration of the skin; and a dusky redness, purple, or even livid appearance of the surface, is commonly seen when there is a malignant scirrhus, sence or absence of colour can, however, at the best, afford us but a very precarious criterion of the true nature of the complaint. When the disease is clearly known, an altered state of the skin may assist us in judging of the progress it has made; but as the skin may suffer similar variations in a number of very dis-

may suffer similar variations in a number of very dis-similar diseases, it would be improper to found an opi-nion upon so delusive a phenomenon. SCITAMINEÆ. (From scitamentum, a dairty.) The name of an order of plants in Linneus's Frag-ments of a Natural Method, consisting of those which have an herbaccous stalk, broad leaves, and the ger-men obtusely angled under an irregular corolla; as

amonum, cama, musa, &c.
SCLA'REA. (From σκληρος, hard; because its stalks are hard and dry, Blanch.) See Salvia sclarea.

SCLERI'ASIS. (From oxynpow, to harden.) Scleroma; Sclerosis. A hard tumour or induration; a

SCLEROPHTHA'LMIA. (From  $\sigma \kappa \lambda \eta \rho \rho \sigma_s$ , hard, and  $a\phi \theta a\lambda \mu \rho \sigma_s$ , the eye.) A protrusion of the eyeball. An inflammation of the eye, attended with hardness

of the parts.

Schrosarcoma. (From σκληρος, and σαρκωμα, a fleshy tumour.) A hard fleshy excrescence on the

SCLEROTIC. See Scleriasis.

SCI.ERO TIC. (Scienticus; from σκληροω, to harden.) The name of one of the coats of the eye. See Sclerotic acid.

SCLEROTIC COAT. Tunica selerotica; Membrana selerotica; Selerotis. The outermost coat of the eye, of a white colour, dense, and tenacious. Its anterior part, which is transparent, is termed the cornea trans-It is into this coat of the eye that the muscles of the bulb are inserted.

SCLERO TIS. See Sclerotic coat.
SCLERO TIS. See Sclerotic coat.
Scloretaria Adva. (From sclupetum, a gum; so called from its supposed virtues in healing gun-shot wounds.) Arquebusade. It is made of sage, mugwort, and mint, distilled in wine.

SCLOPETOPLAGA. (From sclopetum, a gun, and plaga, a wound.) A gun-shot wound.

SCOLFASIS. (From σκολιοω, to twist.) A dis-

tortion of the spine.
SCOLOPE'NDRIA. See Asplenium ceterach.
SCOLOPE'NDRIUM. (From σκολοπονόρα, the earwig: so called because its leaves resemble the earwig.) Sec Asplenium ceterach.

Scolopomacharum. (From σκολωπαξ, the woodcock, and μαχαιρα, a knife: so called because it is bent a little at the end like a woodcock's bill.) An incision-

SCO'LYMUS. (From σκολος, a thorn: so named from its prickly leaves.) See Cinara scolymus. SCOMBER. The name of a genus of fishes, of the

order Thoracici.

SCOMBER SCOMBER. The systematic name of the common mackarel, a beautiful fish, of easy digestion, which frequents our shore in vast shoals, between the months of April and July.

SCOMBER THYNNUS. The systematic name of the

tunny-fish, which frequents the shore of the Mediterra-nean, and, though a coarse fish, was much esteemed by the Greeks and Romans, and is still considered a delicacy by some.

Scopa Regia. See Ruscus aculcatus.
Scorbu'tia. (From scorbutus, the scurvy.) Me-

Scorn Regia. See Ruseus acuteatus.

Scorn Time. (From scorbutus, the scurvy.) Medicines for the scurvy.

Scorn Bul'Tus. (From schorbet, Germ.) Gingibrachium, when the gums and arms, and gingipadium, when the gums and legs, are affected by it. The scurvy. A genus of disease in the Class Cachexia, and Order Impetigines, of Cullen; characterized by extreme debility; complexion pale and bloated; spongy gums; livid spots on the skin; breath offensive; acutematous swellings in the legs; hæmorrhage; foul uleers; fextid urine; and extremely offensive stools. The scurvy is a disease of a putrid nature, much more prevalent in cold climates than In warm ones, and which chiefly affects sailors, and such as are shut up in besieged places, owing, as is supposed, to their being deprived of fresh provisions, and a due quantity of acescent food, assisted by the prevalence of cold and moisture, and by such other causes as depress the nervous energy, as indolence, confinement, want of exercise, neglect of cleanliness, much labour and fatigue, sadness, despondency, &c. These several debilitating ness, despondency, &c. These several debilitating causes, with the concurrence of a diet consisting principally of salted or putrescent food, will be sure to produce this disease. It seems, however, to depend more on a defect of nourishment, than on a viriated state; and the reason that salted provisions are so productive and the reason that salted provisions are so productive of the scurvy, is, most probably, because they are drained of their nutritious juices, which are extracted and run off in brine. As the disease is apt to become pretty general among the crew of a ship when it has once made its appearance, it has been supposed by many to be of a contactions nature; but the conjecture seems they are considered to the conjecture. seems by no means well founded.

A preternatural saline state of the blood has been assigned as its proximate cause. It has been contended, by some physicians, that the primary norbid affection in this disease is a debitated state of the solids, arising principally from the want of aliment. The scurvy comes on gradually, with heaviness, wea-riness, and unwillingness to move about, together with dejection of spirits, considerable loss of strength, and depiction of spirits consideration loss of strength, and debility. As it advances in its progress, the countenance becomes sallow and bloated, respiration is hurried on the least notion, the teeth become losse, the gums are spongy, the breath is very offensive, livid spots appear on different parts of the body, old wounds appear on different parts of the body, old wounds which have been long healed up break out afresh, severe wandering pains are felt, particularly by night, the skin is dry, the urine small in quantity, turning bue vegetable infusions of a green colour; and the pulse is small, frequent, and, towards the last, intermitting; but the intellects are, for the most part, clear, and dis-tinct. By an aggravation of the symptoms, the disease, in its last stage, exhibits a most wretched appearance. The joints become swelled and stiff, the tendons of the legs are rigid and contracted, general emaciation ensues, harmorrhages break forth from different parts, feetid evacuations are discharged by stool, and a diarrhæa or dysentery arises, which soon terminates the tragic scene.

Scurvy, as usually met with on shore, or where the person has not been exposed to the influence of the re mote causes before enumerated, is unattended by any violent symptoms, as slight blotches, with scall erup-tions on different parts of the body, and a sponginess of the gums, are the chief ones to be observed. In forming our judgment as to the event of the dis-case, we are to be directed by the violence of the symp-

toms, by the situation of the patient with respect to vegetable diet, or other proper substitutes, by his for-mer state of health and by his constitution, not having been impaired by previous disease

Dissections of scurvy have always discovered the

blood to be in a very dissolved state, The thorax ! usually contains more or less of a watery fluid, which, in many cases, possesses so high a degree of acrimony, as to excoriate the hands by coming in contact with it; as to excoriate the bands by coming in contact with utthe cavity of the abdomen contains the same kind of
fluid; the lungs are black and putrid; and the heart
itself has been found in a similar state, with its cavity
filled with a corrupted fluid. In many instances, the
epiphyses have been found divided from the bones, the
cartilages separated from the ribs, and several of the
bones themselves dissolved by caries. The brain celdom shows any dispass.

dom shows any disease

In the cure, as well as the prevention of scurvy, much more is to be done by regimen, than by medicines, ob-viating as far as possible the several remote causes of the disease, but particularly providing the patient with a more wholesomediet, and a large proportion of fresh vegetables; and it has been found that those articles are especially useful, which contain a native acid, as oranges, lemons, &c. Where these cannot be procured, various substitutes have been proposed, of which the best appear to be the inspissated juices of the same fruits, or the crystallized citric acid. Vinegar, sour crout, and farinaceous substances made to undergo the actous fermientation, have likewise been used with much advantage: also brisk fermenting liquors, as spruce beer, cider, and the like Formerly many plants of the Class Tetradynamia, as mustard, horse-raddish, &c. likewise garlic, and others of a stimulant quality, prolikewise garlic, and others of a stimulant quality, promoting the secretions, were much relied upon, and, no doubt, proved useful to a certain extent. The spongy doubt, proved useful to a certain extent. The spongy state of the gums may be remedied by washing the mouth with some of the mineral acids sufficiently diluted, or perhaps mixed with decoction of cinchona. The stiffness of the limbs by fomentations, cataplasms, and friction; and sometimes in hot climates, the earth-

hath has afforded speedy relief to this symptom.

SUO RDIUM. (From σκοροδον, garlic: so called because it smells like garlic.) See Teucrium scorbecause it smells like garlic.)

SCO'RIÆ. (Scoria; from σκω, excrement.) Dross. The refuse or useless parts of any substance.
Scorodoprasum. (From σκορούον, garlic, and πρασον,

The wild garlic, or leek shalot.

SCO'RODUM. (Απο του σκωρ οξειν, from its filthy smell.) Garlic.

(From σκορπιος, a scorpion.) Medi-

cines against the bite of serpents.

SCORPIOLIPES. (From σκορπιος, a scorpion, and ειδος, a likeness: so called because its leaves resemble the tail of a scorpion.) Scorpiurus. The Myosurus scorpioides.
SCORPIU'RUS. See Scorpioides.

SCORPIURUS. See Seorphoides.
SCORZA. A variety of epidote.
SCORZONF RA. (From escorza, a serpent,
Spanish: so called because it is said to be effectual
against the bite of all venomous animals.) 1. The
name of a genus of plants in the Linnaan system.
Class, Sygaenesis; Order, Polygamia equalis.
2. The pharmacopecial name of the viper grass. See

Scorzonera humilis.

SCORZONERA HISPANICA. The systematic name of the esculent vipers' grass. Serpentaria hispanica. The root of this plant is mostly sold for that of the

humilis.

Aumilis.

Scorzonera Humilis. The systematic name of the Scorzonera; Viperaria; Serpentaria hispanica. Goats' grass; Viperaria; Serpentaria hispanica. Goats' grass; Vipera' grass. The roots of this plant, Scorzonera—caule submudo, unifloro; foliis lato-lanceolatis, nervosis, planis, of Limneus, have been sometimes employed medicinally as alexipharmics, and in hypochondriacal disorders and obstructions of the viscera. The Scorzonera hispanica mostly sunglies the shops whole moti, esculed, decan mostly supplies the shops, whose root is esculent, olera-

mostly supputes the snops, whose those to estudent, ofer a ceous, and against diseases inefficacious. SCOTODINE. See Scotodinus. SCOTODINUS. (From окотос, darkness, and дуюс, n giddiness.) Scotodinin; Scotodinus; Scotoma; Scotodine; Scotomia. Giddiness, with impaired sight. SCOTOMA. (From σκοτος, darkness.) Blindness.

See Scotodinu

SCRIBONIUS, LARGUS, a Roman physician in the " De Comporeign of Claudius, who wrote a treatise, "De Compositione Medicamentorum." Many of these formulæ are perfectly trifling and superstitions; and the whole work displays a great attachment to empiricism. The style is also very deficient in elegance for the time in

which he lived, whence he appears to have been a person of inferior education. SCROBICULATUS. (Scrobiculus, a ditch, or fur-

SCROBICULATUS. (Scrobiculus, a ditch, or fur-row.) Hollowed; having a deep, round foramina: applied to the receptacle of the Helianthus annuas. SCROBICULUS (O RDIS. (Diminutive of scrobs, a ditch.) The pit of the stomach. SCROFULA. (From scroff, a, swine; because this animal is said to be much slibject to a similar disorder.)

animal is said to be much subject to a similar disorder.)
Scrophula; Struma; Coiras; Chraas; Ecruelles; Fr.
Scrofula. The king's evil. A genus of disease in the
Clase Cachezia, and Order Impetigines, of Cullen. He
distinguishes four species. 1. Scrofula vulgaris, when
it is without other disorders external and permanent.
2. Scrofula mesenterica, when internal, with loss of
appetite, pale countenance, swelling of the belly, and
an unusual factor of the excrements. 3. Scrotlaf
fugax. This is of the most simple kind; it is seated
only about the neck, and for the most part is caused
by absorption from sores on the head. 4. Scrofula only about the neck, and for the most part is caused by absorption from sores on the head. A Scrofula americana, when it is joined with the yaws. Scrofula consists in hard indolent tumours of the conglobate glands in various parts of the hody; but particularly in the neck; behind the ears, and under the chin, which, after a time, suppurate and degenerate into ulcers, from which, instead of pup, a white curdled matter, somewhat resembling the coagulum of milk is discharged. The first appearable of the disease is meat unable meatures.

what resembling the coagulum of milk is discharged. The first appearance of the disease is most usually between the third and seventh year of the child's age; but it may arise at any period between this and the age of puberty; after which it seldom makes its first attack. It most commonly affects children of a lax habit, with smooth, fine skins, fair hair, and rosy checks. It likewise is apt to attack such children as show a disposition to rachitis, marked by a protuberant forehead, enlarged joints, and a tunid abdomen. Like this disease, it seems to be peculiar to cold and variable climates, being rarely met with in warm ones. Scrofina is by no means a contagions disease, but, beyond all doubt, is of an hereditary nature, and is often entailed by parents on their children. There are, indeed, some practitioners who wholly deny that this, or any other disease, can be acquired by an hereditary right; but that a peculiar temperament of body, or predisposition in the constitution of some diseases, may extend from

in the constitution of some diseases, may extend from both father and mother to their offspring, is, observes Dr. Thomas, very clearly proved. For example, we very frequently meet with gout in young persons of both sexes, who could never have brought it on by intemperance, sensuality, or improper diet, but must have acquired the predisposition to it in this way.

Where there is any predisposition in the constitution to scrofula, and the person happens to contract a venereal taint, this frequently excites into action the causes of the former; as a venereal bubo not unfrequently becomes scrofulous, as soon as the virus is destroyed by mercury. The late Dr. Culten supposed scrofula to depend upon a peculiar constitution of the lymphatic system. The attracks of the disease seem much affected or influenced by the periods of the sealymphatic system. The attacks of the disease seem much affected or influenced by the periods of the seasons. They begin usually some time in the winter and spring, and often disappear, or are greatly amended in summer and autumn. The first appearance of the disorder is commonly in that of small oval, or spherical tumours under the skin, unattended by any pain or discoloration. These appear, in general, upon the sides of the neck, below the ear, or under the chin; but, in some cases, the joints of the choows or ankles, or those of the fingers and toes, are the parts first affected. In these instances, we do not, however, find small moveable swellings; but, on the contrary, a tumour almost uniformly surrounding the joint, and interrupting its motion.

After some length of time the tumours become larger and more fixed, the skin which covers them acquires a purple or livid colour, and, being much inflamed, they at last suppurate, and break into little holes, from which, at first, a matter somewhat puriform onzes out; but this changes by degrees into a kind of viscid serous discharge, much intermixed with small pieces of a white

substance, resembling the curd of milk

The tumours subside gradually, while the ulcers at the same time open more, and spread unequally in various directions. After a time some of the ulcers heal; but other tumours quickly form in different parts of the body, and proceed on, in the same slow manner as the former ones, to suppuration. In this manner the disease goes on for some years, and appearing at last to have exhausted itself, all the ulcers heal up, without being succeeded by any fresh swellings; leaving behind them an ugly puckering of the skin, and a scar of considerable extent. This is the most mild form under which scrofula ever appears. In mild form timer which scrotting ever appears more virulent cases, the eyes are particularly the seat of the disease, and are affected with ophthalmia, giving rise to ulocrations in the tarsi, and inflammation of the tunica adnata, terminating not unfrequently in an opacity of the transparent cornea.

In similar cases, the joints become affected, they swell and are incommoded by excruciating deep-seated pain, which is much increased upon the slightest motion. The swelling and pain continue to increase, the inuscles of the limb become at length much wasted. muscles of the limb become at length muscles and this is dis-Matter is soon afterward formed, and this is dis-charged at small openings made by the bursting of the skin. Being, however, of a peculiar acrimonious na-ture, it erodes the ligaments and cartilages, and pro-tance of the neighbouring bones. By an absorption of the matter into the system, hectic fever at

ist arises, and, in the end, often proves fatal.

When scrofula is confined to the external surface, it is by no means attended with danger, although on leaving one part, it is apt to be renewed in others; but when the ulcers are imbued with a sharp acrimony, spread, erode, and become deep, without showing any disposition to heal; when deep-seated collections of matter form among the small bones of the hands and feet, or in the joints, or tubercles in the lungs, with hectic fever, arise, the consequences will be fatal. On opening the bodies of persons who have died of this disease, many of the viscera are usually found in

a diseased state, but more particularly the glands of the mesentery, which are not only much tumified, but often ulcerated. The lungs are frequently discovered besetwith a number of tubercles or cysts, which contain matter of various kinds. Scrofulous glands, on being examined by dissoction, feel somewhat softer to the touch than in their natural state, and when laid open, they are usually found to contain a soft curdy matter, mixed with pus. The treatment consists chiefly in the use of those means, which are calculated to improve the general health; a nutritious diet, easy of digestion, a pure dry air, gentle exercise, friction, cold bathing, a pure ary an, genue exercise, friction, con batming especially in the sea, and strengthening medicines, as the preparations of iron, nayrib, &c.; but, particu-larly the Peruvian bark, with soda. Various mineral waters, and other remedies which moderately pronote the secretions, appear also to have been often useful. In irritable states of the system, bender has useful. In irritation states of the system, nemiors has been employed with much advantage. Mercury is generally injurious to scrofulous persons, when carried so far as to affect the mouth; yet they have sometimes improved under the use of the milder preparations of that metal, determined principally towards the skin. Medicate antiprovide also described on the second consequently. Moderate antimonials also, decoctions of sarsaparilla. mezereon, guaiacum, &c., burnt sponge, muriate of lime, and other such remedies, have been serviceable in many cases, perhaps chiefly in the same way. The application to scrofulous tumours and ulcers must vary according to the state of the parts, whether indolent or irritable: where the tumours show no disposition to irritatile: where the fumours show no disposition to enlarge, or become inflamed, it is, perhaps, best to interfere little with them; but their inflammation must be checked by leeches, &c., and when ulcers exist, stimulant lotions or dressings must be used to give them a disposition to heal; but if they are in an Irritable state, a cataplasm, made, perhaps, with hemlock, or other narcotic.

or other naccotic.

SCROPHULA. See Scrofula.

SCROPHULA MA. (From serofula, the king's scrole public from the unequal tubercles upon its roots, like scrofulous tumours.) The name of a genus of plants in the Linnean system. Class, Didynamia; Order, Angiospermia. The fig-wort.

Scrophulaxia—Quantos. Belonica aquatica. Greater water fig-wort. Water-belony. The leaves of this plant, Scrophulaxia—Gribis cordatis obtuss, petiolatis, decurrentibus; caule membranis angulato; racemis creminalibus, of Linneaus, are celebrated as correctors of the Ill-flavour of senna. They were, also, formerly in high estimation against piles, tumours of a scrofulous nature, inflammations, &c.

lous nature, inflammations, &c.
Serophul. ria minor. The pile wort is sometimes so called. See Ranunculus ficaria.

SCROPHULARIA RODOSA. The systematic name of the fig-wort. Scrophularia vulgaris; Millemorbia; Scrophularia. Common fig-wort or kernel-wort. The scroping area. Common up work of action root and leaves of this plant, Scrophularia—foliis cordatis, trinervatis; caule obtusangulo, of Linnaus, have been celebrated both as an internal and external remedy against inflammations, the piles, scrofulous tumours and old ulcers; but they are now only used in this country by the country people.

SCROTAL. Belonging to the scrotum.

SCROTAL HERNIA. Scrotoccle. A protrusion of any part of an abdominal viscus or viscera into the scrotum.

SCROTIFORMIS. Bag-like; applied to the nectary of the genus Satyrium. SCROTOCE'LE.

of the genus Salyrium.

SCROTOCE'LE. (From scrotum, and κηλη, a tumour.) A rupture or hernia in the scrotum.

SCRO'TUM. (Quasi scrotum, a skin or hide.)

Bursa teatium, Oscheus; Oscheon; Orchea, of Galen

The common integuments which cover the testicles.

SCRUPULUS. (Dinn. of scrupus, a small stone.)

A scruple or weight of 20 grains.

SCULTETUS. John. was horn at Ulm, in 1995, and.

SCULTETUS, JOHN, was born at Ulm, in 1595, and, after the requisite studies, graduated at Padua. He then practised with considerable reputation in his then practised with considerable reputation in native city, as well in surgery as in physic, and he ap-pears to have been very bold in his operations. He pears to have been very bold in his operations. His was carried off by an apoplectic stroke, in 1645. His principal work is entitled, "Armamentarium Chirurgicum," with plates of the instruments; which was published after his death, and has passed through many editions, and been translated into most European learnesses."

SURF. Furfurs. Small exfoliations of the cuti-cle, which take place after some eruptions on the skin, a new cuticle being formed underneath during the exfoliation.

See Scorbutus. SCURVY.

SCURVY. See Scorbutus.
Scurvy-grass. See Cochlearia officinalis.
Scurvy-grass, lemon. See Cochlearia officinalis.
Scurvy-grass, Scotch. See Compolivities soldanella.
SCUTIFORM. (Scutiformis; from oxvoro, schield, and adog, resemblance.) Shield-like. See Thyrod

SCUTTIORM CARTILAGE. See Thyroid cartilage. SCUTELLA. A little dish or cup. Applied to the round, flat, or shallow fruit, of the calyculate alga,

round, flat, or shallow Irun, or the seen in Lichen stellaris.

SCUTELLA'RIA. (From scutella, a small dish or saucer, apparently in aflusion to the little concave appendage which crowns the callys. Some have thought it to be more directly derived from scutellum, a little shield, to which they have compared the shield.) The name of a genus of plants in the Linnean system. Class, Didynamia; Order, Gymnospermia.

Scutellaria Galericulata. The systematic name of the skull-cap. Tertianaria. The Scutellaria, foliis of the skull-cap.

of the skull-cap. Tertianaria. The Scutellaria, folisis cordate lanceolatis, crenatis; floribus axillaribus, of Linneus, which is common in the hedges and ditches of this country. It has a bitter taste and a garlic of this country. It has a bitter taste and a garlic smell, and is said to be serviceable against that species ague which attacks the patient every other day

Dry hard excrement,

SCY BALUM. Σκυβαλα rounded like nuts or marbles.
Scythicus. (From Scyth. Scyrmicus. (From Scythia, its native soil.) An epithet of the liquorice root, or any thing brought from

SEA. Mare. The air of the sea, the motion of the vessels, the exhalation from the tar as well as the water of the ocean, and its contents all come under the

attention of the physician.

1. Sea-air is prescribed in a variety of complaints, being considered as more medicinal and salubrious than being considered as more medicinal and salubrious than that on land, though not known to possess in its composition a greater quantity of oxygen. This is a most powerful and valuable remedy. It is resorted to with the happiest success against most cases of d bility, and particularly against scrofulous diseases affecting the external parts of the body. See Bath, cold.

2. Sea-sickness. A nausea or tendency to vomit,

2. Sta-Sierness. At masses of tendency to vomit, which varies, in respect of duration, in different persons upon their first going to sea. With some it continues only for a day or two; while with others it remains throughout the voyage. The diseases in which sea sickness is principally recommended are asthma

and consumption.

3. Sca-water. This is arranged among the simple saline waters. Its chemical analysis gives a proporsaline waters. Its chemical analysis gives a propor-tion of one of saline contents to about twenty-three and one-fourth of water; but on our shores it is not greater than one of salt to about thirty of water. Seawater on the British coast may therefore be calculated to contain in the wine pint of munited soda 186.5 grains, of munited magnesia fifty-one, of scientic six grains; total 243 one-half grains; or half an ounce and three and one-half grains of saline contents. The disorders for which the internal use of sea-water has been and may be resorted to, are in general the same for which all the simple saline waters may be used. The peculiar power of sea-water and sea-salt as a dis cutient, employed either internally or externally scrofulous habits, is well known, and is attended with considerable advantage when judiciously applied.

Sca-holly. See Eryngium. Sca-moss. See Fucus helminthocorton.

Sca-notes. See Fryng can.
Sca-notes. See Fucus helmithocorton.
Sca-ouk. See Fucus vesiculosus.
Sca-oukin. See Scilla.
SEA-SALT. Muriate of Soda. See Soda murias.
SEA-WAX. Maltha. A white, solid, tallowy-looking fusible substance, soluble in alkohol, found on

the Baikal lake, in Siberia. Sea-wrack. See Fucus vesiculosus.

Scaled carths. See Sigillata terra.
SEARCHING. The operation of introducing a metallic instrument through the urethra into the bladder for the purpose of ascertaining whether the patient

has the stone or not.

SEBACEOUS. (Sebaceus; from sebum, suet.) A term applied to glands, which secrete a suetty hu-

SEBACIC ACID. Subject to a considerable heat, 7 SEBACIC ACID. Subject to a considerable heat, 7 or 8 pounds of hogs lard, in a stoneware retort capable of holding double the quantity, and connect its beak by an adopter with a cooled receiver. The condensible products are chiefly fat, altered by the fire, mixed with a little acette and sebacic acids. Treat this product with boiling water several times, agitating the liquor, allowing it to cool, and decanting each time. Pour at last into the watery liquid, solution of acetate of lead in excess. A white flocculent precipators of the cool lead to the product of the cool lead to tate of sebate of lead will instantly fall, which must be tate of schate of lead will instantly fall, which must be collected on a filter, washed, and died. Put the schate of lead into a phial, and pour upon it its own weight of sulphuric and, diluted with five or six times its weight of water. Expose this phial to a heat of about 2129. The sulphuric acid combines with the oxide of lead, and sets the schacic acid at liberty. Filter the whole while hot. As the liquid cools, the sebacic acid crystall zes, which must be washed to free it completely from the adhering sulphuric acid. Let it be then dried at a gentle heat. then dried at a gentle heat.

The sebacic acid is modorous; its taste is slight, but The sebacic acid is inodorous; its taste is slight, but it perceptibly reddens litmus paper; its specific gravity is above that of water, and its crystals are small white needles of little coherence. Exposed to heat, it melts like fat, is decomposed, and partially evaporated. The air has no effect upon it. It is much more soluble in hot than in cold water; hence boiling water saturated with it, assumes a nearly solid consistence on cooling. Alkolubi dispetves it abundantly, at the ordinary tegum. Alkohoi dissolves it abundantly at the ordinary tempe-

With the alkalies it forms soluble neutral salts; but if we pour into their concentrated solutions, sulphuric, nitric, or muriatic acids, the sebacic is immediately deposited in large quantity. It affords precipitates with the acctates and nitrates of lead, mercury, and silver. Such is the account given by Thenard of this acid,

such is the account given by Thenard of this acid, in the third volume of his Traite de Chimie, published in 1815. Berzelius, in 1806, published an elaborate dissertation, to prove that Thenard's new sebacic acid was only the benzoic contaminated by the fat, from which however it may be freed, and brought to the state of common benzoic acid. Thenard takes no nostate of common tenzors and. Then ard takes no no-tice of Berzelius whatever, but concludes his account by stating that it has been known only for twelve or thirteen years, and that it must not be confounded with the acid formerly called sebacic, which possesses a strong disgusting ordour, and was merely acetic or muriaric acid; or fat which had been changed in some way or other according to the process used in the preparation.

SEBADILLA. Sec Covadilla. SEBATE. (Sebas; from sebum, suet.) The name mary.

in the neutral compound of the acid of fat, witha salifiable base (An Egyptian word.) See Cordia myza.

SECA LE. (Secale, t. neut. A name in Pliny, which some etymologists, among whom is De Theis, detive from the Celtie sogal. This, says he, comes from soga, a sickle in the same language, and thence sogas, sega, a siekie in the Latin appellation of all grain that is cut with a similar instrument. Those who have looked no farther milar instrument. Those who have looked no farther for an etymology than the Latin seco, to cut or mow, have come to the same conclusion.) 1. The name of a genus of plants in the Linnaansystem. Class, Triandria; Order, Digyma. Rye.

3. The common name of the seed of the Secale correale, of Linnaaus.

The systematic name of the SECALE GEREALE. The systematic name of the rye-plant. Rye-corn is principally used as an article of diet, and in the northern countries of Europe is employed for affording an ardent spirit. Rye-bread is common among the northern parts of Europe; it is less nourishing than wheat, but a sufficiently nutritive and wholesome grain. It is more than any other grain and wholesome grain. It is more than thy strongly disposed to acescency; hence it is liable to ferment in the stomach, and to produce purging, which

ment in the stomach, and to produce purging, wines people on the first using it commonly experience.

Secale cornerum. Secale cornicalatum; Clavius secaliums. Mutterkom kornzapfeu, of the Germans.

Ergot: Seigle ergote of the French. A black, curved, morbid excrescence, like the spur of a fowl, which is found in the spike of the Secale certage of Limneus, establishment. pound in the spike of the Secale cereate of Linneus, especially in hot climates, when a great heat suddenly succeeds to much moisture. The seed, which has this diseased growth, gives off, when powdered, an odour which excites sneezing, and thilates the nose, like to-bacco. It has a mealy, and then a rancid, nauseous, and biting taste, which remains a long time, and causes the mouth and fauces to become day; which sensation is not removed by watery fluids, but is soon relieved by milk. The cause of this excrescential discase in ryc appears to be an insect which penetrates the grain, feeds on its amytaceous part, and leaves its poison in the parenchyma: hence it is full of small foramina or perforations made by the insect

The secale commutum has a singular effect on the animal economy. The meal or flour sprinkled on a wound coagulates the blood, excites a heat and then a numbness in the part, and soon after in the extremities. Bread which contains some of it, does not ferment well, nor bake well, and is glutinous and nauseous. The bread when eaten produces intoxication, lassifude, The bread when caten produces intoxication, lassitude, a sense of something creeping on the skin, weakness of the joints, with convulsive movements occurring periodically. This state is what is called raphanic, and commissiones cerealist. Of those so affected, some can only breathe in an upright posture, some become manacal, others epilepin, or table, and some have a thirst not to be quenched; and livid eruptions and cutaneous ulcers are not uncommon. The disease continues ulcers are not uncommon. The disease continues from ten days to two or three mouths and longer. Those who have formication, pain, and numbness of the extremities in the commencement, generally lose the feeling in these parts, and the skin, from the fingers to the fore-arm, or from the toes to the middle of the tibia, becomes dry, hard, and black, as if covered with soot. This species of mortification is called Necrosis cerealis.

As a medicine, the secale cornutum is given internally to excite the action of the uterus in an atonic state of that organ, producing amenorrhea, &c. and during parturition. Given in the dose of ten grains, it soon produces a desire to make water, and the labour pains quickly follow; but it is a dangerous medicine, the

effect not being controllable.

The antidote to the ill effects produced in the mouth and fauces by eating bread which has this poison, is milk. Against the convulsions, vomits, saline purga-tives, clysters, submuriate of mercury as a purgative, are first to be given, and after the prime vie have been duly cleaned, stimulants of camphire, ammonia, and ather with opium. To the necrosis, rectified oil of turpentine is very beneficial in stopping its progress, and then warm stimulating fomentations and poultices.

[See pulvis parturiens. A.]
SECONDARY. This term denotes something that acts as second or in subordination to another. Thus, in diseases, we have secondary symptoms. Sec Pri-

Secondary fever. That febrile affection which arises after a crisis, or the discharge of some morbid matter, as after the declension of the small-pox or the

SECRETION. Secretio. "The generic name of secretion is given to a function, by which a part of the blood escapes from the organs of circulation, and diffuses itself without or within; either preserving its chemical properties, or dispersing after its elements have undergone another order of combinations.

The secretions are generally divided into three sorts; the exhalations, the follicular secretions, and the

glundular secretions.

Exhalations.-The exhalations take place as well within the body as at the skin, or in the mucous membranes; thence their divisions into external and in-

Internal exhalations .- Wherever large or small surfaces are in contact, an exhalation takes place; wherever fluids are accumulated in a cavity without any apparent opening, they are deposited there by exhalations: the phenomenon of exhalation is also manifested in almost every part of the animal economy. It exists in the serous, the synovial, the mucous membranes; in the cellular tissue, the interior of vessels, the adipose cells, the interior of the eye, of the ear, the parenchyma of many of the organs, such as the thymus, thyroid glands, the capsulæ suprarenales, &c. &c. by exhalation that the watery humour, the vitreous humour, the liquid of the labyrinth, are formed and renewed. The fluids exhaled in these different parts have not all been analyzed; among those that have been, several approach more or less to the elements of the blood, and particularly to the serum; such are the fluids of the serous membranes of the cellular tissue, of the chambers of the eye; others differ more from it, as the synovia, the fat, &c.

Serous exhalstion.—All the viscera of the head, of

the chest, and the abdomen, are covered with a serous membrane, which also lines the sides of these cavities, so that the viscera are not in contact with the sides, or so that the viscera are not in contact with the sides, or with the adjoining viscera, except by the intermediation of the same membrane; and as its surface is very smooth, the viscera can easily change their relation with each other, and with the sides. The principal circumstance which keeps up the polish of their surface is the exhabition of which they are the seat; a very thin fluid constantly passes out of every point of the membrane, and mixing with that of the adjoining parts, forms with it a humid layer that favours the frictions of the preser.

frictions of the organs.

It appears that this facility of sliding upon each other is very favourable to the action of the organs, for as soon as they are deprived of it by any malady of the serous membrane, their functions are disordered, and they sometimes cease entirely.

In the state of health, the fluid secreted by the serous membranes appears to be the serum of the blood, a

certain quantity of albumen excepted.

Serous exhalation of the cellular tissue.—This tissue, which is called cellular, is generally distributed through animal bodies; it is useful at once to separate and unite the different organs, and the parts of the organs. The tissue is every where formed of a great number of small thin plates, which, crossing in a thousand different ways, form a sort of felt. The size and arrangement of the plates vary according to the different parts of the body. In one place they are larger, thicker, and constitute large cells; in another, they are very narrow and thin, and form extremely small cells; in some points the tissue is capable of extension; in others, it is little susceptible of it, and presents a considerable resistance. But whatever is the disposition of the cellular tissue, its plates, by their two surfaces, exhale a fluid which has the greatest analogy with that of the serous membranes, and which appears to have the same uses; these are to render the frictions of the plates easy upon each other, and therefore to favour the reciprocal motions of the organs, and even the relative changes of the different parts of which they are composed

Fatty exhalation .- Independently of the serosity, a

fluid is found in many parts of the cellular tissue of a very different nature, which is the fat.
Under the relation of the presence of the fat, the cellular tissue may be divided into three sorts; that which contains it always, that which contains it some-

times, and that which never contains it. The orbit, the sole of the foot, the pulp of the fingers, that of the toes, always present fat; the subcutaneous cellular tissue, and that which covers the heart, veins, &c. present it often; lastly, that of the scrotum, of the eyelids, of the interior of the skull, never contain it.

The fat is contained in distinct cells that never communicate with the adjoining ones. It has been supposed, from this circumstance, that the tissue that contains, and that forms the fat, was not the same as that by which the serosity is formed; but as these fatty cells have never been shown, except when full of fat, this anatomical distinction seems doubtful. The size, the form, the disposition of these cells, are not less variable than the quantity of fat which they contain. In some individuals scarcely a few ounces exist, while in others there are several hundred pounds

According to the last researches, the human fat is composed of two parts, the one fluid, the other concrete, which are themselves compounded, but in dif-

ferent proportions, of two new proximate principles.

Synovial exhalations.—Round the moveable articu lations a thin membrane is found, which has much naming a time membrane is found, which has much analogy with the scrous membranes; but which, however, differs from them by having small reddish prolongations that contain numerous blood-vessels. These are called synovial fringes; they are very visible in the great articulations of the limbs. Internal exhalution of the eye.—The different hamours of the eye are also formed by exhalation; they are each of them sengences to remove the state of the sengence of t

are each of them separately enveloped in a membra..e that appears intended for exhalation and absorption.

The humours of the eye are, the aqueous humour, the formation of which is at present attributed to the the hydroid; the vitreous humour, secreted by the hydroid; the crystalline, the black matter of the choroid; and that of the posterior surface of the iris.

Bloody exhalations .- In all the exhalations of which we have spoken, it is only a part of the principle of the blood that passes out of the vessels; the blood itself appears to spread in several of the organs, and fill in them the sort of cellular tissue which forms their in their the sort of cellular tissue which forms their parenchyma; such are the cavernous bodies of the penis and of the clitoris, the urethra and the glans, the spicen, the mamilla, &c. The anatomical examination of these different issues seems to show that they are habitually filled with venous blood, the quantity of which is variable according to different circumstances, particularly according to the state of action or inaction of the organs. action or inaction of the organs.

Many other interior exhalations exist also, among those of the cavities of the internal ear, of the paen-chyma, of the thymus, of the thyroid gland; that of the cavity of the capsulae supravendes, &c.: but the fluids formed in these different parts are scarcely un derstood: they have never been analyzed, and their

uses are unknown.

External exhalations.—These are composed entirely of the exhalations of the mucous membranes, and of that of the skin, or cutaneous transpiration.

Exhalation of the nucous membranes.—There are two nucous membranes; the one covers the surface of the eye, the lachrymal ducts, the nasal cavities, the sinuses, the middle ear, the mouth, all the intestinal canal, the excretory canals which terminate in it; lastly, the larynx, the trachea, and the bronchia.

The other mucous membrane covers the organs of

generation and of the urinary apparatus.

Cutaneous transpiration.—A transparent liquid, of an odour more or less strong, salt, acid, usually passes through the innumerable openings of the epidermis See Perspiration. This liquid is generally evapo See Perspiration. This liquid is generally evaporated as soon as it is in contact with the air, and at other times it flows upon the surface of the skin. In the first case it is imperceptible, and bears the name of insensible transpiration; in the second it is called

Fillicular secretions .- The follicles are small hollow organs lodged in the skin or mucous membranes, and which on that account are divided into mucous and

The follicles are, besides, divided into simple and The simple mucous follicles are seen compound. upon nearly the whole extent of the mucous membranes, where they are more or less abundant; however, there are points of considerable extent of these membranes where they are not seen.

The bodies that bear the name of fungous papilla of the tongue the anaydalia, the glands of the cardin, the prostate, &c are considered by anatomists as collections of simple follicles. Perhaps this opinion is

not sufficiently supported.

not sunce any supported.

The fluid that they secrete is little known; it appears analogous to the nucous, and to have the same uses. In almost all the points of the skin, little openings exist, which are the orifices of small hollow organs, with membranous sides, generally filled with an al-buminous and fatty matter, the consistence, the colour, the odour, and even the savour of which are variable, according to the different parts of the body, and which is continually spread upon the surface of the skin. These small organs are called the follicles of the skin; one of them at least exists at the base of each

hair, and generally the hairs traverse the cavity of a follicle in their direction outwards.

The follicles form that mucous and fatty matter which is seen upon the skin of the crammin, and on that of the pavillion of the ear; the follicles also secrete the cerumen in the auditory canal; that whitish matter, of considerable consistence, that is pressed out of the skin of the face, in the form of small worms, is also contained in follicles; it is the same matter which, by its surface being in contact with the air, becomes black, and produces the numerous spots that are seen upon some persons' faces, particularly on the sides of the nose and cheeks.

The follicles also appear to secrete that odorous, whitish matter, which is always renewed at the ex-ternal surface of the genital parts.

By spreading on the surface of the epidermis, of the hair of the head, of the skin, &c., the matter of the follicles supports the suppleness and elasticity of those parts, renders their surface smooth and polished, favours their frictions upon one another. On account of its unctuous nature, it renders them less penetrable by humidity, &c.

Glandular Secretions .- The name of gland is given to a secreting organ which sheds the fluid that it forms the surface of a mucous membrane, or of the

skin, by one or more excretory glands.

The number of glands is considerable, the action of each bears the name of glandular secretion. There are six secretions of this sort, that of the tears, of the saliva, of the bile, of the pancreatic fluid, of the urine, of the semen, and lastly, that of the milk. We may add the action of the mucous glands, and of the glands

of Cowper.

Secretion of Tears.—The gland that forms the tears is very small; it is situated in the orbit of the eye, above and a little outward; it is composed of small grains, united by cellular tissues; its excretory canals, small and numerous, open behind the external angle of the upper eyelid: it receives a small artery, a branch of the ophthalmic, and a nerve, a division of the fifth nair.

pair.

In a state of health, the tears are in small quantity; the liquid that forms them is limpid, without odour, of a salt savour. Fourcroy and Vauquetin, who analyzed it, found it composed of much water, of some centesimals of mucus, muriate and phosphate of soda, and a little pure soda and lime. What are called tears, are not, however, the fluid secreted entirely by the lachryunal gland; it is a mixture of this fluid with the matter secreted by the conjunctive, and arghably with matter secreted by the conjunctiva, and probably with

The tears form a layer before the conjunctiva of the eye, and defend it from the contact of air; they facilitate the frictions of the cyclids upon the eye, favour the expulsion of foreign bodies, and prevent the action the expulsion of foreign bodies, and prevent the action of irritating bodies upon the conjunctiva; in this case the quantity rapidly augments. They are also a means of expressing the passions: the tears flow from vexation, pain, joy, and pleasure. The nervous system has therefore a particular influence upon their secretion. This influence probably takes place by means of the nerve that the fifth pair of cerebral nerves sends to the lacebrane light.

to the lachrymal gland.

Secretion of the Salwa.—The salivary glands are Secretion of the Sairva.— The sairvary guides are, the two parotide, situated before the ear and behind the neck, and the branch of the jaw; 2d, the submartheneck, and the branch of the jaw; 2d, the submartheneck, and the branch of the front of the body of this bone; 3d, lastly, the sublinguals, placed immedithis bone; 3d, lastly, the sublinguals, placed immedithis bone; 3d, lastly, the sublinguals, placed immedithis bone; 3d, lastly, the sublinguals, placed immedithing the submartheners. We are advertised the most dangerous consequences. We are advertised the most dangerous consequences. We are advertised the most dangerous consequences. We are advertised the most dangerous consequences are applied in the most dangerous consequences. We are advertised to the most dangerous consequences. We are advertised the most dangerous consequences. We are advertised the most dangerous consequences are also the most dangerous consequences. We are advertised the most dangerous consequences are advertised to the most dangerous consequences. We are advertised the most dangerous consequences are advertised to the most dangerous consequences. We are advertised the most dangerous consequences are advertised to the most dangerous consequences.

guals have several. All these glands are formed by the union of the granulations of different forms and dimensions; they receive a considerable quantity of arteries relatively to their mass. Several nerves are distributed to them, which proceed from the brain or the spinal marrow

The saliva which these glands secrete flows constantly into the mouth, and occupies the lower part of it; it is at first placed between the anterior and lateral part of the tongue and the jaw; and when the space is filled, it passes into the space between the lower lip, the cheek, and the external side of the jaw. deposited in the mouth, it mixes with the fluids se creted by the membranes and the mucous follicles.

Secretion of the Pancreatic Juice.—The pancreas is situated transversely in the abdomen, behind the stosituated transversely in the abdonien, belind the sto-mach. It has an excretory canal, which opens into the duodenum, beside that of the liver. The granulous structure of this gland has made it be considered a salivary gland; but it is different from them by the smallness of the arteries that it receives, and by not appearing to receive any cerebral nerve.

It is impossible to explain the use of the pancreatic

Secretion of the Bile .- The liver is the largest of all Secretion of the Bile.—The liver is the largest of all the glands; it is also distinguished by the singular circumstance among the secretory organs, that it is constantly traversed by a great quantity of venous blood, besides the arterial blood, which it receives as well as every other part. Its parenchyma does not resemble, in any respect, that of the other glands, and the fluid formed by it is not less different from that of the other glandular fluids.

The exerctory canal of the liver goes to the duode-num; before entering it, it communicates with a small membranous bag, called vesicula fellis, and on this account, that it is almost always filled with bile. Few fluids are so compound, and so different from the bleed, as the bile. It colour is greenish its taste.

Few fluids are so compound, and so different from the blood, as the bile. Its colour is greenish, its taste very bitter; it is viacous, thready, sometimes limpid, and sometimes muddy. It contains water, albumen, a matter called resinous by some chemists, a yellow colouring principle, soda, and some salts, viz. muriate, phosphate, and sulphate of soda, phosphate of lime and oxide of iron. These properties belong to the bile contained in the gall bladder. That which goes out directly from the liver, called kepafic bile, has never been analyzed; it appears to be of a less deep colour, less viscouse, and loss bitter than the cystic bile. The formation of the bile appears constant.

The liver receiving venous blood at the same time by

The liver receiving venous blood at the same time by The liver receiving venous blood at the same time by the vena porta, and arterial blood by the hepatic artery, physiologists have been very cager to know which of the two it is that forms the bite. Several have said that the blood of the vena porta, having more carbon and hydrogen than that of the hepatic artery, is more proper for turnishing the elements of the bite. Bichat has successfully contested this opinion; he has shown, that the quantity of arterial blood which arrives at the liver is more in relation with the quantity of bile formed that that of the venous blood; that the volume of the hepatic canal is not in proportion with the vena of the hepatic canal is not in proportion with the vena porta; that the fat, a fluid much hydrogenated, is secre-ted by the arterial blood, &c. He might have added, that there is nothing to prove that the blood of the vena porta has more analogy with the bile than the arterial blood. We shall take no part in this discussion; both opinions are equally destitute of proof. Besides, no-thing repels the idea, that both sorts of blood serve in the secretion. This seems even to be indicated by anatomy; for injections show that all the vessels of the liver, arrerial, venous, lymphatic, and excretory, com-municate with each other.

The bile contributes very usefully in digestion, but the manner is unknown. In our present ignorance relative to the causes of diseases, we attribute noxious properties to the bile, which it is probably far from

possessing.

Secretion of the Urine.-This secretion is different in several respects from the preceding. The liquid which results from it is much more abundant than that

In explaining the glandular secretions, physiologists have given full scope to their imagination. The glands have been successively considered as sieves, filters, as a focus of fermentation. Borden, and, more recently, Bichat, have attributed a peculiar motion and sensibihity to their particles, by which they choose, in the blood which traverses them, the particles that are fit to blood which traverses them, the particles that are fit to enter into the fluids that they scenete. Atmospheres and compartments have been allotted to them; they have been supposed susceptible of erection, of sleep, &c. Notwinstanding the efforts of many learned men, the truth is, that what passes in a gland when it acts, is entirely unknown. Chemical phenomena ne-cessarily take place.

Several secreted fluids are acid, while the blood is alkaline. The most of them contain proximate principles which do not exist in the blood, and which are formed in the glands, but the particular mode of these combinations is unknown.

We must not, however, confound among these suppositions upon the action of the glands, an ingenious conjecture of Dr. Wollaston. This learned man supposes that very weak electricity may have a marked influence upon the secretions. He rests his opinion upon a curious experiment, of which we will here give

an account.

Dr. Wollaston took a glass tube, two inches long, and three quarters of an inch diameter: he closed one of its extremities with a bit of bladder. He poured a litthe water into the tube, with 1-240 parts of its weight of muriate of soda. He wet the bladder on the outside, and placed it on a piece of silver. He then bent a zinc wire, so that one of its ends touched the silver, and the other entered the tube the length of an inch and the other entered the tube the eagen of an include In the same instant the external face of the bladder gave indications of the presence of pure soda; so that, under the influence of this very weak electricity, there was a decomposition of muriate of soda, and a passage of the soda, separated from the acid, through the bladder. Dr. Wollaston thinks it is not impossible that something analogous may happen in the secretions; but, before admitting this idea, many other proofs are necessarv

Several organs, such as the thyroid and thymus bo-dies, the spleen, the supra-renal capsules, have been called glands by many anatomists. Professor Chaus-sier has substituted for this denomination that of the glandiform ganglions. The use of these parts is en-tirely unknown. As they are generally more nume-rous in the fectus, they are supposed to have important functions, but there exists no proof of it. Works of physiology contain a great many hypotheses intended to explain their functions." - Magendie's Physiology.

to explain their functions."—Magenaics rhystology.
SECTIO CESAREA. See Cussarian operation.
SECTIO FRANCONIA. See Lithibiomy.
SECUNDINES. The after-birth, and membranes
which are expanded from its edge, and which form a complete involucrum of the fætus and its waters, go

compiete involucium or time tietus and its Waters, go under the term of secundines. See Placenta.

SECUNDUM ARTEM. According to art. A term frequently used in prescription, and denoted by the letters S. A., which are usually affixed, when the making up of the recipe in perfection requires some uncommon core and detreit.

care and dexterity.

SECUNDUS. Applied by hotanists to leaves and parts of the fructification which are unilateral, all leaning towards one side; as the leaves and flowers of

the Convallaria majalis.

SECURIDACA. (From securis, an axe: so called because its leaves resemble a small axe.) See Hyoscy-

SEDATIVE. IVE. (Sedativus; from sedo, to ease or Sedantia. Medicines which have the power SEDATIVE. (Setativas, from seas, in case of assuage.) Sedantia. Medicines which have the power of diminishing the animal energy, without destroying life. They are divided into sedativa soprofica, as opium, papaver, hyoscyamus; and sedativa refrigerantia, as neutral salts, acids, &c.
Sedative salt. See Boracic acid.
SEDENTARIA OSSA. The bones on which we sit.

The os coccygis and ischia.

SEDGE. See Iris pseudacorus.

SEDIMENT. The heavy parts of liquids which fall

to the bottom.

to the bottom.

Sediment, lateritious. See I.ateritious sediment.

SEDLITZ. Seydschutz. The name of a village
of Bohemia, in the circle of Saartz, where Hoffman
discovered a simple mineral water, Aqua Sedlitziana.

From chemical analysis it appears, that it is strongly impregnated with sulphate of imagnesia or Epeom salt, and it is to this, along with, probably, the small quantity of muriate of magnesia, that it owes its bitter and saline taste, and its purgative properties. The diseases in which this water is recommended are, crudities of the stomach, hypochondriasis, amenorrhea, and the anomalous complaints succeeding the cessation of the catamenia, œdematous tumours of the legs in literary men, hæmorrhoidal affections, and scorbutic erup-

SE DUM. (From sedo, to assuage: so called because it allays inflammation.) The name of a genus of plants in the Linnaran system. Class, Decandria; Order, Pentagynia.

SEDUM ACRE. Illecebra; Vermicularis; Piper mu-rale; Sedum minus. Wall-pepper; Stone-crop. The plant thus called is, in its recent state, extremely acrid, like the hydropiper; hence, if taken in large doses, it acts powerfully on the primæ viæ, proving both emetic and cathartic; applied to the skin as a cataplasm, it frequently produces vesications and erosions. Bor-haave therefore imagines, that its internal employment must be unsafe; but experience has discovered, that a decoction of this plant is not only safe, but of great efficacy in scorbutic complaints. For which purpose, a handful of the herb is directed, by Below, to be boiled in eight pints of beer, till they are reduced to four, of which three or four ounces are to be taken every, or which three or lour ounces are to be taken every, of every other morning. Milk has been found to answer this purpose better than beer. Not only ulcers simply scorbulic, but those of a scroulous or even cancerous tendency, have been cured by the use of this plant; of which Marquet relates several instances. He likewise found it media as are event instances. found it useful as an external application in destroying fungous fiesh, and in promoting a discharge in gan-grenes and carbuncles. Another effect for which this plant is estcemed, is that of stopping intermittent fevers.

SEDUM LUTEUM MURALE. Navel-wort.

SEDUM MAJUS. See Sempervivum tectorum.
SEDUM MINUS. See Sedum acre.
SEDUM TELEPHIUM. The systematic name of the
orpine. Faba crossa; Telephium; Fubaria crassula;
Anacampseros. The plant which bears these names in various pharmacopæias, is the Sedum-foliis planiusculis serratis, corymbo folioso, caule erecto, of Lin næus. It was formerly ranked as an antiphlogistic, but

neus. It was formerly land.

NEED. See Semen.

Seed ressel. See Pericarpium.

SEEING. See Pisson.

SEIGNETTE'S SALT. A neutral salt: first prepared and made known by Peter Seignette, who lived at Rochelle, in France, towards the end of the seventeenth seed.

See Sada tartarizata.

SELENITES. (From σεληνη, the moon.) 1. Sparry gypsum, a sulphate of lime.

2. A white stone having a figure on it resembling a

SELENIUM. (From σεληνη, the moon: so called om its usefulness in lunacy.) 1. A kind of peony. from its usefulness in lunacy.) 1. A kind of peony.

2. A new elementary body extracted by Berzeliua

2. A new elementary body extracted by Berzenus from the pyrites of Fahlum, which, from its chemical properties, he places between sulphur and tellurium, though it has more properties in common with the former, than with the latter substance.

SELF-HEAL. See Prunctla.

SELINE. (From achypn, the moon; because they are opake, and look like little moons.) A disease of the prile is which white goods no consciously seen the

the nails, in which white spots are occasionally seen in their substance

SELINIC ACID. Acidum sclinicum. If selinium be heated to dryness it forms with nitric acid, a volatile and crystallizable compound, called selinic acid, which unites to some of the metallic oxides producing

salts, called seleniates.

salts, called setenates.
SELI'NUM. (The ancient generic name of Theophrastus and Dioscorides, whose Σελιον is said to be
derived from πορα το εν ελει φνεσθαι, on account of its
growing in mud; whence Homes's ελεοθρεπ']ον σελινον.
De Theis says, that setinum is derived from σεληνη,
the moon, because of the shape of its growing seeds; and that it is the foundation of many other compound names of umbelliferous plants among the Greeks, as ορεοσελινον, πετροσελινον, δες.) The name of a genus of plants. Class, Pentandria; Order, Digynia. SELLA. (Sella, quasi sedda; from sedes, to sit.)

SE'LLA TURCIOA. (So called from its supposed re-SE'LLA TURCICA. (So called from us supposed to semblance to a Turkish saddle.) Ephippium. A cavity in the sphenoid bone, containing the piuntary gland, currounded by the four clinoid processes.

SELTZER. The name of a place in Germany, Neider Seltzer, about ten miles from Frankfort on the supposed place in germany, and supposed place in germany.

Mayne, where a saline mineral water rises, which is slightly alkaline, highly acidulated with carbonic acid, containing more of this volatile principle than is sufficient to saturate the alkali, and the earths which it holds in solution. It is particularly serviceable in relieving some of the symptoms that indicate a morbid affection of the lungs; in slow hectic fever, exanthematous eruptions of the skin, foulness of the stomach, bilious vomiting, acidity, and heartburn, spasmodic pains in any part of the alimentary canal, and bloody or highly offensive stools. On account of its property in relieving spasmodic pains, and from its rapid determination to the kidneys, and perhaps its alkaline contents, it has been sometimes employed with great advantage in diseases of the urinary organs, especially those Mayne, where a saline mineral water rises, which is tage in diseases of the urinary organs, especially those that are attended with the formation of calculus. A large proportion of the Seltzer water, either genuine or artificial, that is consumed in this country, is for the relief of these disorders. Even in gonorrhea, either simple or venereal, Hoffman asserts, that advantage is to be derived from this medicine. The usual dose is from half a pint to a pint. SEMECA'RPUS.

Rail a pint to a pint.

SEMECA'RPUS. (From σημετω, to mark, and καρπος, a fruit: a name evidently derived from the use
that is made of its nut in the East indica to mark table
linen and articles of apparel.) The name of a genus
of plants, Class Pentandria; Order, Trigynia.

SEMECARPUS ANGLARDUM. The marking nut-tree.
The systematic name, according to some, of the tree
which is supposed to afford the Malacca bean. See

Avicenna tomentosa.

SEMEIO'SIS. (From σημειοω, to notify.) See Se-

SEMEN. (Somen, inis. n.; sero, to sow.) A. The seed or prolific liquor of animals secreted in the testicles, and carried through the epididymis and vas deferens into the vesiculæ seminales, to be emitted subcoitu into the female vagina, and there, by its aura, to penetrate and impregnate the ovulum in the ovarium.

In castrated animals, and in cunuchs, the vesiculae seminales are small, and contracted; and a little lymphatic liquor, but no semen, is found in them. The semen is detained for some time in the vesiculae seminales, and rendered thicker from the continual absorp-tion of its very thin part, by the oscula of the lym-phatic vessels. In lascivious men, the semen is somephantic vessels. In laseryous men, the senior is some times, though rarely, propelled by nocturnal pollution from the vesiculæ seminales, through the ejaculatory ducts (which arise from the vesiculæ seminales, per-forate the urethra transversely, and open themselves by narrow and very nervous mouths at the sides of the court callinginging. In the urethra, and from it to by narrow and very nervous mouths at the sides of the caput gallinaginis), into the urethra, and from it to some distance. But in chaste men, the greatest part is again gradually absorbed from the vesiculæ seminales through the lymphatic vessels, and conclitates strength to the body. The smell of semen is specific, heavy, to the body. The smell of sement is able. The same affecting the nostrils, yet not disagreeable. The same odour is observed in the roots of the orchis, the juli of the same of many plants. The smell cheanuts, and the anthere of many plants. The smell of the semen of quadrupeds, when at heat, is so pene-trating, as to render their flesh feetid and useless, unless castrated. Thus the flesh of the stag, tempore coitus, is unfit to eat. The taste of semen is fatuous, and somewhat acrid. In the testes, its consistence is thin and diluted; but in the vesicules seminales, vised, dense, and rather pellucid; and by venery and debility it is rendered thinner. it is rendered thinner.

The greatest part of the semen part swims on

Specific gravity. The greatest part of the semen sinks to the bottom in water, yet some part swims on its surface, which it covers like very fine threads mutually connected together in the form of a cobweb.

Colour. In the testicles it is somewhat yellow, and in the vesiculæ seminales it acquires a deeper hue. That emitted by pollution or coition, becomes white from its mixture with the whitish liquor of the prostate gland during its passage through the urethra. people who labour under jaundice, and from the abuse of saffron, the semen has been seen yellow, and, in an atrabilary young man black.

Quality. Semen, exposed to the atmospheric sir, loses its pellucidity, and becomes thick, but after a few hours it is again rendered more fluid and pellucid than it was immediately after its emission. This phenomenon cannot arise from water or oxygen attracted from the sir. At health it denoting the six and according to the six of the six At length it deposites phosphate of lime, and forms a corneous crust.

Experiments with semen prove, that it turns the syrup of violets green, and dissolves earthy, neutral, and metallic saits. Fresh semen is insoluble in water, until it tallie saits. Fresh seinen is insoluble in water, until it has undergone the above changes in atmospheric air. It is dissolved by alkaline salts. By æthereal oil it is dried into a pellucid pellicle, like the cortex of the brain. It is dissolved by all acids, except the oxymuriatic, by which it is coagulated in the form of white flakes.

It is also acted upon by alkohol of wine.

malcula are observed in it, which appear to have a malcula are observed in it, which appear to have a round head and a long tail; these animalcula move with considerable rapidity; they seem to fly the light, and to seek the shade. 6. The odorous principle, which files off immediately from fresh semen. It appears to consist of a peculiar vital principle, and by the ancients was called awra seminis.

Use. 1. Emitted into the female vagina, sub coits, it possesses the wonderful and supendous power of impregnating the ovulum in the female ovarium. The address principle, or area susemptica only appears to

impregnating the ovulum in the female ovarium. The odorous principle, or aura spermatica only, appears to penetrate through the cavity of the uterus and Pallopian tubes to the female ovarium, and there to impregnate the albuminous latex of the mature ovulum by its vital power. The other principles of the semen appear to be only a vehicle of the seminal aura. 2. In chaste men, the semen returning through the lymphatic vessels into the mass of the blood, gives strength to the body and mind; hence the bull is so fierce and brave, the castrated ox so gentle and weak; hence every animal languishes post contam; and hence tabes dersalis from onanism. 3. It is by the stimulus of the semen absorbed, at the age of puberty, into the mass semen absorbed, at the age of pubcrty, into the mass of the humours, that the beard and hair of the pubes,

of the humours, that the beard and hair of the pubes, but in animals, the horns, are produced; and the weeping voice of the boy changed into that of a man.

B. The seed of plants or nucleus formed in the germen of a plant, for the purpose of propagating its species, the sole "end and aim" of all the organs of fructification. Every other part is in some manner subservient to the forming, perfecting, or dispersing of these.

A seed consists of several parts, some of which are more essential than others, viz.

more essential than others, viz.

1. The hitum, or scar.

2. The funiculus umbilicalis, or filament, by which the immature seed is connected to the receptacle.

3. The testa, or tunica seminis.

4. The seed lobes, or cotyledons. These parts are beautifully seen by macerating the seeds of a kidney or other bean, or gourd, in water.

The less essential parts are,

1. The artilus.

2. The pappus.

5. The ala.

The cauda

From the difference in the form, surface, situation, and number, rise the following distinctions of seeds.

Semina arillata; as in Jasminum. Paposa; as in Leontodon taraxacum. Caudata; as in Clematis vitalba.

Calyculata, covered with a bony calyx; as in Cois lachryma.

- Alata; as in Bignonia.

  Hamosa, furnished with one or three hooks; as in Daucus muricatus.
- 7. Lanata, covered with wool; as in Bombaz, Goo-7. Lanala, covered with wool; as in Bom sipium, and Anemone hortensis.
  8. Rotuda; as in Pisum, and Brassica.
  9. Rotunda-compressa; as Erroum lens.
  10. Oblonga; as in Boerhavia diffusa.
  11. Conica; as in Bellium.
  12. Orata; as in Quercus robur.
  13. Triquetra; as in Rheum, and Rumez.
  14. Lanceolata; as in Frazinus.
  15. Acuminata; as Cucumis sativus.
  16. Reniformia; as in Phaseolus.

17. Aculeata; as Ranunculus arvensis.

18. Cochlenta; as in Salsola.

18. Cochicuta; as in Satsota.

19. Cymbiformia; as sin Calendula officinalis.

20. Linearia; as in Crucianella.

21. Aristata; as in Holeus saccharatus.

22. Echinata; as in Verbena lapulacea.

23. Hiepida; as Daucus carota.

24. Hirsuta; as in Scandiz trichosperma.

Muricata; as Ranunculus parviflorus.

Muricata; as Kanunculus parvistorus. Glabra; as in Galuum montanum. Rugosa; as in Lithospermum arvense. Callosa; as în Citrus medica. Lapidea; as in Lithospermum. Colorata; as in Charophyllum aureum. Striata; as in Conum maculatum. Sulcata; as in Scandiz odorata.

31.

Transversim sulcatu; as Picris

33. Transversim succatu; as Picris.
34. Nuda; as in the Gynnospermial plants.
35. Tecta; as in Angiospermial plants.
36. Nidulantia, adhering to the external surface; as

in Fragaria vesca.
37. Pendula, suspended by a filament external to the

seed vessel; as in Magnolia grandiflora.
38. Pauca, when few in number.

39. Plurima, many; as in Papaver.
The parts of a seed when germinating are,

Cotyledones.

Corculum. The variety of forms of seeds are not without their uses, and the various modes by which seeds are dispersed, cannot fail to strike an observing mind with admiration. "Who has not listened," says Sir James persed, cannot tall to strike an observing mind with admiration. "Who has not listened," says Sir James Smith, "in a calm and sunny day, to the crackling of furze bushes, caused by the explosion of their little clastic pods; nor watched the down of innumerable seeds floating on the summer breeze, till they are overtaken by a shower, which, moistening their wings, stops their further flight, and at the same time accomplishes its final purpose, by immediately promoting the germination of each seed in the moist earth? How little are children aware, as they blow away the seeds of dandelion, or stick burs, in sport, on each other's clothes, that they are fulfilling one of the greatest ends of nature. Sometimes the calyx, beset with hooks, forms the bur; sometimes the calyx, beset with hooks, forms the bur; sometimes hooks encompass the fruit itself. Pulpy fruits serve quadrupeds and birds as food, while their seeds, often small, hard, and indigestible, pass uninjured by them through the intestines, and are deposited far from their original place of growth, in a condition peculiarly fit for vegetation. Even such seeds as are themselves eaten, like the various sorts of na condition peculiarly in the vegetation. Even such seeds as are themselves eaten, like the various sorts of nuts, are hoarded up in the cracked ground, and occasionally forgotten, or the earth swells and encloses them. The ocean itself serves to waft the larger kinds of seeds from their native soil to far distant

SEMEN ADJOWAEN. A seed imported from the East, of a pleasant smell, a grateful aromatic taste, somewhat like savory. It possesses exciting, stimulatine, and caroninative virtues, and is given in the East in mervous weakness, dyspepsia, flatulency, and hearthurn.

SEMEN ADAVE. An East Indian seed, exhibited

there in atonic gout.

SEMEN CONTRA. See Artemisia santonica

SEMEN SANCTUM. See Artemisia santonica.
SEMI. (From \$\pmu(\text{to}\) pall.) Semi, in composition, universally signifies half; as semicupium, a half-bath, or bath up to the navel; semilunaris, in the shape of a

SEMICIRCULAR. Semicircularis. Of the shape

of half a circle.

SEMICIRCULAR CANALS. These canals are three in number, and take their name from their figure. They belong to the organ of hearing, and are situated in the petrous portion of the temporal bone, and open into the vestibulum.

SEMICU'PIUM. A half-bath, or such as receives

only the hips, or extremities. SEMICYLINDRACEUS. Semicylindrical; flat on one side, round on the other, as the leaves of the Conchium gibbosum

SEMI INTEROSSEUS INDICIS. See Abductor indicis

SEMILUNAR. Semilunaris. Half-moon shaped. SEMILUNAR VALUES. The three valves at the beginning of the pulmonary artery and aorta are so termed, from their half-moon shape.

SEMI-MEMBRANO'SUS. Ischio-populiti femoral, of Dumas. This muscle arises from the outer surface of the tuberosity of the ischium, by a broad flat ten-don which is three inches in length. From this tendon it has gotten the name of semi-membranosus. It then begins to grow fleshy, and runs at first under the long head of the biceps, and afterward between that mus cle and the semi-tendinosus. At the lower part of the thigh it becomes narrower again, and terminates in a short tendon, which is inserted chiefly into the upper and back part of the head of the tibia, but some of its fibres are spread over the posterior surface of the capsular ligament of the knee. Between this cupsular ligament and the tendon of the muscle, we find a small bursa mucosa. The tendons of this and the last-described muscle form the inner ham-string. This muscle bends the leg, and seems likewise to prevent the capsular ligament from being pinched.

SEMI-NERVOSUS. See Semitendinosus.
SEMINIS CAUDA. See Cauda seminis.
SEMINIS EJACULATOR. Bee Accelerator urina.

Semiopal. See Opal.

SEMI-ORBICULARIS ORIS. See Orbicularis oris. SEMIO'TICE. (From onucion, a sign.) Comeiosis. That part of pathology which treats on the signs of

discases.

Semi-spinalis cold. Semi-spinalis sive transverso-spinalis cold., of Winslow; Spinalis cervicis, of Albinus; Spinalis cold., of Douglas; Transversalis cold., of Cowper; and Transverso-spinal, of Dumas. A muscle situated on the posterior part of the neck, which turns the neck obliquely backwards, and a little to one side. It arises from the transverso processes of the uppermost six vertebrae of the back by as many distinct tendous ascending obliquely under the composition. distinct tendons, ascending obliquely under the com-plexus, and is inserted into the spinous processes of all the vertebra of the neck, except the first and last.

SEMI-SPINALIS DORSI. Semi-spinalis externus seu transverso-spinalis dorsi, of Winslow. Semi-spina transperso-spinalis aersi, of Whistow. Semi-spinal tus, of Cowper; and Transperso-spinal, of Dumas. A muscle situated on the back, which extends the spine obliquely backwards. It arises from the transverse processes of the seventh, eighth, ninth, and tenth vertebræ of the back, by as many distinct tententh vertebra of the back, by as many tenths, dons, which soon grow fleshy, and then become tendinous again, and are inserted into the spinous processes of all the vertebra of the back above the eighth, and into the lowermost of the neck, by as many ten-

SEMI-SPINALIS EXTERNUS. See Semi-spinalis dorsi.

SEMI-SPINATUS. See Semi-spinalis dorsi.
SEMI-TENDINOSUS. This muscle, which is the semi-nervosus, of Douglas and Winslow; and Ischio-cretitibial, of Dumas, is situated obliquely along the back part of the thigh. It arises tendinous and fleshy from part of the tingh. It arises tendinous and fleshy from the inferior, posterior, and outer part of the tuberosity of the ischium, in common with the long head of the biceps cruris, to the posterior edge of which it continues to adhere, by a great number of oblique flores, for the space of two or three inches. Towards the lower that the contract in t part of the os femoris, it terminates in a round tenpart of the os femors, it terminates in a round ten-don, which passes behind the inner condyle of the thigh bone, and, becoming flat, is inserted into the upper and inner part of the ridge of the tibia, a little below its tuberosity. This tendon sends off an aponeurosis, which helps to form the tendinous fascia that covers the muscles of the leg. This muscle assists in bend-ing the late and at the same time draws it a little to. ing the leg, and at the same time draws it a little in-

SEMPERVIRENS. Evergreen. Applied to leaves which are permanent through one, two, or more winters, so that the branches are never stripped; as the

y, fir, laurel, bay, &c. SEMPERVI'VUM. yy, nr., iauret, day, &c.

SEMPERVIVUM. (From semper, always, and izo, to live: so called because it is always green.)

The name of a genus of plants in the Linean ystem. Class, Dodecandria; 'Order, Polygynia.

2. The pharmacoporial name of some plants.

SEMPERVIVUM ACRE. The stone-crop is occasionally

so termed. See Cedum acre.

SEMPERVIVUM TECTORUM. The systematic name of the houseleek. Cedum majus; Eonion; Aizoum; Aizoon; Barba jovis. Houseleek, or sengreen. The leaves of this plant have no remarkable smell, but discover to the taste a mild subacid austerity; they are frequently applied by the vulgar to bruises and old

EENAC, John, was norm in cascony, about me-close of the seventeenth century. He is stated to have received the degree of doctor at Rheims, and that of bachelor of physic at Paris. He was a man of pro-found erudition, united with great modesty; and by his industry acquired much experience. His merits procured him the favour of Louis XV, who appointed him his consulting, and afterward his chief physician, which office the retained till his death in 170. He was which office he retained till his death in 1770. which office he retained till his death in 1770. He was also a member of the Royal Academy of Sciences at Paris, and of the Royal Society of Nancy. He left some works, which will probably manutain a lasting reputation, particularly his tienties on the Structure, Function, and Diseases of the Heart. An edition of Heister's Anatomy, with some interesting Observations, was published by him when young. A paper on Drowning, in the Memoirs of the Academy of Sciences children extra expressions and the recognitive certain expressions and the recognitive certain expressions and the recognitive certain expressions. Sciences, refuting certain erroneous opinions respecting the Cause of Death, and the Treatmen founded upon them, is also due to him; as well as some other minor publications

SENECIO. (Senecio; from senesco, to grow old: so called because it has a grayish down upon it, like

the beard of old men.)

1. The name of a genus of plants in the Linnman stem. Class, Syngenesia; Order, Polygamia susystem.

perfua.

2. The pharmacopæial name also of the groundsel.

See Senecio vulgaris.

SENSCIO JACOREA. The systematic name of the Jacobsa, of old writers. St. James's wort. Ragwort. The leaves of this common plant have a roughish, bitter, sub-acrid taste, extremely nauseous. A decotion is said to have been of infinite service in the cure of epidemic camp dysentery. A poultice made of the fresh leaves is said to have a surprising effect in removing pains of the joints, and to remove the sciatica, or hip gout, in two or three applications when ever so violent. The root is of an adstringent nature. A decoction of it was formerly good for wounds and

SENECIO MADRASPATANUS. See Senecio pseudo-

Senecto Perudo-China. China supposita; Senecio madraspatanus. Bastard China. It grows in Malabar. The root greatly resembles the China root in appearance and qualities.

Senecio vulgaris. Erigerom; Scnecio; Erigeron. Groundsel. This very common plant is frequently applied bruised to inflammations and ulcers, as a refrigerant and antiscorbutic.

SENECTA ANGUIUM. The cast skin of a serpent; its

decoction is said to cure deafness.

SENECTUS. See Age.

[Sexeca oil. See Genessee oil.]

SE'NEGA. (So called because the Seneca or Sene-SE NEGA. (So called because the Seneca or Senegaw Indians use it against the bite of the rattlesnake.)
See Polyg ala senega.
Senegal gum. See Mimosa senegal.
Senegam milknort. See Polygula senega.
SE NEKA. See Senega.
SENEKA. See Senega.
SENREEN. See Sempervivum tectorum.
SENNA. (From senna, an Arabian, word, signifying acute: so called from its sharp-pointed leaves.)

Cassia senna.

E CASSIG SCHMA.

SENNA ALEXANDRINA. See Cassia senna.

SENNA ITALICA. Pee Cassia senna
SENNA PAUPERUM. Bastard senna, or milk-vetch.

SENNA SCORFIUM. The scorpion senna.

SENNA SCORPIUM CENTACTO SENNA.

SENNERTUS, DANIEL, was born at Breslaw in 572. He was sent to Wittemberg at the age of twenty-one, and exhibited such marks of talent, that every opportunity was afforded him of visiting the other ce lebrated universities of Germany. On his return in 1601, he received the degree of doctor, and the next year was appointed to a professorship of medicine. He distinguished himself greatly by his eloquence and sound knowledge, and his publications concurred in raising his fame, insomuch that he was consulted by patients from all parts of the world; towards whom he evinced great disinterestedness. The plague prevailed seven times at Wittemberg, while he was professor there, yet he never quitted his post, nor declined his services, even to the poorest sick : however, he was

SENAC, John, was born in Gascony, about the laome as a mere compiler; but his works are valuable, some as a mere compiler; but his works are valuable, as containing a full and clear epitome of ancient learning; and besides, display much judgment, and freedom, in criticising their doctrines, which indeed involved him in many controversies. He first introduced the study of chemistry at Wittenberg; and in his writings he maintained the propriety of admitting chemical as well as Galenical theories and remedies into modicine. medicine.

SENSATION. Sensatio. Sensation, or feeling, is the consciousness of a change taking place in any part, from the contact of a foreign body with the extremities of our nerves. The seat of sensation is in the pulp

of the nerves.

The impression produced on any organ by the action of an external body constitutes sensation. This sensation, transmitted by nerves to the brain, is perceived, that is, felt by the organ : the sensation then becomes perception; and this first modification implies, as must be evident, the existence of a central organ, to which impressions produced on the senses are conveyed. The cerebral fibres are acted on with greater or less force by the sensations propagated by all the senses influenced at the same time; and we could only acquire confused notions of all bodies that produce them, if one particular and stronger perception did not oblite-rate the others, and fix our attention. In this collective state of the mind on the same subject, the brain is weakly affected, by several sensations which leave no trace behind. It is on this principle that, having read a book with great attention, we forget the different sensations produced by the paper and character.

When a sensation is of short duration, the knowledge we have of it is so weak, that soon afterward there does not remain any knowledge of having experienced does not remain any knowledge of naving experienced it. In proportion as a sensation, or an idea, which is only a sensation transformed or perceived by the cerebral organ, has produced in the fibres of this organ a stronger or weaker impression, the remembrance of it becomes more or less lively and permanent. Thus we have a reminiscence of it, that is, call to mind that we have already been affected in the same manner; a memory, or the act of recalling the object of the sensa-

tion with some of its attributes, as colour, volume, &c. When the brain is easily excitable, and, at the same time, accurately preserves impressions received, it possesses the power of representing to itself ideas with all their connexions, and all the accessory circum-stances by which they are accompanied, of reproducing them in a certain degree, and of recalling an entire object, while the memory only gives us an idea of its qualities. This creative faculty is called imagination. When two ideas are brought together, compared, and their analogy considered, we are said to form a judgment; several judgments connected together constithe reasoning. Besides the sensations that are carried from the organs of sense to the brain, there are others, internal, that seem to be transmitted to it by a kind of sympathetic reaction. It is well known what uneasiness the affection of certain organs conveys to the mind, how much an habitual obstruction of the liver is connected with a certain order of ideas; these internal sensations are the origin of our moral faculties, in the same manner as impressions that are conveyed by the organs of sense are the source of intellectual faculties. We are not on that account to place the seat of the We are not on that account to place the sear of the passions of the mind in the viscera; it is only necessary to remember that the appetites, whence arise the passions, reside in their respective organs, and are a phenomenon purely physical, while passion consists, at the same time, in the intellectual exertion. Thus an accumulation of semen in the cavities that are embanded as a recognition for the cavities that are embanded. ployed as a reservoir for it, excites the appetite for venery, very distinct from the passion of love, although it may be frequently the determinate cause of it.

The senses may be enumerated under the following heads, viz. the sense of vision, hearing, smelling,

SENSIBILITY. Sensibilitas. That action of the brain by which we receive impressions, either from

within, or from without.

"What is said of sensation generally, is applicable to sensibility; for this reason, we only mention here that this faculty exerts itself in two ways very difressor there, ye in the never darked his period of the first, the phenomena happens, unknown at last a victim to that disease in 1637. Sennertus was a voluminous writer, and has been represented by the sensation. It is not enough that a body may act

apon one of our senses, that a nerve transmits to the a string: so called from the seven strings upon its leaf.) brain the impression which is produced-it is not enough that this organ receive the impression: in order that there may be really a sensation, the brain must perceive the impression received. An impression thus perceived is called, in *Ideology*, a Perception, or an Idea.

These two modes of sensibility may be easily verified upon ourselves. For example, it is easy to see that a number of bodies have a continual action upon our senses without our being aware of it: this depends in

senses without our being aware of it: this depends in a great measure upon habit.

Sensibility is infinitely variable: in certain persons it is very obtuse; in others it is very elevated; generally a good organization keeps between the extremes. Sensibility is vivid in infancy and youth; it continues in a degree something less marked until past the age of manhood; in old age it suffers an evident diminution; and very old persons appear quite insensible

nution; and very old persons appear quite insensible to all the ordinary causes of sensations."

All parts possessed of a power of producing a change, so as to excite a sensation, are called sensible; those which are not possessed of this property, insensible. To the insensible parts by nature belong all our fluids, the blood, bile, saliva, &c. and many of the solids, the hair, epidermis, nails, &c.; but the sensible parts are the skin, eyes, tongue, ear, nose, muscles, stomach, infectines, &c.

SENSO'RIUM. 'The organ of any of the senses. See Cerebrum

See Cerebrum.

SENSORUM COMMUNE. See Cerebrum.

SENSUS. (Sensus, ûs. m.; à sentiendo.) The

SENSUS. (Sensus, ûs. m.; à sentiendo.) The

Sensus sees are distinguished into external and internal.

The external senses are seeing, hearing, tasting, smelling, and feeling. The internal, imagination, memory,

ing, and feeling. The internal, imagination, memory, judgment, attention, and the passions. SENTICOSÆ. (From seatis, a brier.) The name of an order of plants in Linnaus's Fragments of a Natural Method, consisting of such as resemble the bramble, rose, &c.

SENTIENT. This term is applied to those parts which are more susceptible of feeling than others, as the contiant attenuities of the nerves, &c.

which are more susceptible of feeling than others, as the sentient extremities of the nerves, &c.

Sentis, a thorn; from its being prickly like a thorn. See Rosa canina.

Separator kitw. (From separo, to separate.) An instrument for separating the pericranium from the skull, and a chemical vessel for separating essential parts of liquids.

SEPIA. The name of a genus of fish, of the Class, Veraes; Order, Molusca. The cuttle-fish.

Sepia officinalis. Sepium; Pracipitans magnum. The cuttle-fish. The systematic name of the fish, the shell of which is a phosphate of lime, and is often mixed into tooth-powders.

SEPIA os. See Sepia officinalis. SEPIARIÆ. (From sepes, a hedge.) The name of An order of plants in Linneus's Fragments of a Natural Method, consisting of woody plants, which form a hedge-like appearance; the flowers are mostly a thy-SE'PIUM.

SEPTUM. See Sepia officinalis.
SEPTARIA. Ludi helmontii. Spheroidal concretions that vary from a few inches to a foot in diameter. tions that vary from a few inches to a foot in diameter. When broken in a longitudinal direction, the interior of the mass is observed intersected by a number of fiscures, sometimes empty, sometimes filled with calcareous spar. The body of the concretion is ferruginous marle. From these septaria is manufactured that excellent material for building under water, called Parke's cement, or Roman cement.

cement, or Roman cement.

Septemary years. Climacteric years. A period, or succession of years in human life, at which, important constitutional changes are supposed to take place; and the end of this period is therefore judged critical. This period is fixed at every seventh year. The grand climacteric is fixed at 63, and, passing that time, age, it is considered, may be protracted to 90. So general is this belief, that the passing of 60 generally gives much anxiety to most people.

SEPTICIL. Senticus: from armo, to putrefy.) Re-

anniety to most people. SEPTFOIL. See Tormentilla. SEPTIC. (Septicus; from σηπω, to putrefy.) Relating to putrefaction.
SEPTIFO'LIA. (From septem, seven, and folium, a leaf: so named from the number of its leaves.) Coralwort, or septioli toothwort.

SEPTINE'RVIA. (From septem, seven, and nervus,

Species of plantain.
SE'PTUM. A partition.
SEPTUM CEREBELLI. A process of the dura mater,

dividing the cerebellum perpendicularly into two prin cipal parts.

SEPTUM CEREBRI. The falciform process of the dura mater is sometimes so called. See Fulceform process. SEPTUM CORDIS. (Septum; from sepio, to separate.) The partition between the two ventrales of the heart.

SEPTUM LUCIDUM. Septum pellucidum. The thin and tender portion of the brain, dividing the lateral ventricles from each other.

SEPTUM NARIUM. Interseptum. The partition between the nostrils.

SEPTEM PALATI. The partition of the palate.
SEPTUM PALATI. The partition of the palate.
SEPTUM THORACIS. See Mediastinum.

SEPTUM THORACIS. See Mediastinum.
SEPTUM TRANSVERSIUM. See Diaphragm.
SERAPHAS. (From Serapia, a lascivious Idol: so called because it was thought to promote venery; or from the testiculated shape of its roots.) The name of a genus of plants in the Linuxan system. Class, Gynandria; Order, Diandria.
SERAPINUM. The gum-resin sagapenum is sometimes so called. See Sagapenum.
SERAPION, of Alexandria, lived about 280 years before Christ, and is affirmed by Celsus to have been the founder of the empiric sect of physicians; though others have attributed the origin of this sect to Phi-

others have attributed the origin of this sect to Phi-

linus.

SERAPION, John, an Arabian physician who lived between the time of Mesue and Rhazes, towards the middle of the ninth century, and is supposed to have been the first writer on physic in the Arabic language. Haly Abbas describes his writings as containing only the cure of diseases, without any precepts concerning the preservation of health, or relating to surgery: and they are frequently quoted by Rhazes. He often transcribes the remarks of Alexander Trailian, with whom the other Arabians appear to be little acquainted. Some confusion appears to exist respecting another Serapion, who is supposed to have lived 180 years later, and to have been the author of a work on the Materia Medica, entitled "De Medicamentistam simplicibus, quam compositis," in which authors are quoted, much posterior to Rhazes, Avenzoar for instance, so that it posterior to Rhazes, Avenzoar for instance, so that it must have been written towards the latter part of the must have be-eleventh century. eleventh CIIM. Silk.

SERICUM. Silk. A species of hairy pubescence of plants, which consists of a white shining silkiness:

of plants, which consists of a white shining silkiness: hence the leaves of the Potentilla anserina, Alchemilla slpina, &c. are called Folia sericea.

SERI PHIUM. (Seems to have been applied to this senue on account of the analogy in its habit and foliage with the Artemisia pontica of Pliny, called by the Greeks Espectov. The origin of this name may be traced to Seriphion, or, as it is now called, Serpho, an island in the Agean sea, the soil of which is of so dry and sterile a nature, as only to abound in plants of this rough kind.) The name of a genus of plants. Class Supremental. Play was of the property of the P Superessa; Order, Polygamia segregata.) Fix-weed. SERIS. Leos. Endive. SERNS-terminal Security and Security and Security SEROUS. (Serosus; from serum.) Relating to

THE REAL PROPERTY.

Serous apoplexy. See Apoplexia.
SERPENTA'RIA. (Serpentaria, c. f.: so called from the resemblance of the roots of the plant which first bore this name to the tail of the rattle-snake.) See Aristolochia serpentaria.

SERPENTARIA GALLORUM. See Arum dracunculus. SERPENTARIA HISPANICA. The viper's grass. See Scorzonera hispanica

SERPENTARIA VIRGINIANA. See Aristolochia ser-

SERPENTINE. A hard mineral, of which there are two kinds, the common and precious. The common is of a green colour, and is found in various mountains in Scotland and Ireland. Of the precious, there are two species; the splintery, found in Corrisca, and is cut into enuil boxes; and the concholdal, which is of a lack were nother. a leck green colour.

SERPENTUM LIGNUM. See Ophioxylum serpents-

SERPENTUM RADIX. See Ophiorrhiza mungos. SERPI'GO. (From serpo, to creep; because

creeps on the surface of the skin by degrees.) A ring-

worm, or tetter. See Herpes.

SERPY'LLUM. (From ερπω, to creep, or à serpendo, by reason of its creeping nature.) See Thymus serpyllum.

SERPYLLUM CITRATUM. See Thymus serpyllum. SERPYLLUM VULGARE MINUS. See Thymus serpyllur

SERRATA. (From serra, a saw: so called from

Sentral Tree (19th series a saw so called from its serrated leaves.) See Serratula SERRA TULA. (From serra, a saw: so called from its serrated leaves.) The name of a genus of plants in the Linnean system. Class, Syngenesia;

plants in the Lineman system. Class, Syngenesia; Order, Polygamia equatis.

SERRATULA ANARA. The systematic name of a species of saw-wort, which is said to cure agues.

SERRATULA ANEXESIS. The common creeping way-thirdle. Carduna arrensis; Carduna hamorrhoidalis; Circium arrense. This plant was formerly used in an application to resolve scirrhous tumours, and is now considered useful against niles.

considered useful against piles.

SERRA TUS. (From serra, a saw.) Serrated; a botanical term applied to leaves when the teeth are sharp, and resemble those of a saw, pointen the teeth are sharp, and resemble those of a saw, pointing towards the extremity of the leaf, as in Urtica; and the petals of the Dianthus arboreus, and Cystus polyfolius. Some leaves are called duplicato-serrate; these are doubly serrate, having a series of smaller serratures in-

doubly serrate, having a series of smaller serratures in-termixed with the larger; as in Campanula trachelium. Serratus anticus. See Pectoralis minor. Serratus magnus. (So called from its saw-like appearance.) Serratus major, of Winslow; and Costo basis copulaire, of Dunas. This muscle is so maned basi-scapulaire, of Dumas. This muscle is so named by Albinus. Douglas calls it Serratus major anticus, by Allinus. Douglas calls it Serratus major anticus, but improperly, as it is seated at the side, and not at the anterior part of the thorax. It is a broad fleshy muscle, of a very irregular shape, and is in part covered by the subscapularis, pectoralis, and latissimus dorsi. It arises, by fleshy digitations, from the eight superior ribs, and is inserted fleshy into the whole basis of the scapula internally, between the insertion of the rhomboides, and the origin of the sub-scapularis, being folded as it were, shout the two nucles of the scapula. boides, and the origin of the sub-scapularis, being folied, as it were, about the two angles of the scapular.
This muscie may easily be divided into two and even
three portions. The latter division has been adopted
by Winslow. The first of these portions is the thick
and short part of the muscle that arises from the first
and second ribs, and is inserted into the upper angle of
the scapula, its fibres ascending obliquely backwards.
The second portion arises from the second rib, behind
the origin of the first portion, and likewise from the
third and fourth ribs; this portion is thin and short,
and its fibres run nearly in a horizontal direction, to be
inserted into the basis of the scapula. The third, and
most considerable portion, is that which arises from
the fifth, sixth, seventh, and eighth ribs, and is inserted
into the lower angle of the scapula. The serratus maginto the lower angle of the scapula. The serratus manus serves to move the scapula forwards, and it The serratus mag chiefly by the contraction of this muscle that the shoulder is supported, when loaded with any heavy weight. ner is supported, when loaded with any neavy weight. The ancients, and even many of the moderns, particularly Douglas and Cowper, supposed its chief use to be to dilate the thorax, by elevating the ribs; but it can only no this when the scapula is forcibly raised.

Serratus major anticus. See Serratus magnus.

Serratus Minor anticus. See Pectoralis minor.

SERRATES MINOR ANTICES. See Pectoralis Minor.
SERRATES DOSTICUSINFERIOR. Dorso-lumbo-costal,
of Dumas. This is a thin muscle of considerable
breadth, situated at the bottom of the back, under the
middle part of the latissimus dorst. It arises by a
broad thin tendon, in common with that of the latimentioned muscle from the spinous processes of the two, and sometimes of the three inferior dorsal vertebræ, and from three, and sometimes four of those of the lumbar vertebræ. It then becomes fleshy, and, ascending a little obliquely outwards and forwards, divides ing a nute outquely durant and in a substantial into three, and sometimes four fleshy slips, which are inserted into the lower edges of the three or four inferior ribs, at a little distance from their cartilages. Its use seems to be to pull the ribs downwards, backwards, and outwards.

SERRATUS SUPERIOR POSTICUS. Cervici-dorso-cos tod, of Dumas. This is a small, flat, and thin muscle, situated at the upper part of the back, immediately under the rhomboidens. It arises, by a broad thin tendon, from the lower part of the ligamentum colli, system.

from the spinous process of the last vertebra of the new, and the two or three uppermost of the back, and is inserted into the second, third, fourth, and sometimes fifth ribs, by as many distinct slips. Its use is to expand the thorax, by pulling the ribs upwards and

SERRULATUS. Minutely serrate: applied to such saw-like edged leaves which have their teeth very fine;

as in Polygonum amphibium.

as in Polygonum ampunonin.

SERTUA. CAMPANA. See Trifolium melilotus.

SERUM. (From serus, late; because it is the remainder of the milk, after its better parts have been telepolicus.)

taken from it.)

1. Whey.

2. The yellow and somewhat greenish fluid, which separates from the blood when cold and at rest. See

Alum whey. SERUM ALUMINOSUM. A

SERUEM LACTIS. Whey.
SERVETUS, MICHAEL, was born at Villanueva, in Arragon, in 1509. He first studied the law at Toulouse; but his attention was drawn to theology by the louse; but his attention was drawn to theology by the discussions of the retormers; and as he was disposed to earry his dissent from the church of Rome even to a greater length, he judged it prudent to retire into Switzerland, where he published his opinions concerning the Trinity. He afterward went to study physic at the Trinity. He afterward went to study physic at Paris, where he took his degree, and then gave mathematical lectures, while he followed the profession of a physician: but having quarrelled with the faculty, and his "Apology" being suppressed by the paritament, he removed to Charlieu, and soon after to Vienna, at the invitation of the archibishop. Here he published a more full account of his religious opinions under a feigned name; but Calvin, the reformer, in whom he had confided betweet him to the magistrates so that had confided, betrayed him to the magistrates, so that he was thrown into prison, from which, however, he escaped. But as he was passing through Geneva, Calvin, whose treachery be did not suspect, procured Univin, whose treathery ne and hot suspect, procured his arrest, and a charge of biaspheny and heresy to be brought against him; of which, being found guitty, he was cruelly burnt alive in 1553. Servetus is numbered among those anatomists who made the nearest approach to the doctrine of the circulation of the blood in the work already mentioned, which led to his death. the passage of the blood through the lungs is clearly He was a man of great learning and unfeigned piety, and generally admired for his worth and talents, and the discoveries which he made in medicine, as well as other branches of knowledge.

Service-tree. See Sorbus aucuparia. SESAMOID. (Os sesamoideum: fr (Os sesamoideum; from σησαμη, and ειδος, likeness.) This term is ap-Indian grain, and ctôs; likeness.) This term is applied to the little bones, which, from their supposed general resemblance to the seeds of the sesamum, are called Ossa sesamoidea. They are found at the articulation of the great toes; and sometimes at the joints of the thumbs; now and then we meet with them upon Indian grain, and eldos, likeness.) the condyles of the os femoris, at the lower extremity of the fibula, under the os cuboides of the tarsus, &c.
They do not exist in the fœtus; but as we advance in life, begin first to appear in a cartilaginous state, and, at length, in adult subjects, are completely ossified. Age and hard labour seem to add to the number and size of these bones, and being most commonly found wherever the tendons and ligaments are most exposed to pressure from the action of the muscles, they are now generally considered by anatomists as the ossified parts of tendons and ligaments. These bones are usually smooth and flat on the side of the bone on which they are placed: their upper surface is convex, and, in general, adheres to the tendon that covers it, and of which it may, in some measure, be considered as a part. though their formation seems to be owing to accidental circumstances; yet, as the two at the first joint of the great toe are much larger than the rest, and are seldom great to are fund harger than the rest, and are setdom wanting in an adult, it would seem as if these bonces were of some utility; perhaps by removing the tendons farther from the centre of motion, and thus increasing the power of the muscles. The ossa seem moides of the great toe and thumb seem likewise to be of use, by forming a groove for lodging the flexor tendons secure from compression.

Seamoidal bones. See Sesamoid.
SE'SAMUM. (An Egyptian word.)
1. The name of a genus of plants in the Linnman.

2. The pharmacopæial name of the oriental sesa- | flattish, awl-shaped bristles, pointing in opposite direc-

mum. See Sesamum orientale.

SESAMUM ORIENTALE. Sesamum. this plant are in much esteem in South Carolina, where they are called oily grain; they are made into soups and puddings, after the manner of rice. Toasted over the fire, they are mixed with other ingredients, and stewed into a delicious food. The fresh seed affords a considerable quantity of a warm pungent oil, otherwise not unpalatable. In a year or two the pungency leaves it when the oil is used for salad, &c. The seeds of the Sesamum indicum are used in the same manner. The leaves are also used medicinally in some countries, being of a mucilaginous quality. [See Benne seed and enne oil. A.] SE'SELI. (Παρα τα σαωσαι ελλον; because it is

Set Sell. (Hapa ra cauche trace; resultary for young fawns.)

1. The name of a genus of plants. Class, Pentandria; Order, Digynia.

2. An old name of the hart-wort. See Laserpitium

SEELI CRETICUM. There is great confusion among the species of the seseli. The plant which bears this epithet in the pharmacopœias is the Tordylium officinale, of Linaeus. The seeds are said to be diuretic

Seculi Massiliense. See Seedi tortuosum.

The systematic name of the hart-wort of Marseilles. Seedi masiliense. The seeds of this plant are directed for medicinal use, and have a warm biting taste, and a greater degree of pungency than those of the Lascrpitium.

than those of the Lascrptum.

SESQUI. This word, joined with any number, weight, measure, &c. signifies one integer and a half; as sesqui granum, a grain and a half.

SESSILIS. (Sessitis, that sitteth, as it were.) Sessile. This term is applied to many parts of plants, as flowers, leaves, and parts of the fructification, and implies that they are without footstalk, flowerstalk, or what often supports them: hence, flores sessilis, as in Centaurea calcipirapa; folia sessilia, as in Pinguicula vulgaris; stigma sessile, Tulipa gesneriana, &c.

SETA. (Seta, &. f.; from χαιτα, a bristle.) A. The fruitstalk of mosses, which is either solitary, aggregate,

terminal, axillary, or lateral.

terminal, axiliary, or lateral.

B. A bristle, as applied in botanical language to a hollow, rigid, sharp-pointed pubescence, which either wounds the finger when it is pressed upon it, or gives a very harsh scabrous, or prickly character to the surface of the stem, or of the leaves when the finger is rubbed over them.

Bristles are often arranged into aculei in elementary works, but they have more affinity to hairs. They are simple and compound.

Setæ simplices are of two kinds, awl-shaped and spindle-shaped

The subulate is the most common of the simple a. The summate is the most common of the simple bristles; it is slightly curved, and gradually tapering from the base to the apex, which is rigid and very sharp. These bristles, when they all incline in the same direction, produce the scabrous character of some leaves, as in symphitum orientale. A variety of the awl-shaped bristle, found on the stem and branches of the sensitive plant, is barbed on its sides; and another variety, as exemplified on the leaves of the Borago officinalis, is scated on a vesicular tubercle constitution of the state of taining a fluid, which is ejected through the bristle when it is compressed, so as to wound the finger, and which being left in the wound excites inflammation in the part. But the sting of the nettle is the best example of this form of bristle.

b. The fusiform is, as its name implies, thickest in the centre, and accumulated at each end. It lies pathe centre, and accumulated at each end. It lies parallel to the surface of the leaf, to which it is affixed by a very small footstalk, is hollow, and contains a coloured liquid, which apparently enters it through the footstalk. This form of bristle is peculiar to the genus Malphapia.

Malphigia.

2. Seta composita. These are almost always solid. The term comprehends two species of bristles, furcata

and fasciculate

The forked are, in some instances, merely rigid hair-like bodies terminating in two or three diverging points, as in *Thrincia hispida*: but in other instances, as the stems and leaves of the hop plant, the stalk of the bristle, which is supported on a firm cellular tubercle, is very short, and its forking extremities resemble two

tions

The fasciculated consist of a number of simple, straight bristles, diverging from a papillary knob; as in Cactus flagilliformis.

There is still another species of pubescence which cannot properly be arranged with the pilus or seta: it is found on a species of house-leek, extending like a very fine thread, stretching from the tip of one leaf to that of another, and resembling so exactly a spider's web, that the plant has been named Arachnoideum .-

Bristles are also distinguished into erect, as in Leontodon hirtum; hamose, as in the pericarp of i Arcticum lappa; stellate and plumose. The t dies of plants have received other denominations.

Striga, that variety of the subulate which is seen

in Borago officinalis. Hamus, that which is hooked at its extremity : as

1. Hamas, that which is notice the extensity, as in Galium aperine, Caucalis daucoides, &c.

3. Glochis when several sharp tooth-like processes are turned back from the apex of the bristle.

5. Arista, a long bristle proceeding from the husk of grasses; as in Hordeum vulgare.

SETACEUM. (From seta, a bristle; because horse-

hairs were first used to keep open the wound.) A se-

Bristly. Applied to the petals of SETACEUS.

Trapæolum majus. SETIFORMIS. Setiform: bristly. Applied to the

SETIFORMIS. Settlorm: bristly. Applied to the nectary, as that of the Periphoea greaca.

SETON. Setaccum. An artificial ulcer made under the skin by means of an instrument called the seton needle, which carries with it a portion of thread or silk, that is moved backwards or forwards, and thus

keeps up a constantirritation.
SETOSUS. Setose: bristly; applied to the recepta-

SETURE S. Sciose: Disary; apprecio de recepta-cle of the Echynops spherocephalus, and of Centaurea. SETTERWORT. See Helleborous fatidus. SEVERINUS, Marcus Aurenus, was born in Calabria, in 1580. He graduated at Naples, where he became one of the most celebrated professors in anatomy and surgery. He was, however, semewhat barsh in his practice; and in his work, "De Efficact Medicina," condemned his contemporaries for neglecting the use of the cautery, and of the knife, as practised by the ancients. He died in 1656. Many publications were written by him, evincing much boldness and originality of thought, but too great attachment to paradox. His treatise on abscesses, in eight hooks, passed through many editions. He paid considerable atten-tion to comparative anatomy, on which subject some of his works are composed.

of his works are composed.

SEYUM. Suct. See Fat.

SEVUM CETI. See Physeter macrosciphalus.

SEVUM OTIE. Seeum ordilum. Mutton suct.

SEXUAL Actrons. Sexual functions. Those functions proper to each sex, by which the species is propagated, as the excretion of semen in men; menstruation, conception, the evolution of the fætus, parturition &c. in women. tion, &c. in women.

SEXUAL ORDANS. See Generation, organs of, Stamen, and Pistillum.

men, and Pistillum.

SEXUAL SYSTEM. See Plants.

SEYDSCHUTZ. See Seditz.

[SHAD. See Clupea alosa. A.]

SHADDOCK. A variety of orange.

SHALLOT. A species of allium.

SHARP. 1. See Acutus.

2. SAMUEL, an able and distinguished surgeon in the middle of the last century, was a pupil of Cheselden, and afterward studied with great zeal at Paris. He is said to have commenced his profession rather late in life; nevertheless, after settling in London, and becoming surgeon to Guy's hospital, his genius and assiduity soon procured him great celebrity and extensive pracing surgeon to Guy's hospital, his genius and assiduity soon procured him great celebrity and extensive practice. He was elected a Fellow of the Royal Society and a Member of the Academy of Surgery at Paris. He contributed to the improvement of his art by two valuable publications, which passed through many editions, and were translated into several foreign languages. The first of these was a "Treatise on the Operations of Surgery," with an Introduction on the Nature and Treatment of Wounds, &c. The other work was entitled "A Critical Inquiry into the present State of Surgery," first printed in 1750.

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ישמב אינויי pression made by a seal.) See Concollaria polygocause it has upon its root the resemblance of an im-State of a glass tube by melting it.

Stoillium HERMETICUM. An hermetic seal, made · siunumuo

lar earth made into cakes. SIGILLUM. (Diminutive of signum, a sign.) Signicum beatre marie. Black briony, of Tamus

SIGHT. See Vision. Sealed earth; a species of bo-STIGIE

strangury, and in calculous diseases, gout, and fluor SIGESBECKIA ORIENTALIS. The systematic name of a plant which is said to be useful in removing

plants.) The name of a genus of plants, Class, Syngrensin, Order, Polygamia superflua.
Storesbuckly orientalis. The systematic name

dom inclines to green, forms the most abundant and essential ingredient of the rock. Some varieties conbut the felspar, which is almost always red, and selfeetly from granite, with which it is often confounded sometimes quartz and black mica. The hormblende is the characteristic ingredient, and distinguishes it por-SIENITE. Syenite. A compound granular aggre-gated rock, composed of felspar and hormblende, and SIENITE. Syenite. nrade by iron instruments.
SIDERIJM. Phosphuret of iron.
SIENITE. Syenite. A compour

SIYER OF A CHORNOLOGY AND A CHARLES AND A CH

Steple. (Dim. of sica, a short sword: so called from its dagger-like root.) The beet.

Sterk box. (From arrows, a cucumber.) A trans-

paragram of mercury.

SHERMLIE, Red tournshing syphilis.

SHERMLIE, Red tournshine.

SHERMLIE, Red tournshine.

SHERMLIE, Red tournshine.

SHERMLIE, A discose of they. Diving medicines.

SHERMLIE, A discose of they. Diving medicines.

SHERMLIE, A discount of the they are a second of the they are

per, &c. ; and sinlingogn interna, as the various predivided into sinlugoga topica, as scilla, nicotiana, pi-SHAGON. Energy. The jaw. Blacone, oracle of oracle of the jaw. Blacone, oracle oracle

SHINGLINGS. Constituted and applications of the juice of Shintles, againteecous. Clay-slade. Shintles. A spirituous intent on the juice of the juice before the spirit is added.

SHERBET. A compound liquor prepared for punch SHELL

Sheathing leaves. See Vaginans. See Sheathing Leath. See Sheathing leaves. See Vaginans.

Dispensatory; and gave to the world some other minor Diseases, and their Treatment. He then pulsation of Diseases, and their Treatment. He then pulsation is pour and about the Virtues of the Earthonough Spatial Lectures, which was deemed a sejentific work, and Lectures, which was deemed a sejentific work, and the manual pulsation of the work and the Edinburgh. It is also defined the Edinburgh of the world some other minor and a spatial pulsation of the world some other minor and the Edinburgh of the world some other minor and the Edinburgh of the world some other minor and the Edinburgh of the world some other minor and the Edinburgh of the world some other minor and the Edinburgh of the world some other minor and the Edinburgh of the world some other minor and the Edinburgh of the world some Sharp-pointed dock. See Rumez acutus.

84 AV, Ferren, a physician of considerable requision in the early part of the last commy. His first that in the early part of the last commy. His first publication was entitled "New Practice of Physic," in

ciple with oxygen. If weignite powdered quartz with alkalies and corths this early has been receilly re-Another method of obtaining silles exceedingly pure for separate it from fluoric seids, bu consequence of is to separate it from fluoric seids. The metallic bases of the Bit H. Davy's researches on the metallic bases of the little hand.

the earbonic acid, is also in course of time decomposed The solution of fint, on account of its affinity with appear by evaporating part of the water.

tity of water, as for instance, in the proportion of \$4 parts to ours, and in this state as used be restered to no perceptible precipitation will ensure; the sitex continues suspended in the fluid, and is invisible on appearable to the proposition part of the water. If the solution of flints be diluted with a great quan

all the foreign earths which are present may be sepa-It is necessary to add an excess of acid, in order that

polassa; the silicious earth is therefore precipitated unites to the potassa, and forms sulphate or mariate of In this process the acid added to the solution of fint

immediate precipitation now ensures, and as long as this continues, add feet horizone of sacts. Let the precipitate subside, pour off the fluid that doats above it; and wash the precipitate with hot water till it comes and wash the precipitate with hot water till it comes and washing the special process. This powder when dry is sailed. In this process the acid added to the solution of finet. and add to it dilute sulphuric or murialic acid. Dissolve this compound in water, filter the solution, combound of alkali and silex, called silicious potassa. nate of potassa, and let the mirrure be fused, in a dull red heat, in a sulver crucible. We shall thus obtain a crucible to a red heat, and then plunge them into cold water, by this treatment they will become bittle, and easily redacible to powder. Bitx them, when milve-track, with three or four times their weight of carbonards and the states of the state. Procure some common gun-finis; expose them in a tolerably pure, from fints, by the following process: Method of obtaining Silex.—Silex may be obtained,

pears when in a state of extreme division to be soluble terable by exygen and the rest of the gascous fluids. It apextreme division it is soluble in alkalies; fused with them it forms glass. It melts with the phosphoric and boracic acids. It is unclampeable in the air, and unationable and the six and analysis of the second of When mixed with the wholes in writer, are pre-mass. Its molecule, when diffused in writer, are pre-cipitated with the utmost facility. It is not acted on he may seid, except the fluoric. When in a state of he may seid, except the fluoric. When mixed with water it does not form a cohesive 2.66. It is an afterable by the simple combustible bodies. or wears away metals. Its specific gravity is about It is rough to the touch, cuts glass, and scratches bles. It is never met with absolutely pure in nature.
Properties.—Silica, when perfectly pure, exists in the form of a white powder. It is mapped and modo-

solution, and is found in many plants, particularly grasses and equisetums. Professor back proved that it forms a part of the epidermis of these vegetta. It has been discovered in several waters in a state of shore, chiefly consist of it. It is deposited in vegetable substances forming petrified wood, &c. It is likewise precipitated from certain springs in a statactical form. stones, such as fine, rock crystal, quartz, aguic, calce-dony, jasper, &c. The sand of rivers, and of the sea-store, chiefly consist of it. It is deposited in vegetable STERR SERIME. See Holb-opal. A. [Shext, Bearingers. See Holb-opal. A. [Shext, Bearingers.] Sidex. One of the STLICA. (Sideg, Hebrew.) Sidex. One of the principle constituent part of supering the surface and some principles of the forming the immense mass of the solid nucleus of the forming the immense of the compound earlies and the principle of the principle o

SI'LER MONTANDM. Common hartwort. See Lo-Semiotice. Sl.GNUM. A sign: applied to symptoms.

Sheard preserve. Valves of the heart. Sheard currier. Signs of the crisis of discinguishing Signs production. Diagnostic or distinguishing

of the colon.

reches, increase of turn of the colon. raches, the semilurar apophysis of the bones, and the SIGMOID. (Sigmoides; from the Greek letter expre, superintly writtens, or assembling the Greek letter summ. Applied to several senting the Greek letter summ. Applied to several paris, as the valves of the frent, the cartifugues of the paris, as the valves of the frent, the cartifugues of the paris, as the valves of the paris, as the valves of the frent paris, and the paris of the paris, and the paris of t three parts of pure potassa in a silver crucible, dissolve the fused compound in water, add to the solution a quantity of acid, equivalent to saturate the alkali, and evaporate to dryness, we shall obtain a fine gritty powder, which being well washed with hot water, and evaporate to dryness, we shall obtain a fine gritty pow-der, which being well washed with hot water, and ignited, will leave pure silica. By passing the vapour of potassium over silica in an ignited tube, Sir H. Davy obtained a dark-coloured powder, which apparently contained silicon, or silicium, the basis of the earth. Like boron and carbon, it is capable of sustaining a Like boron and carbon, it is capane of sustaining a high temperature without suffering any change. SILICON. The base of silica. SILICULA. A pouch, or pod, that is scarcely longer than it is broad. It is,

1. Orbiculate, in Thlaspi arvense.

2. Cordate, in Isatis armena.

Obcordate, in Thlaspi bursæ partoris, alpestre, and Myagrum perfoliatum.

4. Lanceolate, in Lepedium alpinum, and Isatis tinctoria.

5. Angulate, in Myagrum ægyptiacum.
6. Emarginate, in Myssum, and Cochlearia.
7. Drupaceous, if the membrane is double, soft externally, and hard within; as in Erucago and

Bunias.

SILIGO. Σιλιγνις. Fine wheat or rye.

SI'LIGUA. (From silo, a nose turned up, a hooked
nose.) A long, dry, membranaceous pericarpium, or
seed-vessel, of two valves, separated by a linear receptacle, along the edges of each of which, the seeds are
arranged alternately. The dissepiment is a partition
dividing a siliqua and silicula into two loculaments, or
cells. Botanists distinguish,

1. The round pod in Fumaria lutea, and Cheiranthus trieus nidatus.

thus tricus pidatus.

2 The compressed, with level valves, in Cheiranthus

annus.

3. The four-edged, in Erysimum; Cheiranthus erysimoides, and Brassica orientalis.

4. Articulate, in Raphanus raphanistrum.

5. The tortulose, which has elevated nodes here and there, in Raphanus sativus.

6. Rostrate, having the partition very prominent at the apex; as in Sinapis alba.

Reapez, as in sanapis acou.
Siliqua dulcis. See Ceratomia siliqua.
Siliqua Hirsuta. See Dolichos pruriens.
Siliqua's trum. (From siliqua, a pod: named
om its pods.) Judas-tree. The Capsicum, or Guinea-

SILIQUA'STRUM. (From siliqua, a pod: named from its pods.) Judos-tree. The Capsicum, or Guineapepper, was so termed by Pliny. See Capsicum. SILIQUO'SAE. (From siliqua, a pod.) Cruciformis. The name of an order of plants in Linneaus's Fragments of a Natural Method, consisting of such as have a sliiqua or silicula, the flower tetradynamous and cruciate

Soliquosa indica. An American plant; its juice

SOLIQUOSA INDICA. An American plant; its juice is alexipharmic.

SILK-WORM. See Bombyz.

Silk-worm, acid of. See Bombic acid.

Silventum. (Zolaph, Arabian.) Assafestida, or the plant which affords it.

SILVER. Argentum. This metal is found both native and mineralized, and combined with lead, coper, mercury, cobalt, suplpur, arsenic, &c.. The principal ores of this metal are the following: Native sulphuretted order of silver; antimoniated silver; sulphuret of silver; sulphuretted order of silver and antimony; muviate of silver; native oxide of silver, &c.. It is found in different parts of the earth. The mines of the Erzgebürge or the metalliferous rocks of Mexico and Potosi, Boltenia, Norway, Transylvania, &c. are the richest.

burge or the metalliferous rocks of Mexico and Potosi, Bohemia, Norway, Transylvania, &c. are the richest. Native silver possesses all the properties of this metal, and it appears in series of octahedra inserted in one another; in small capillary flexible threads intwined together; in plates; or in masses. The colour of native silver is white, often taunished. Silver alloyed with gold forms the auriferous native silver ore. The colour of this ore is a yellowish white. It has much metallic lustre. The antimoniated silver ore belongs to this class. Silver, combined with sulphur, forms the sulphurctical axide of silver, or nitreous forms the sulphuretted axide of silver, or vitreous silver ore. This ore occurs in masses, sometimes in threads, and sometimes crystallized in cubes or regular cetahedra. Its colour is dark bluish gray, inclined to Its fracture is uneven, and its lustre metallic. It is soft enough to be cut with a knife. It is sometimes found alloyed with antimony (gray silver ore). united with muriatic acid forms the corneous silver ore

Germany, and other countries of Europe, but more especially Peru and Mexico in South America, contain the principal silver mines. There are, however, silver mines in Ireland, Norway, France, and many other

minies in Ireland, Norway, France, and many other parts in the world.

Method of obtaining silver.—Different methods are employed in different countries to extract silver from its ores. In Mexico, Peru, &c. the mineral is pounded, roasted, washed, and then triturated with mercury in vessels filled with water. A mill is employed to keep the whole in agitation. The silver combines by that means with the mercury. The alloy thus obtained is afterward washed, to separate any foreign matters from it, and then strained and pressed through leather. This being done, heat is applied to drive off the mercury from the silver, which is then melted and cast into hars or ingots. bars or ingots

In order to extract silver from sulphuretted or vit-reous silver ore, the mineral is roasted, and then melted with lead and borax, or some other flux to assist the fusion. By the first operation the sulphur is volatilized, and by the second the silver is obtained, though for the most part alloyed with other metals, from which it is separated by cupellation, or fusion with lead or

bismuth.

"Silver is the whitest of all metals, considerably harder than gold, very ductile and malleable, but less malleable than gold, for the continuity of its parts begins to break when it is hammered out into leaves of about the hundred and sixty thousandth of an inch thick, which is more than one-third thicker than gold leaf; in this state it does not transmit the light. Its specific gravity is from 10.4 to 10.5. It ignites be-fore melting, and requires a strong heat to fuse it. The heat of common furnaces is insufficient to oxidize it; but the heat of the most powerful burning lenses vitrifies a portion of it, and causes it to emit fumes; which when received on a plate of gold, are found to be silver in the metallic state. It has likewise been partly oxidized by twenty successive exposures to the heat of the porcelain furnace at Sevres. By passing a heat of the porcelain furnace at Sevres. By passing a strong electric shock through a silver wire, it may be converted into a black oxide; and by a powerful gal-vanic battery, silver leaf may be made to burn with a beautiful green light. Lavoisier oxidized it by the blow-pipe and oxygen gas; and a fine silver wire burns in the kindled united stream of oxygen and burns in the standard united stream or oxygen and hydrogen gases. The air alters it very little, though ut is disposed to obtain a thin purple or black coating from the sulphureous vapours which are emitted from animal substances, thanks, or, puttifying matters. This coating, after a long series of years, has been ob-served to scale off from images of silver exposed in churches; and was found, on examination, to consist of silver united with sulphur.

There seems to be only one oxide of silver, which is formed either by intense ignition in an open vessel, when an olive coloured glass is obtained; or by adding a solution of caustic barytes to one of the nitrate of a soution or cause buryes to one of the nurate of silver, and heating the precipitate to dull reduces. Sir H. Davy found that 100 of silver combined with 7.3 of oxygen in the above oxide; and if we suppose it consist of a prime equivalent of each constituent, we shall have 13.7 for the prime of silver. Silver leaf burned with a voltaic battery, affords the same olive-

coloured oxide.

Silver combines with chlorine, when the metal is safed in contact with the gas. This chloride is, how-Silver combines with chlorine, when the metal is heated in contact with the gas. This chloride is, however, usually prepared by adding muriatic acid or a muriate, to nituate of silver. It has been long known by the name of luna cornea, or horn silver, because though a white powder, as it falls down from the nitrate solution, it fuses at a moderate heat, and forms a horny-looking substance when it cools. It consists of 13.875 silver + 4.5 chlorine.

The sulphuret of silver is a brittle substance, of a

black colour and metallic lustre. It is formed by heating to reduces thin plates of silver steatified with sulphur. It consists of 13.875 silver + 2 sulphur. Silver is soluble in the sulphur acid when concentrated and boiling, and the metal in a state of division.

The muriatic acid does not act upon it, but the nitric | coinage. 124 parts of silver, alloyed with one of coi acid, if somewhat diluted, dissolves it with great rapidity, and with a plentiful disengagement of nitrous gas; which, during its extrication, gives a blue or green colour to the acid, and entirely disappears if the silver colour to the acid, and entirely disappears if the silver made use of be pure; if it contain copper, the solution remains greenish; and if the acid contain either sulphuric or muriatic acid, these combine with a portion of the silver, and form scarcely soluble compounds, which fall to the bottom. If the silver contain gold, this metal separates in blackish-coloured flocks.

The nitric acid dissolves more than half its weight of silver; and the solution is very caustic, that is to say, it destroys and corrodes animal substances very

powerfully.

The solution of silver, when fully saturated, deposites thin crystals as it cools, and also by evaporation. These are called *lunar nitre*, or nitrate of silver. A gentle heat is sufficient to fuse them, and drive off their water of crystallization. In this situation the nitrate, or rather subnitrate, for the heat drives off part of the acid, is of a black colour, may be cast into small sticks acid, is or a black colour, may be cast into small sticks in a mould, and then forms the lapis infernals, or lunar caustic used in surgery. A stronger heat decomposes nitrate of silver, the acid flying off, and the silver remaining pure. It is obvious that, for the purpose of forming the lunar caustic, it is not necessary to suffer the salt to crystallize, but that it may be under by evaporating the solution of silver at once to dryness; and as soon as the salt is fused, and ceases to boil, it may be poured out. The nitric acid driven off from nitrate of silver is decomposed, the products being oxygen and nitrogen.

The sulphate of silver, which is formed by pouring sulphuric acid into the nitric solution of silver, is sparingly soluble in water; and on this account forms crystals, which are so small, that they compose a white The muriatic acid precipitates from nitric acid the saline compound called luna-cornea, or hornsilver: which has been so distinguished, because, when melted and cooled, it forms a semitransparent and partly flexible mass, resembling horn. It is supposed that a preparation of this kind has given dise to the account of malleable glass. This effect takes place with aqua regia, which acts strongly on silver, but precipitates it in the form of muriate, as fast as it is

dissolved.

It any salt with base of alkan, containing the muriatic acid, be added to the nitric solution of silver, the same effect takes place by double affinity; the alkaline base unting with the nitric acid, and the silver falling down

in combination with the muriatic acid.

Sulphur combines very easily with silver, if thin plates imbedded in it, be exposed to a heat sufficient to neit the sulphur. The sulphuret is of a deep violet colour, approaching to black, with a degree of metallic lustre, opake, brittle, and soft. It is more fusible than silver, and this in proportion to the quantity of sulphur combined with it. A strong heat expels part of the sulphur

Sulphuretted hydrogen soon tarnishes the surface of polished silver, and forms on it a thin layer of sul-

The alkaline sulphurets combine with it by heat, and form a compound, soluble in water. Acids precipitate sulphuret of silver from this solution.

Phosphorus left in a nitric solution of silver, becomes Prosporous lett ma mire solution of siver, occomes covered with the metal in a dendritic form. By boiling this becomes first white, then a light black mass, and is uttimately converted into a light brown phosphuret. The best method of forming a phosphuret of silver is Pelletier's, which consists in mixing phosphoric acid and charcoal with the metal, and exposing the mixture to heat.

Most metallic substances precipitate silver in the

metallic state from its solution.

Silver unites with gold by fusion, and forms a pale alloy, as has been already mentioned in treating of that metal. With platina it forms a hard mixture, rather yellower than silver itself, and of difficult fusion.

Silver very readily combines with mercury. A very sensible degree of heat is produced, when silver leaf and mercury are kneaded together in the palm of the hand. With lead it forms a soft mass, less sonorous than pure silver. With copper it becomes harder and more sonorous, at the same time that it remains sufficiently ductile: this mixture is used in the British per, form the compound called standard silver. The With tin it forms a compound, which, like that of gold With tin it forms a compound, which, not that of gold with the same metal, has been said to be brittle, however small the proportion; though there is probably as little foundation for the assertion in the one case as in the other. With bismuth, arsenic, zinc, and antimony, it forms brittle compounds. It does not unite with nickel. The compound of silver and tungsten, in the proportion of two of the former to one of the latter, was extended under the hammer during a few strokes; but afterward split in pieces.

The uses of silver are well known: it is chiefly applied to the forming of various utensils for domestic use, and as the medium of exchange in money. Its disposition to assume a black colour by tarnishing, and its softness, appear to be the chief objection to its use in the construction of graduated instruments for astronomical and other purposes, in which a good white metal would be a desirable acquisition. The nitrate silver, besides its great use as a caustic, has been

employed as a medicine."
SILVER-WEED. See Potentilla anserina.
SIMAROU'BA. (A patronymic name of America.)
See Quassia simarouba.

SI'MIE LAPIS. See Bezoar simio. Simple affinity. See Affinity simple. Simple attraction. See Aginity simple. Simple louf. See Leaf

Simple substance. See Element.
S'IMPLEX. Simple: applied very generally in every department of nature to designate that which is not compound.

SINAPE. See Sinapis.
SINAPELÆUM. (From σιναπι, mustard, and

SINAPELTE UM. (From divant, mustard, and elactor, oil.) Oil of mustard.
SINAPI. See Sinapis.
SINAPIS. (Ore συνεί τους ωπας, because it hurts the eyes.) 1. The name of a genus of plants in the Linnaran system. Class, Tetradynamia; Order, Siliquosa. Mustard.

The pharmacopæial name of the black mustard.

See Sinapis nigra.

Sinapis alba. The systematic name of the white mustard plant, which is directed for medicinal use in the

mustard plant, which is directed for incommunities in the Edinburgh pharmacopata. It is somewhat less purgent than the black species. See Sinapis nagra. Sixapis niona. The systematic name of the common black mustard. Synapis Fraca; Sixapis napi. Common black mustard. Sixapis—sitquis glubris racemo appressis, of Linnaus. The seeds of this species of mustard, which are directed by the Lonthis species of mistard, which are directed by the Lon-don College, and those of the Sinapis alba, which are preferred by that of Edinburgh, manifest no remark-able difference to the taste, nor in their effects, and, able difference to the tasks for in their chees, and, therefore, answer equally well for medicinal and culturary purposes. They have an acrid pungent taste, and, when busised this pungency shows its volatility by powerfully affecting the organs of smell. Mustard by beverinity ancering the organs of silien. Mustarri is considered as capable of promoting appetite, assisting digestion, aftenuating viscid juices, and, by stimulating the fibres, it proves a general remedy in paralytic affections. Jeined to its stimulant quantities, it frequently, if taken in considerable quantity, opens the body, and increases the universe discharge. body, and increases the urinary discharge, and hence it has been found useful in dropsical complaints. nally, flower of mustard is frequently used mixed with

vinegar, as a stimulant or sinapism.

SINAPI'SMUS. Sinapismum; Cata
pios. A sinapism or mustard poultice. Cataplasma sinato a mixture of mustard and vinegar in form of poultice, generally applied to the calves of the legs, or soles of the feet, as a stimulant, and employed in low states of feer, and other diseases, and intended to supercede feerer and other diseases, and intended to supercede the use of a bitser. See Cataplasma strapts. SINA'PIUM. (From overn, mustard.) An in-fusion or decoction of mustard-seed.

Institute of the transfer of the head. See Caput. SI NCPUT. The forepart of the head. See Caput. SI'NE PARI. Several muscles, veins, arteries, &c. are so called which are without a fellow. See Azygos.

Augus.

Single elective attraction. See Affinity simple.

SINGU'LTUN. Lugmos. The inecough. A convulsive motion of the diaphragm and parts adjacent.

SINUATUS. Sinuated: applied to leaves which

are cut into rounded or wide openings; as in Statice |

SI'NUS. 1. A cavity or depression.
2. In surgery it means a long, narrow, hollow track, leading from some abscess, diseased bone, &cc

The veins of the dura mater are termed sinuses. They are several in number, the principal of which are, I ney are severa in number, the principal of which are,

1. The long-tuninal strung, which rises anteriorly
from the crista galli, ascends and passes between the
two famins of the fallefrom process to where this process ends. It then opens into, 2. Two lateral situates,
distinguished into right and left, which fit in the crucial spine of the os occipitis: 3. The inferior longitudinal, which is a small sinus situated at the acute inferior margin of the falx.
Sinus cox E. The acetabulum.

SINUS GENE PITUITARIUS. See Antrum of Highmore.

SINUS LATERAL. See Lateral sinuses.

SINUS LONGUIUDINALIS. See Longitudinal sinus.

SINUS MAXILLARIS. See Antrum of Highmore.

SINUS MULIEBRIS. The Vagina.

SINUS VENÆ PORTARUM. The entrance into the

liver.

Stynilis. See Syphilis.

SIPHO'NIA. (From qipur, a pipe; alluding to the uses made of the exudation of the tree, called Indian rubbers.) The name of a genus of plants in the Linnaran system. Class, Monacia; Order, Monadelphia. Sprinnia Elastica. The systematic name of the clastic resin-tree. See Caoutchone.

SIRI'ANIS. (From qipos, a cavity.) An inflammation of the brain peculiar to children, and attended with a hollowness of the eyes and depression of the Continuida.

fontanella.

SIRUM MYRTIFOLIUM. The systematic name of the tree which is supposed by some to afford the yellow See Santalum album

SI'SARUM. (Sisa, Hebrew.) Siser or skirret. See

Sium sisarum.
SISER. See Sium sisarum.
SISEN. (Σισων. A name adopted by Dioscorides.) The name of a genus of plants. Class, Pentandria,

Order, Monogynia.

Short AMMI. The systematic name of the plant Sison AMMI. The systematic name of the plant which affords the ammi verum of the shops. The seeds of this plant, Sison—folias tripinarity, radicalibus linearibus, caulinis setaceis stipularibus longio-ribus, of Linnaus, have a grateful smell, somewhat like that of origanum, and were formerly administered as a carminative.

SISY MiRIUM. (From otovbos, fringe; so named from its fringed toots.) The name of a genus of plants in the Linnwan system. Class, Tetradynamia; Order,

Siliquosa.

Siloguosa.

Sisymbrium nasturtium. The systematic name of the water-cross. Nasturtium aquaticum; Laure odoratum; (ratera stan) Creest: Cardamines. Water-cross. This indigenous plant, Sisymbrium-siliquis dictinatis, folis pinnatis, foliolis subcordatis, of Linnaus, grows plentifully in brooks and stagnant waters. The leaves have a moderately pungent laste, emit a quick penetrating smell, like that of mustard-seed, but much weaker. Water-crosses obtain a place in the Materia Medica, for their antisoributic qualities, which have been long very generally acknowledged by physicians. The most pleasant way of administerby physicians. The most pleasant way of administering them is in form of a salad.

Ing them is in form of a salad.

Sisymbrium Sophia. The systematic name of the herb sophia. Sophia chirurgorum. This plant is now almost banished from practice. It was formerly in high estimation in the cure of wounds. It has been given internally in hysterical affections and uterine hemorrhages, and the seeds are said to be efficacious in de-

rhages, and the seeds are sain to be emeacious in de-stroying intestinal worms.

SITIOLOGY. (Sitiologia: from σι/ος, aliment, and λογος, a discourse or treatise.) Adoctrine or trea-tise on aliment.

SIUM. (From σεω, to move; from its agitation in water. 1. The name of a genus of plants in the Lin-naean system. Class, Pentandria; Order, Digynia.

2. The pharmacopæial name of the creeping waterparsnip.

SIUM AROMATICUM. The amomum is sometimes so

SUM NINGI. The systematic name of the plant, the root of which is called radix ninsi; Ninzin: Nindsin.

This root was long supposed to be the same as ginseng It now appears, however, to be the produce of this plant. It possesses similar, though weaker properties, than ginseng.

SUM NODIFLORUM. The systematic name of the creeping water-parsnip. This plant was admitted into the London pharmacopæia in the character of an anti-scorbutic. It is not nauscous, and children take it rea-

dily if mixed with milk.

SIUM SISARUM. The siser or skirret. The root of this plant is eatable, but now out of use, though cultivated in the days of Gerarde and Parkinson. Its flavour is said to be aromatic, with a sweetness not acceptable to every palate, and of a flatulent and indigestible

TON. (Sceletus, from σκελλω, to dry.)
When the bones of the body are preserved SKELETON. Sceleton. in their natural situation, and deprived of the flesh, the

assemblage is called a skeleton. See Bone.

SKRLETON, ARTIFICIAL. The assemblage of all the bones of the animal, when hung in their respective situations by means of wire. See Bone.

SKRLETON, NATURAL. A skeleton is so termed in opposition to an artificial one, when the bones are retained in their proper places by means of their natural lightnesser.

SKIN. Δερμες. Pellis; Cutis. The skin, though apparently a simple membrane, is in reality laminated, consisting of several subdivisions; the outermost lamina is termed with us scarf skin, or cuticle; the second has no English name, is known only to anatomists, and is called rete mucosum. After these two are removed, we come to, as is commonly thought, the surface of the skin

When a blister has been applied to the skin of a negro, if it has not been very stimulating, in twelve hours gro, if it has not been very stimulating, in twelve hours after a thin transparent grayish membrane is raised, under which we find a fluid. This membrane is the cuticle or searf skin. When this, with the fluid, is removed, the surface under them appears black; but if the blister had been very stimulating, another membrane, in which this black colour resides, would also have been raised with the cuticle. This is the rete mucosum, which is itself double, consisting of another gray transparent membrane, and of a black web, very much resembling the strong membrane, and of the constitute of the constitut much resembling the nigrum pigmentum of the eye. When this membrane is removed, the surface of the true skin (as has hitherto been believed) comes in view. and is white, like that of a European. The rete mucosum gives the colour to the skin; is black in the Negro; white, brown, or yellowish, in the European. The reason why this membrane is black in the Negro, is, perhaps, that his body may be better able to defend itself against the sun's rays, and that the heat may be pre-vented from penetrating. The intention of a similar membrane behind the retina in the eye, appears to be not only that of absorbing the superfluous rays of light, but, like the amalgam behind the looking-glass, it may enable the retina to reflect the rays, in order to perfect vision. It is not very improbable that some such purpose, as enabling the cuticle to reflect the sun's rays in those warm climates, where the inhabitants originally go naked, may be the intention of nature, in giving them the black membrane. Perhaps, too, the circumstance of the countenance becoming brown, when exposed to the sun's rays in summer, in our own climate, may be a process of nature to defend herself against the access of external heat into the body.

Both cuticle and rete mucosum send innumerable pro cesses into the pores of the true skin. The process of the rete mucosum is always within that of the cuticle, the rete mucosum is always within that of the cuticle, and in contact with the sides of the pore, as formed by the true skin. These processes are remarkable in the cuticle and rete mucosum, of the elephant, some of them are almost an inch long; the cuticle, or rete mucosum, or a membrane very similar, having the same proper ties with these, appears to be also continued into the ties with these, appears to be also continued into the inside of the mouth, over the tongue, internal surface of the lungs, esophague, stomach, and intestinal tube. In most of the last-named parts, the cutiele, however, forms sheaths for villi, and not processes which line pores. On viewing the surface of the skin, even with the naked eye, we find it porous; more so in some places than in others; and the pores are also larger in some parts then others. Some of these pores are dues of sebaceous glands, and others serve not only to transmit hairs, but, it is supposed, the greatest part of the per 290

spirable matter itself. Absorption on the skin also, in ' all probability, begins on the sides of these pores. They are particularly remarkable about the mouth, nose, paims of the hands, soles of the feet, external car, scalp, mons veneris, and around the nipple in women.

The skin itself was given to man not only for feeling in a general sense, but for perspiration, absorption, and particularly for touch, in which he excels all other animals, and which resides principally in the tips of the fingers. He was intended for examining, reasoning, forming a judgment, and acting accordingly; he was fitted by this sense to examine accurately the properties of surrounding bodies, not capable of being examined by his other senses. This, among other reasons, was one why he was made erect, that the point of his fingers should not be made callous, or less sensible, by walking on them.

When carefully dissected off and separated from all adventitious matter in a middle-sized man, the skin weighs about four pounds and a half.

The skin of human bodies is always of a white colour, in the dead body, let the colour of the rete mucosum be what it may; it is extremely full of pores, and extremely vascular; a child in full vigour comes into the world from this circumstance, scarlet; it is endowed Word from this circumstance, scariet; it is endowed with intense sensibility. Almost all the pain, in the different operations of surgery, is past when we have divided the skin. Some parts of the skin have more feeling than others; the lips, for example, as Haller says, "ad basia destinata." The glans clitoridis, and the glans penis, with a similar intention; there, though the nerves are not so large as in some other parts, they are longer, more numerous, and endowed with more exquisite feeling; but where the common offices of life merely are intended, the marks of superior feeling or touch, in the skin, are the projections, above the common surface, of those packets of arteries, veins, and absorbents, called villi. The nerves are there not only also longer, but larger, as in the points of the fingers and toe

We are not certain that the skin is muscular, but it has properties very like those of muscle; it contracts, relaxes, and even vibrates in some places, on certain occasions. It is extremely distensible; the skin of the perinaum has stretched in labour from a quarter of an inch to six inches. It is also extremely elastic, and inetantly after labour has returned again to the original quarter of an inch; it is thickest on those parts intended by nature to bear weight or pressure; of course it is thickest on the back, on the soles of the feet, and palms of the hands. It is thinner on the forepart of the body, on the insides of the arms and legs, and where its surfaces touch opposite surfaces. It is extremely thin on the lips, and allows the colour of the blood to shine through it. It is also extremely thin on the glans penis in men, glans chtorides in women, and on the inside of the labia pudendi. Skin dried and dressed is extremely strong and durable, and therefore employed in making harness for horses, clothing for men, and a va-

making harness for horses, clothing for men, and a variety of other purposes.

Skin, scarf. See Outicle, and Skin.

SKINK. See Scincus.

SKORODITE. An arsenate of iron, without copper, of a green colour, found in quartz and hornstone in primitive rocks in Saxony.

SKULL. Cranium. The skull, or that bony box which contains the brain. It forms the forehead, and every part of the head, except the face. It consists of eight bones, namely, one os frontis, one os occipitis, one os sphenoides, one os ethmoideum, two ossa temporalia, and two ossa parietalia. lia, and two ossa parietalia.
[Skunk cabbage. See Dracontium. A.]

Slaters. See Oniscus asellus. SLEEP. Somnus. That state of the body in which the internal and external senses and voluntary motions are not exercised. The end and design of sleep is both to renew, during the silence and darkness of the night, the vital energy which has been exhausted through the

day, and to assist nutrition.
"When the time of being awake has continued for "When the time of being aware has continued to state on the circumstances is streen or eighteen hours, we have a general feeling of fatigue and weakness; our motions become more difficult, our senses lose their activity, the mind becomes confused, receives sensations indistinctly, and governs muscular contraction with difficulty. We recognise, by these signs, the necessity of sleep; we choose such a position as can be preserved with little effort; we system, strong exertions of the mind, lively and multi-

seek obscurity and silence, and sink into the arms of

oblivion.

The man who slumbers loses successively the use of his senses. The sight first ceases to act by the closing of the cyclids, the small becomes domain and after the taste, the hearing after the smell, and the touch after the hearing: the nuscles of the limbs, being relaxed, cease to act before these that support the head, and these before those of the spine. tion as these phenomena proceed, the respiration becomes slower and more deep, the circulation dunicomes slower and more deep, the cuculation duninishes; the blood proceeds in greater quantity to the head; animal heat sinks; the different secretions become less abundant. Man, although plunged in this sopor, has not, however, lost the feeling of his existence; he is conscious of most of the changes that happen in him, and which are not without their charms; ideas, more or less incoherent, succeed each other in his mind; he ceases, figully, to be sensible or even the second secon he ceases, finally, to be sensible of existence; he is

During sleep, the circulation and respiration are retarded, as well as the different secretions, and, in conse-

quence, digestion becomes less rapid.

I know not on what foundation the most part of au-I know not on what foundation the most part of au-thors say that absorption alone acquires more energy. Since the nutritive functions continue in sleep, it is exi-dent that the brain has ceased to act, only with regard to muscular contraction, and as an organ of Intelligence; and that it continues to influence the muscles of respiration, the heart, the arteries, the secretions, and nu-

Sleep is profound when strong excitants are necessary to arrest it; it is light, when it ceases easily

Sleep, such as it has been described, is perfect, that is, it results from the suspension of the action of the relative organs of life, and from the diminution of the action of the nutritive functions; but it is not extuar-dinary for some of the relative organs of life to preserve their activity during sleep, as it happens when one sleeps standing; it is also frequent for one or more of the senses to remain awake, and transmit the impressions which it perceives to the brain; it is still more common for the brain to take cognizance of different internal sensations that are developed during sleep, as wants, desires, pain, &c. The understanding itself may be in exercise in man during sleep, either in an irregular and incoherent manner, as in most dreams, or in a consequent and regular manner, as it happens in some persons happily oversitied. organized.

The turn which the ideas assume during sleep, or the nature of dreams, depends much on the state of the If the stomach is overcharged with indigested food, the respiration difficult on account of position, or other causes, dreams are painful, fatiguing; if hunger is felt, the person dreams of cating agreeable food; if it is the venereal appetite, the dreams are evoic, &c. The character of dreams is no less influenced by habitual occupations of the mind; the ambitious dream of success or disappointment, the poet makes verses, the lover sees his mistress, &c. It is because the judg-ment is sometimes correctly exercised in dreams, with regard to future events, that in times of ignorance the gift of divination was attributed to them.

Nothing is more curious in the study of sleep than the history of sleep-walkers.

Those individuals being first profoundly asleep, rise all at once, dress themselves, see, hear, speak, employ their hands with ease, perform certain exercises, write, compose, then go to bed, and preserve, when they awake, no recollection of what happened to them. What difference is there, then, between a sleep-walker of this kind, and a man awake? A very evident difference is the company of this kind, and a man awake? ference,—the one is conscious of his existence, and the

Many hypotheses have been offered on the proximate cause of sleep, as the depression of the lamine of the cerebrum, the afflux of blood to the brain, &c. Sleep, which is the immediate effect of the laws of organization, cannot depend on any physical cause of this kind. Its regular return is one of the circumstances

plied sensations, prolong it, as well as habits of idleness, the immoderate use of wine, and of too strong aliments. Intancy and youth, whose life of relation is very active, have need of longer repose. Riper age, too e fregal of time, and tortuned will cares, devotes to thut a small portion. Very old people present two opposite modifications; either they are almost always slumbering, or their steep is very light; but the reason of this latter is not to be found in the foresight they have of their propections. have of their approaching end.

have of their approaching end.

By uninterrupted peaceable sleep, restrained within proper limits, the powers are restored, and the organs recover the facility of action; but if sleep is troubled by disagreeable dreams, and painful impressions, or even prolonged beyond measure, very far from repairing, it exhausts the strength, fatigues the organs, and sometimes becomes the occasion of serious diseases, as idootsm and madness."

SLICKENSIDES. The specular variety of galena is so called in Deducation.

is so called in Derbyshire

is so called in Derbyshire.

SLOE. See Primus subcastris.

SMALLAGE. See Injum graveolens.

SMALL POX. See Variola.

SMALT. See Zaffer.

SMARAGDITE. See Dialoge.

SMARAGDITE. See Emerald.

SMELLIE, WILLIAM, was born in Scotland, where he practised midwifery for nineteen years, and then settled in London. He attained considerable reputation as a lecturer, which he appears to have merited by his assuinty and talents. He introduced many improvements in the instruments employed in that handle of the profession, and established some useful provements in the instruments employed in that branch of the profession, and established some useful rules for their application. He was the first writer who, by accurately determining the shape and size of the pelvis, and of the head of the feetus, and considering its true position in attro-, clearly pointed out the whole progress of paturition; and his opinions were subsequently confirmed, especially by his pupil, the celebrated Dr. W. Hunter. He abolished many superstitions notions, and erroneous customs, that prevailed in the management of parturient women, and of the children; and had the satisfaction of seeing most of these improvements adopted, as well in this as in other countries of Europe. In 1752, he published the substance of his lectures in an octavo volume; to which he added, two years after, a second volume of cases; he added, two years after, a second volume of cases; and a third appeared about five years after his death, in 1768. In 1754, he also published a set of anatomical plates, of a large folio size, to elucidate his doctrines

SMELL. "There escapes from almost every body in nature certain particles of an extreme tenuity, which are carried by the air often to a great distance. These particles constitute odours. There is one sense destined to perceive and appreciate them. Thus an important relation between animals and bodies is esta-

All bodies of which the atoms are fixed are called

inodorous.

The difference of bodies is very great relative to the manner in which odours are developed. Some permit them to escape only when they are heated; others only when rubbed. Some again produce very weak odours, while others produce only those which are highly powerful. Such is the extreme tenuity of odoriferous partitles, that a body may produce them for a very long time without losing weight in any sensible degree. Every odoriferous body has an odour peculiar to

itself.

As these bodies are very numerous, there have been attempts made to class them, which have nevertheless

all failed

all failed. Odours can be distinguished only into weak and strong, agreeable and disagreeable. We can recognise codours which are musky, aromatic, field, rancid, spermatic, pungent, muriatic, &c. Some are fugitive, others tenacious. In most cases an odour cannot be distinguished but by comparing it with some known body. There ed but by comparing it with some known body ed but by comparing it with some known only. The have been attributed to odours properties which are nourishing, medical, and even venomous; but in the areas which have given rise to these opinions, might not the influence of odours have been confounded with the effects of absorption? A man who pounds jalap for some time will be purged in the same manner as if he had actually swallowed part of it. This ought not to be attributed to the effects of odours, but rather to

the breath. We ought to attribute to the same cause the drunkenness of persons who are exposed for some time to the vapours of spirituous liquors. The air is the only vehicle of odours; it transports them to a distance; they are also produced, however, in vacuo, and there are bodies which project odoriferous particles with a certain force. This matter has not yet been carefully studied; it is not known if, in the propagation of odours, there he any thing analogous to the divergence, the convergence, to the reflection, or the refraction of the rays of light. Odours mix of combine with many liquids, as well as solids. This is combine with many liquids, as well as solids. This is the means employed to fix or preserve them. Liquids, gases, vapours, as well as many solid bodies reduced to powder, possess the property of acting on the organs

Apparatus for smelling.—The olfactory apparatus ought to be represented as a sort of sieve, placed in the passage of the air, as it is introduced into the chest, and intended to stop every foreign body that may be

and intended to stop every foreign body that may be mixed with the air, particularly the odours.

This apparatus is extremely simple; it differs essentially from that of the sight and the hearing; since it presents no part anterior to the nerve, destined for the physical modification of the external impulse, the nerve is to a certain degree exposed. The apparatus is composed of the pituitary membrane, which covers the sinuses, and of the olfactory nerve.

The pituitary membrane covers the whole extent of the nosurils, increases the thickness of the spongy bones.

the nostrils, increases the thickness of the spongy b very much, is continued beyond their edges and their

the nostrils, increases the thickness of the spongy bones very much, is continued beyond their edges and their extremities, so that the air cannot traverse the nostrils but in a long narrow direction. This membrane is thick, and adheres strongly to the bones and cartilages that it covers. Its surface presents an infinity of small projections, which have been considered by some as nervous papillas, by others as mucous follicles, but which, according to all appearance, are vascular.

These small projections give to the membrane an appearance of velvet. The piniturary is agreeable and soft to the touch, and it receives a great number of vessels and nerves. The passages through which the air proceeds to arrive at the fauces deserve attention. These are three in number. They are distinguished in anatomy by the names of inferior, middle, and superior meature. The inferior is the broadest and the longest, the least oblique and least crooked; the middle one is the narrowest, almost as long, but of greater extent from top to bottom. The superior is much shorter, more oblique, and narrower. It is necessary to add to these the interval, which is very narrow, and which separates the partition of the external side of the nostrils in its whole extent. These canals are so narrow, that the least swelling of the piluitary renders the passage of the air in the nostrils difficult, and sometimes impossible.

The two superior measure communicate with certain.

sage of the air in the nostrils difficult, and sometimes impossible.

The two superior meatus communicate with certain cavities, of dimensions more or less considerable, which are hollowed out of the bones of the head, and are called sinuses. These sinuses are the maxiliary, the palatine, the sphenoidal, the frontal; and those which are hollowed out of the ethmoid bone, better known by the name of ethmoidal cells.

The sinuses communicate only with the two superior meatines.

rior meatus.

The frontal, the maxillary sinus, the anterior cells of the ethmoid bone, open into the middle meatus; the of the ethmoid bone, open into the middle measus; the sphenoidal, the palatine sinus, the posterior cells of the ethmoid, open into the superior measus. The sinuses are covered by other soft membranes, very little adherent to the sides, and which appear to be of the mucous kind. It secretes more or less abundantly a matter called nasal mucus, which is continually spread matter caned vasue maleas, which is continuous spread over the pituitary, and seems very useful in smelling. A more considerable extent of the sinus appears to coincide with a greater perfection of the smell. This is at least one of the most positive results of comparative

The olfactory nerve springs, by three distinct roots, from the posterior, inferior, and internal parts of the anterior lobe of the brain. Prismatic at first, it proceeds towards the perforated plate of the ethmoid bone. It swells all at once, and then divides itself into a great number of small threads, which spread them-

It is important to remark, that the filaments of the ol-factory nerves have never been traced upon the infe-rior spongy bones, upon the internal surface of the middle meatus, nor in any of the sinuses. The pitur-tary membrane receives not only the nerves of the first pair, but also a great number of threads, which spring from the internal aspect of the spheno-palatine ganglion. These threads are distributed in the meatus. and in the inferior part of the membrane. also, for a considerable length, the ethmoidal thread of the nasal nerve, and receives from it a considerable number of filaments. The membrane which covers the sinus receives also a number of nervous ramifications.

The nasal fossæ communicate outwardly by means of the nostrils, the form and size of which are very variable. The nostrils are covered with hair on the in side, and are capable of being increased in size by muscular action. The nasal fosse open into the pha-

rynz by the posterior nostrils.

Mechanism of Smelling.—Smell is exerted essentially at the moment when the air traverses the nasal fossæ in proceeding towards the lungs. We very rarely perceive any odour when the air proceeds from the lungs; it happens sometimes, however, particularly in organic diseases of the lungs.

The mechanism of smell is extremely zimple. only necessary that the odoriferous particles should be stopped upon the pituitary membrane, particularly in the places where it receives the threads of the olfac-

tory nerves.

As it is exactly in the superior part of the nasal fossæ, where the extremes are so narrow, that they are covered with mucus, it is also natural that the parti-

cles should stop there.

We may conceive the utility of mucus. Its physical properties are such that it appears to have a much greater affinity with the odoriferous particles than with air: it is also extremely important to the offactory sense, that the nasual mucus should always preserve the same physical properties. Whenever they are changed, as it is observed in different degrees of coryza, the smell is either not exerted at all, or in a very imperfect

After what has been said of the distribution of the ol-After what has been said of the distribution of the olfactory nerves, it is evident that the odours that reach the upper part of the nasal cavities will be perceived with greater facility and acuteness: for this reason, when we wish to feel more acutely, and with greater exactness, the odour of any body, we modify the air In such a manner that it may be directed towards this point. For the same reason, those who take snuff endeavour also to make it reach the upper part of the nasal fosses. The internal face of the ossa sponguosa managers well disposed to ston the odour 2 the instant appears well disposed to stop the odours at the instant the air passes. And, as there is an extreme sensibility in this point, we are inclined to believe that here the smell is exerted, though the filaments of the first pair have not been traced so far.

Physiologists have not yet determined the use of the external nose in smelling; it appears intended to direct the air charged with odours towards the superior part

of the nasal cavities.

Those persons who have their noses deformed, par-ticularly if broken; those who have small nostrils, di-rected forward, have in general almost no smell. The loss of the nose, either by sickness or accident, causes almost entirely the loss of smell. Such people recover the benefit of this sense by the use of an artificial

The only use of the sinuses which is generally adnitted, is that of furnishing the greater part of the nasal mucus. The other uses which are attributed to them are, to serve as a depôt to the air charged with doordferous particles, to augment the extent of the surface which is sensible to odours, and to receive a por-tion of the air that we inspire for the purpose of putting the power of smell in action, &c. These are far from

Vapours and gases appear to act in the same manner The mechaupon the pituitary membrane as odours. The mechanism of it ought, however, to be a little different Bodies reduced to a coarse powder have a very strong action on this membrane; even their first contact is nion has been, however, unfortunately falsified by the painful; but habit changes the pain into pleasure, as is most ample experience, and whoever shall be so un 202

selves upon the pituitary membrane, principally on the seen in the case of taking snuff. In medicine, this pro-superior part of it.

perty of the pituitary membrane is employed for the purpose of exciting a sharp instantaneous pain.

In the history of smell, the use of those hairs with which the nostrils and the masal fosses are provided, must not be forgotten. Perhaps they are intended to prevent the entrance of foreign bodies along with the air into the masal fosses. In this case, they would bear a strong analogy to the eyelashes, and the hairs with which the ear is provided. which the ear is provided.

It is generally agreed that the olfactory nerve is es-It is generally agreed that the offactory herve is especially employed in transmitting to the brain the impressions produced by odoriferous bodies; but there is nothing to prove that the other nerves, which are placed upon the pituitary, as well as those near it, may not concur in the same function."—Magendie's Phy-

siology.

SMELT. See Salmo eperlanus.
SMI'LAX. (From σμιλευω, to cut: so called from the roughness of its leaves and stalk.) The name of a genus of plants in the Linnænn system. Class, Diæcia;

genus of plants in the Liniteau system. Cass, Dieca; Order, Octandria. Rough bind-weed.

SMILAX CHINA. The systematic name of the China root tree. China; China orientalis; Sankira; Guaquara; Smilax aspera Chinensis. China root. It was formerly in esteem, as sarsaparilla now is, in the cure of the venered disease and cut angeling languages.

of the venereal disease, and cutaneous disorders.

Smilax, Chinese. See Smilax china.

SMILAX SARSAPARILLA. The systematic name of the plant which affords the sarsaparilla. Sarsaparilla; plant which affords the sarsapatilla. Sarsaparilla; Smilax aspera Peruviana; Sarsa; Carivillandi; Paa pecanga; Macapatli; Zarza; Zarzaparilla; Salsaparilla; Zarzaparilla; Salsaparilla; Zarzaparilla. The root of this plant, Smilax—caule aculeato angulato, foliis inermibus ovatis retuso mucronatis trinervis, of Linnaus, has a farinaceous, somewhat bitter taste, and no smell. About two centuries ago it was introduced into Spain, as an undoubted specific in syphilitic disorders; but owing to difference of climate, or other causes, it has not an-swered the character which it had acquired in the Spanish West Indies. It is now considered as capable of improving the general habit of body, after it has been reduced by the continued use of mercury.

To refute the opinion that sarsaparilla possesses antisyphilitic virtues, Mr. Pearson, of the Lock Hospital, divides the subject into two distinct questions. the sarsaparilla root, when given alone, to be safely re-lied on in the treatment of lues venerea? The late Mr. Bloomfield, his predecessor, and during some years his colleague at the Lock Hospital, has given a very de-cided answer to this question: "I solemnly declare," any he "I never saw a single instance in my 16°. says he, "I never saw a single instance in my life where it cured that disorder without the assistance of mercury, either at the same time with it, or when it had been previously taken before the decoction was directed." Pearson's experience, during many years, coincides entirely with the observations of Bloomfield. He has employed the sarsaparilla, in powder and in decoctions, in an almost infinite variety of cases, and feels himself fully authorized to assert, that this plant has not the power of curing any one form of the lues venerea. The sarsaparilla, indeed, like the guaiacum, is capable of alleviating symptoms derived from the venereal virus; and it sometimes manifests the power of suspending, for a time, the destructive ravages of of suspending, for a time, the destructive ravages of that contagion; but where the poison has not been previously subdued by mercury, the symptoms will quickly return; and, in addition to them, we often see the most indubitable proofs that the disease is making an actual progress, during the regular administration of

the vegetable remedy.

2. When the sarsaparilla root is given in conjunction with mercury, does it render the mercurial course more certain and efficacious? In replying to this query, it is necessary to observe that the phrase, "to increase the efficacy of mercury," may imply, that a smaller quantity of this mineral antidote will confer security on an infected person, when sarsaparillals added to it; or it may mean, that mercury would be sometimes unequal to the cure, without the aid of sarsaparilla. If a equal to the cure, without the aid of earsaparilla. If a decoction of this root did indeed possess so admirable a quality, that the quantity of mercury, necessary to effect a cure, might be safely reduced, whenever it was given during a mercurial course, it would form a most valuable addition to our Materia Medica. This opinions to the control of th

wary as to act upon such a presumption, will be sure to 1 at his early age an extent of Medical learning, for which find his own and his patient's expectations egregiously the longest lives are seldom found sufficient. The

disappointed. If the sarsaparilla root be a genuine antidote against the syphilitic virus, it ought to cure the disease administered alone; but, if no direct proof can be ad-duced of its being equal to this, any arguments founded on histories where mercury has been previously given, or where both the medicines were administered at the same time, must be ambiguous and undecisive.

It appears probable, that Sir William Fordyce, and

some other persons, entertained a notion, that there were certain venereal symptoms which commonly resisted the potency of mercury, and that the sarsapa rilla was an appropriate remedy in these cases. This rma was an appropriate releasy in these cases. This opinion, it is presumed, is not correct, for it militates against all Mr. P. has ever observed of the progress and treatment of lues venerea. Indeed, those patients who have lately used a full course of mercury, often who have lately used a tall course of mercury, often compain of nocturnal pains in their limbs; they are sometimes afflicted with painful enlargements of the elbow and knee-joints; or they have membranous nodes, cutaneous exulcerations, and certain other symptoms, resembling those which are the offspring of the

venereal virus.

It may and does often happen, that appearances like these are mistaken for a true venereal affection, and, in consequence of this error, mercury is administered which never fails to exasperate the disease. etrong decoction of sarsaparilla root be given to per-sons under these circumstances, it will seldom fail of producing the mostbeneficial effects; hence it has been contended, that symptoms derived from the contagion of lues venerea, which could not be cured by mercury. have finally yielded to this vegetable remedy. It must be acknowledged, that representations of this kind have a specious and imposing air; nevertheless, Mr. Pearson endeavours to prove, that they are neither exact nor conclusive. If any of the above-named symptoms should appear near the conclusion of a course of mercury, when that medicine was operating power-fully on the whole system, it would be a strange and inexplicable thing if they could possibly be derived im-mediately from the uncontrolled agency of the venreal virus.

This would imply something like a palpable contra-diction that the antidote should be operating with sufficient efficacy to cure the venereal symptoms, for which it was directed, white, at the same time the venereal virus was proceeding to contaminate new parts, and to excite a new order of appearances.

One source, and a very common one, to which some of the mistakes committed upon this subject may be traced, is a persuasion that every morbid alteration which arises in an infected person is actually tainted with the venereal virus, and ought to be ascribed to it as its true cause.

Every experienced surgeon must, however, be aware, that very little of truth and reality exists in a represen tation of this kind. The contagious matter, and the mineral specific may jointly produce, in certain habits of body, a new series of symptoms, which, strictly speaking, are not venereal, which cannot be cured by mercury, and which are sometimes more to be dreaded than the simple and natural effects of the venereal virus.

Some of the most formidable of these appearances may be sometimes removed by sarsaparilla, the vene real virus still remaining in the system; and, when the force of that poison has been completely subdued by mercury, the same vegetable is also capable of freeing the patient from what may be called the sequelæ of a mercurial course.

The root of the sarsaparilla is sometimes employed

The root of the sarsaparilla is sometimes employed in rheumatic affections, scrofula, and cutaneous complaints, where an acrimony of the fluids prevails. ["SMITH, ELIDUH, M.D. Dr. Smith was one of the first projectors of the New York Medical Repository, uniting with Drs. Mitchill and Miller in establishment. ing one of the first Medical and Scientific Journals in this country. He, however, survived but a short time after its commencing, having died of the Yellow-Fever in New-York, in 1798. Dr. E. H. Smith was born in Litchield, in Connecticut, in 1771, and died in the 27th year of his age.

"In announcing the death of Dr. Smith, the surviving editors of the Medical Repository thus speak:

As a Physician his loss as irreparable. He had explored

the longest lives are seldom found sufficient. The love of science, and the impulse of philanthropy, directed his whole professional career, and left little room for the calculations of emolument. He had formed vast designs of medical improvement, which embraced the whole family of mankind; was animated by the soul of benevolence, and aspired after every object of a liberal and a dignified ambition. He was ripe for the highest honours of his profession; his merits were every day becoming more conspicuous, and nothing but his premature fate deprived him of that extraordinary de-

premature rate deprived nim of that extraordinary degree of public confidence which awaited a longer continuance of his life."—N. F. Med. Repos. A.]
SMY RNON HORTENSE. See Imperatoria ostruthium.
SMY RNIUM. (So called from guppa, myrrh, the smell of the seed resembling that of myrrh very much.)
The name of a genus of plants. Class, Pentandra;

Order, Digynia.

Order, Digynia.

SNYRNUM OLUSATRUM. The systematic name of the plant called Alexanders. Hipposclinum; Smyrnium; Macerona; Macedonisium; Herba alexandrina; Greichum; Agriosclinum. Common Alexanders. This plant was formerly cultivated in our gardens, for culinary use, but is now superseded by scelery. The seeds are bitter and aromatic, and the roots are more powerfully bitter. They stand recommended as resolvents, diuretics, and emmenagogues, though seldom used in medical prescriptions. used in medical prescriptions.

SMYRNIUM ROTUNDIFOLIUM. The blanched leaves of this species are said to be more agreeable than those of the olusatrum.

SNAIL. See Limax.

Snail-seeded glasswort. See Salsola kali. SNAKE. Anguis. The flesh was formerly made into broth as a restorative.

The Coluber natrix, of Linnæus. Snake, common. The Coluber natrix, of Linnaus. Snake, rattle. See Coluber. SNAKEROOT. See Aristolochia serpentaria, and

Polygala senga.

[Snake-root, black. See Cimicifuga. A.
SNAKEWEED. See Polygonumbistorta.
SNAKEWOOD. See Colubrinum lignum.

SNAREWOOD. See Columnum agrum.
Snake-killing birthwort. See Aristolochia anguicida.
SNAP-DRAGON. See Antirrhimum.
SNEEZEWORT. (So called, because the dried
flowers and roots, when powdered, cause sneezing when
applied to the nose.) See Achillea ptarmica.
SNEEZING. Snermutatio. A convulsive action
of the muscles of the chest from irritation of the nos-

trils.

SNUFF. See Nicotiana.

SOAP. See Sapo.

SOAP-BERRY. See Saponaria officinalis.

SOAP, MOUNTAIN. A pale brownish black mineral, which has a greasy feel; writes, but does not soil; and occurs in trap rocks in the liste of Skye. It is

weed in crayon painting.
SOAP-STONE. See Steatite.
SOAP-TREE. See Saponaria.
SOAP-WORT. See Saponaria.

Socotorine aloës. Aloës brought from Socotora

SO'DA. (An Arabian word.) The name now universally given by chemists and physicians to the mineral alkali.

It is obtained from several sources, but principally from plants growing on the sea coast. It occurs in the mineral kingdom, united with sulphuric, muriatic, and boracic acids; it is also found in large quantities in Egypt, combined with carbonic acid. It appears to be deposited in large impure masses, under the surface of Egypt, combined with use deposited in large impure masses, under the surface of the earth, in various countries, from which it is extracted by running waters. Thus it is found, after the spontaneous evaporation of the water, mixed with sand in the bottom of lakes in Hungary; in the neighbourhood of Billin in Bohemia; and in Switzerland. It occurs also in China, and near Tripoli; in Syria, Egypt, Persia, and India. If frequently oozes out of wails and crystallizes on their surface. Like potassa, it is procured by livivation from the ashes of burnt plants, but only from those which grow upon the sea-shores. The only from those which grow upon the sea-shores. The variety of plants employed for this purpose is very variety of plants employee to this purpose is very considerable. In Spain, sodals procured from different species of the Salsola and Salicornia, and the Batis maritima. The Zostera maritima is burnt in some places on the borders of the Batic. In this country

we burn the various species of fuci; and in France they burn the Chenopodium maritimum. See Sada

The alkali thus procured is more or less pure, according to the nature of the particular plant from which it is obtained. The greatest part, however, is a subcarbonate of soda

"To procure pure soda, we must boil a solution of the pure carbonate with half its weight of quicklime, and after subsidence decant the clear ley, and evapo rate in a clean iron or silver vessel, till the liquid flows quietly like oil. It must then be poured out on a po-lished iron plate. It concretes into a hard white cake. which is to be immediately broken in pieces, and put up, while still hot, in a phial, which must be well corked. If the carbonate of soda be somewhat impure, then, after the action of lime, and subsequent concentration of the ley, alkohol must be digested on it, which will dissolve only the caustic pure soda, and leave the heterogeneous salts. By distilling of the alkohol in a silver alembic, the alkali may then be obtained pure.

This white solid substance is, however, not absolute soda, but a hydrate, consisting of about 100 soda + 28 water; or of nearly 77 + 23, in 100. If a piece of this soda be exposed to the air, it softens and becomes pasty; but it never deliquesces into an oily looking liquid, as potassa does. The soda in fact soon becomes drier, because by absorption of carbonic acid from the air it passes into an efflorescent carbonate. Soda is distinguishable from potassa by sulphuric acid, which forms a very soluble salt with the former, and a sparingly soluble one with the latter; by muriate of platina and tartaric acid, which occasions precipitates

with potassa salts, but not with those of soda.

The basis of soda is a peculiar metal, called sodium, discovered by Sir H. Davy in 1807, a few days after he discovered potassium. It may be procured in exactly the same manner as potassium, by electrical or chemi cal decomposition of the pure hydrate. A rather higher degree of heat, and greater voltaic power, are required to decompose soda than potassa. Sodium resembles potassium in many of its characters. It is as white as silver, possesses great lustre, and is a good conductor of electricity. It enters into fusion at about 280° Fahr., and rises in vapour at a strong red heat. Its sp. gr. is, according to Gay Lussac and Thenard, 0.972, at the temperature of 59° Fahr. In the cold, it exercises scarcely any action on dry air, or oxygen. But when searcety any action on dry air, or oxygen. But when heated strongly in oxygen or chlorine, it burns with great brilliancy. When thrown upon water, it effervesces violently, but does not inflame, swims on the surface, gradually diminishes with great agitation, and renders the water a solution of sodu. It acts upon most substances in a manner similar to potassium, but with less energy. It tarnishes in the air, but more slowly; and, like potassium, it is best preserved under

Sodium forms two distinct combinations with oxygen; one is pure soda, whose hydrate is above de-scribed; the other is the orange oxide of sodium, ob-served, like the preceding oxide, first by Sir H. Davy in 1807, but of which the true nature was pointed out, in 1810, by Gay Lussac and Thenard.

Pure soda may be formed by burning sodium in a quantity of air, containing no more oxygen than is sufficient for its conversion into this alkali; i. e. the metal must be in excess: a strong degree of heat must

be employed.

Pure soda is of a gray colour, it is a non-conductor of red heat for its fusion. When a little water is added to it, there is a violent action between the two bodies; the soda becomes white, crystalline in its appearance, and much more fusible and volatile. It is then the substance commonly called pure or caustic soda; but properly styled the hydrate.

The other oxide or peroxide of sodium may be formed by burning sodium in oxygen, in excess. It is of a deep orange colour, very fusible, and a non-conductor of electricity. When acted on by water, it gives off oxygen, and the water becomes a solution of soda. It defourable when strength horse durith more manufactured to the contract of the contract deflagrates when strongly heated with combustible

The proportions of oxygen in soda, and in the orange peroxide of sodium, are easily learned by the action of sodium on water and on oxygen. It a given weight of

sodium, in a little glass tube, be thrown by means of the finger under a graduated inverted jar filled with water, the quantity of hydrogen evolved will indicate the quantity of oxygen combined with the metal to the quantity of oxygen commined with the metal to form soda,; and when sodium is slowly burned in a ray of platma (fined with dry common sub), in oxygen in great excess, from the quantity of oxygen ab subed the composition of the peroxide may be learned. From Sir H. Davy's experiments, compared with those From Sir H. Davy's experiments, compared with those of Gay Linssac and Themand, it appears that the prime equivalent of sodium is 3.0, and that of dry soda, or protoxide of sodium, 4.0; while the orange oxide or dentoxide is 5.0. The numbers given by Themand are, for the first, 100 metal + 33.995 oxygen; and for the second, 100 metal + 67.990 oxygen.

Another oxide is described containing less oxygen than soda: it is therefore a sub-oxide. When sodium man some in is therefore a sub-oxide. When sodium is kept for some time in a small quantity of moist air, or when sodium in excess is heated with hydrate of soda, a dark grayish substance is formed, more inflammable than sodium, and which affords hydrogen by its

action upon water

Only one combination of sodium and chlorine is known. This is the important substance, common salt. It may be formed directly by combustion, or by decomposing any compound of chlorine by sodium. Sodium has a much stronger attraction for chlorine than for oxygen: and soda, or its hydrate, is decomposed by chlorine, oxygen being expelled from the first, and oxygen and water from the second.

Potassium has a stronger attraction for chlorine than sodium has; and one mode of procuring sodium easily, is by heating together to redness common salt and po-tassium. The chloride of sodium, improperly called the muriate, consists of 4.5 chlorine + 3.0 sedium. There is no known action between sodium and hydro-

gen or azote.

Sodium combines readily with sulphur and with Sodium combines readily with sulphur and with phosphorus, presenting similar phenomena to those presented by potassium. The sulphurets and phosphurets of sodium agree in their general properties with those of potassium, except that they are rather less inflaumable. They form, by burning, acidious compounds of sulphuric and phosphoric acid and soda.

compounds of suppure and phosphoric acid and soda. Potassium and sodium combine with great facility, and form peculiar compounds, which differ in their properties, according to the proportions of the constituents. By a small quantity of sodium, potassium is rendered fluid at common temperatures, and its ep. gr. is considerable distributed. is considerably diminished. Eight parts of potassium, and one of sodium, form a compound that swims in naphtha, and that is fluid at the common temperature of the air. Three parts of sodium, and one of potassium, make a compound fluid at common temperasum, make a compound fluid at common tempera-tures. A little potassium destroys the dor-lity of so-dium, and renders it very brittle and so. Since the prime of potassium is to that of sodium as 5 to 3, it will require the former quantity of potassium to elimi-nate the latter quantity of sodium from the chloride. The attractions of potassium, for all substances that have been examined, are stronger than those of so-dium.

Soda is the basis of common salt, of plate and crown-glass, and of all hard soaps.

The compounds of soda used in medicine are the following:

1. Sodæ acetas. 6. Sodæ murias. 2. --- boras. - phosphas 3. - carbonas. sulphas. 4. - subcarbonas. arbonas. 9. — tartras. ——ex- 10. Soda tartarizata. siccata. 11. Sapo durus.

Sobalagrama. A neutral salt formed of a combination of acetic acid with the mineral alkali. Its virtues are similar to those of the acetate of potassa.

SODA BORANATA. See Boraz. Soda, carbonate of. See Sodæ carbonas. Soda hispanica. See Sodæ impura. Soda hispanica. Eurificata. See Sodæ subcar-

Soda impura. Impure soda. Soda ; Barilla ; Bariglia; Barillor; Inatron; Natron; Anaton; Nitrum antiquorum; Aphronitrum; Baurach; Sal alkalinus fixus fossilus; Carbonas soda impurus; Subcarbonas soda impura. Soda. Barilla is the term given, in commerce, to the impure mineral alkali, imperfect carbonate of soda, imported from Spain and

the Levant. It is made by burning to ashes different | rous, brittle, and of a deep blue colour, approaching to plants that grow on the sea-snore, chiefly of the genus Salsada. Many have referred it to the Salsada kalt, of Linneus; but various other plants, on being burned, are found to afford this alkali, and some in a greater

proportion than this these are,

1. The Salsola sativa, of Linneus. Salsola sonda, I. The Satsola satists, of Linneux. Satistic roses, of Loshing Kali trepanerum satpanerum satural kali kepanerum satural satistica keresebus. Kali d'alicante. This grows abundantly on that part of the Spanish coast which is washed by the Mediterranean sea. This plant is deservedly first enumerated by Professor Murray, as it suppoies all the best soda consumed in Europe, which

suppose all the nest sont constanted in Europe, Winen by us is couled Spanish or Alicant soda, and by the Spanish merchants Bardia de Alicante.

2. Sulsoda soda, of Linnæus. Kali majus cochleato semme: Le Salicon. This species, which grows on the French Mediterranean coast, is much used in Landau and the salicant sounds. guedoc for the preparation of this salt, which is usually

exported to Sicily and Italy.

3. Salsola tragus, of Linnzus, affords an ordinary kind of soda, with which the French frequently mix that made in Languedoc. This adoleration is also practised by the Sichians, who distinguish the plant by

the term saivaggia

4. Salicornia herbacea, of Linnæus, is common in 3. Suscernia aereacea, or Littlacus, is common in sait marsies: and on the sca-shore all over Europe. Linnaus prefers the soda obtained from this plant to that of all the others; but though the quantity of al-kali which it yields is very considerable, it is mixed

with much common salt.

5. Salicornia arabica, of Linnaus, and also the Me-5. Salicornia arabica, of Linnæus, and also the Mesembryanthemum modiforum, and Plantago squarrosa. All these, according to Alpinus, afford this alkali. It has also been procured from several of the fuci, especially F. vesicolosus, and distinguished here by the name kelp. Various other marine plants might also be noticed as yielding an impure soda by combustion, but the principal are confined to the genus salsola, and that of salicornia. The salsola kali, on the authority of Rawolf is the species from which the sali is assentice. of Rawolf, is the species from which the salt is usually obtained in custern countries: which is brought to us in hard porous masses, of a speckled brown colour. Kelp, a still more impure alkali, made in this country by burning various sea-weeds, is sometimes called British barilla. The marine plants, collected for the purpose of procuring barilla in this country, are the Salsola kali, Solventing batting to the country at the Satsota Rate, Solventing current current. Zovetera maritimum, Priglochen maritimum, Chauspadium maritimum, Atripler portula-cailes et litturalis, Plantago maritima, Tamariz gallica, Erangeum maritimum, Sedum telephium, Dipsafullanum, sec. &c.

It is to be regretted, that the different kinds of soda which are brought to Europe an markets have not been sufficiently analyzed to enable us to ascertain with tolerable certainty the respective value of each; and, in deed, while the practice of adulterating this salt continues, any attempts of this kind are likely to prove fruitless. The best information on this subject is to be fruitless. The best information on this subject is to be had from Jessica, Mascoulle, Cadet, Bolate, and Sestini. In those places where the preparation of soda forms a considerable branch of commerce, as on the coast of the Mediterraneau, seeds of the salsola are regularly sown in a proper situation near the sea, which usually shoot above ground in the course of a fortnight.

About the time the seeds become ripe, the plants are pulled up by the roots, and exposed in a suitable place to dry, where their seeds are collected; this being done, the plan's are ned up in bundles, and burned in an oven constructed for the purpose, where the ashes are then, while hot, continually stirred with long poles. The salue matter, on becoming cold, forms a hard solid mass, which is broken in pieces of a convenient size for exportation.

According to chemical analysis, the impure sodas of commerce generally contain a portion of vegetable alkali, and neutral salts, as muriate of soda and sulphate of potassa, and not unfrequently some portion of iron is contained in the mass; they are, therefore, to be considered as more or less a compound, and their goodness to be estimated accordingly. The Spanish soda, of the best sort, is in dark-coloured masses, of a bluish tinge, very penderous, sonerous, dry to the touch, and externally abounding with small cavities, without any offensives mell, and very salt to the taste; if long expessed to the air, it undergoes a degree of spontaneous calemation. The best French soda is also dry, sono-

The soda which is mixed with small stones, which gives out a fætid smell on solution, and is white, soft, and deliquescent, is of the worst kind.

SODA MURIATA. See Soda murias. Soda MURIATICA. See Soda murias.

SODA MURIATICA. See Sode murias.

SODA PHOSPHORATA. Phosphorated soda. Alkals
minerale phosphoratum, of Bergman. This preparation is a compound of phosphoric acid and soda. It is
cathartic in the dose of half an ounce to an ounce;
dissolved in gruel it is not unpleasant, and it is said to
be useful in scrofula, bronchocele, rachitis, and gout,
is armall doses. in small doses.

Soda, subcarbonate of. See Soda subcarbonas. Soda, subcarbonate of, dried. See Soda subcarbonas ersiccata.

nas exstection.
Soda, sulphate of. See Soda sulphas.
Soda tartarizata. Tartarized soda, formerly known by the names of sul rupellensis, sul polychrestum Seignetti, and lately by that of notron tartarizatum. Take of subcarbonate of soda twenty ounces; supertartrate of potassa, powdered, two pounds; boiling water ten pints. Dissolve the subcarbonate of soda in the water, and add gradually the supertartrate of potassa; filter the solution through paper, and evaporate it until a pellicle forms upon the surface; then set it by that crystals may form. Having poured away the water, dry these crystals upon bibulous paper. This water, try these crystain apoli brouds paper. This salt consists of tartaric acid, soda, and potassa, the soda only combining with the superabundant acid of the super salt; it is therefore a triple salt, and it has been judged by the London College more convenient to exjudget by the London Conlege more convenient to express this difference by the adjective tartarizata, than to introduce the three words necessary to its description. It possesses mildly cathartic, diuretic, and deob struent virtues, and is administered in doses from one drachm to an ounce, as a cathartic, and in the dose of twenty to thirty grains in abdominal physconia, and torpidity of the kidneys.

torpulity of the Kidneys.

Soda tartarized. See Soda tartarizata.

SODE BORAS. See Boras.

SODE ARBONAS. Carbonate of soda. Take of subcarbonate of soda, a pound; subcarbonate of ammonia, three ounces; distilled water, a pint. Having previously dissolved the soda in water, add the ammopreviously dissolved the sourch water, and the amining then by means of a sand bath apply a heat of 1800 for three hours, or until the ammonia be driven off. Lastly, set the solution by to crystallize. The re off. Lastly, set the solution by to crystallize. The re maining solution may be evaporated and set by in the same manner, that crystals may again form. This salt, which is called also abrated soda, and natron, bears to the subcarbonate of soda the same relation that the carbonate of potassa does to its subcarbonate. pared in the same way, possesses the same compara-tive advantages, and contains, in like manner, double the quantity of carbonic acid.

Sode Murias. Muriate of soda. Alkali minerale

salinum; Sal communis; Sal culinaris; Sal fontium; Sal gemme; Sal marenus; Natura muriatum; Soda muriata. Common culinary salt. This salt is more abundant in nature than any other. It is found in proabundant in nature than any other. It is found in pro-digious masses in the internal part of the earth, in Cadabria, in Hungary, in Muscovy, and more especially Weilieska, in Poland, near Mount Capax, where the mines are very large, and afford immense quantities of salt. It is also obtained by several artificial means from sea-water. It possesses antiseptic, diuretic, and resolvent qualities, and is frequently employed in form of clyster, fomentation, lotion, pediluvium, and bath, in obstipation, against worms, gangrene, scrotulous tumours, herpetic eruptions, arthritis, &c.

SODE SUBBORAS. See Borar.
SODE SUBCARBONAS. Subcarbonate of soda. Song Surgarmonas. Subcarbonate of soda formerly called natron preparatum and sal soda. Take of impure soda, powdered, a pound; boiling distilled water, half a gailon. Buil the soda in the water for half an hour, and strain the solution; let the solution evaporate to two pints, and be set by, that crystals may form. Throw away the remaining solution. The pure crystals, thus formed of Alicant barilla, are colourless, transparent, lamellated, of a rhomboidal figure; and one hundred parts are found to contain twenty of alkali, sixteen of aerial acid, and sixty-four of water: but upon keeping the crystals for a length of water; but upon keeping the crystals for a length of time, if the air be not excluded, the water evaporates, and they assume the form of a white powder. According to Islin, one ounce of water, at the temperature of the state of the stat

rature 62° of Fahr, dissolves five drachms and fifteen | and saponaceous quality; and the opinion of Berguss grains of the crystals. This said consists of soda imgrains of the crystals. This salt consists of soda im-perfectly saturated with carbonic acid, and is there-fore called soda subcarbonas. It is given in doses of from ten grains to half a drachm as an attenuant and antacid; and joined with bark and aromatics, it is highly praised by some in the cure of scrofula. It is likewise a powerful solvent of mucus, a deobstruent and diuretic; and has been thought an antidote against and duretic; and has been thought an anudate against oxide of arsenic and corrosive sublimate. The other diseases in which it is administered are those arising from an abundance of mucus in the prime viæ, calculous complaints, gout, some affections of the skin, rickets, tinea capitis, crusta lactea, and worms. Externally it is recommended by some in the form of lotion, to be applied to scrofulous ulcers.

SODE SUBCARBONAS EXSICCATA. Dried subcarbonate of soda. Take of subcarbonate of soda, a pound. Apply a boiling heat to the soda in a clean iron vessel, until it becomes perfectly dry, and constantly stir it with an iron rod. Lastly, reduce it into powder. Its virtues are similar to those of the subcarbonate.

SODA SULPHAS. Sulphate of soda, commonly known by the name of natron vitriolatum, and formerly sal catharticus glauberi. Take of the salt which remains catharticus glauberi. Take of the salt which remains after the distillation of muriatic acid, two pounds. Boiling water, two pints and a haif. Dissolve the salt in the water, then add gradually as much subcarbonate of soda as may be required to saturate the acid; boil the solution away until a pellicle forms upon the surface, and, after having strained it, set it by, that crystals may form. Having poured away the water, dry these crystals upon bibulous paper. It possesses cathar-tic and diuretic qualities, and is in high esteem as a mild cathartic. It is found in the mineral kingdom formed by nature, but that which is used medicinally is prepared by art. The dose is from one drachm to one ounce

SODALITE. A green-coloured mineral discovered

in a bed of mica slate in West Greenland.

SODIUM. See Soda

SOL. The sun. Gold was so called by the older chemists

SOLA'MEN. (From solor, to comfort.) Anise-seed is named solamen intestinorum, from the comfort it affords in disorders of the intestines. SOLANO'IDES. (From solamum, night-shade, and

SOLANO IDES. (From solanum, night-shade, and cides, likeness.) Bastard night-shade.
SOLA'NUM. (From solor, to comfort, because it gives ease by its stupifying qualities.) 1. The name of a genus of plants in the Linnæan system. Class,

Pentandria: Order, Monogynia.

2. The pharmacopeial name of the solanum nigrum.
2. The pharmacopeial name of the solanum nigrum.
30 Lanum Dulcamara, The systematic name of the bitter-sweet. Dulcamara; Solanum scandens; Glycypicros, sive amaradulcis; Solanum lignosum. Expuxyos of Theophrastus. Woody night-shade. Solanum—caule inermi frutescente fexuosa; folicis superioribus hastatis; racemts cymoeis; of Linnaus. The roots and stalks of this night-shade, upon being chewed, first cause a sensation of bitterness, which is soon followed by a considerable degree of sweetness; and hence the plant obtained the name of bitter-sweet. The berries have not yet been applied to medical use; they seem to act powerfully upon the prime viæ, exciting violent vomiting and purging. Thirty of them were given to a dog, which soon became mad, and died in the space of three hours; and, upon opening his sto-mach, the berries were discovered to have undergone no change by the powers of digestion; there can, therefore, be little doubt of the deleterious effects of these berries; and, as they are very common in the hedges, and may be easily mistaken, by children, for red currants, which they somewhat resemble, this circumstance is the more worthy of notice. The stipites, or younger branches, are directed for use in the Pharm., and they may be employed either fresh or dried, making a pro-portionate allowance in the dose of the latter for some diminution of its powers by drying. In autumn, when the leaves are fallen, the sensible qualities of the plant are said to be the strongest; and, on this account, it should be gathered in autumn rather than spring. Dulcamara does not manifest those strong narcotic qualities which are common to many of the night shades; it is, however, very generally admitted to be a medicine of considerable efficacy. Murray says it promotes all the secretions; Haller observes, that it parakes of the milder powers of the night shade joined to a resolvent

lens urmam, sudorum, menses, lochia, sputa; mundifi-The diseases in which we find it recommended by different authors, are extremely various; but Bergius confines its use to rheumatisms, retentio mensium, et lochiorum. Dulcamara appears, also, by the experiments of Razoux and others, to have been used with advantage in some obstinate cutaneous affections. Dr. Cullen says, "We have employed only the stipites, or stender twigs of this shrub; but, as we have collected them, they come out very unequal, some parcels of them being very mild and inert, and others of them considerably acrid. In the latter state, we have employed a decoction of them in the cure of rheumatism, sometimes with advantage, but at other times without any effect. Though the dulcamara is here inserted in the catalogue of diuretics, it has never appeared to us as powerful in this way; for, in all the trials made here, i has hardly ever been observed to be in any measure diuretic." This plant is generally given in decoction, or infusion, and, to prevent its exciting nausea, it is ordered to be dituted with milk, and to begin with small doses, as large doses have been found to produce very dangerous symptoms. Razoux directs the following: B. Stipitum dulcam. rec. drac. ss in aquæ font. unc. 16 coquater ad unc. 8. This was taken in the dose of three or four drachms, diluted with an equal quantity of milk, every four hours. Linnæus directs two drachms, or half an ounce of the dried stipites, to be infused half an hour in boiling water, and then to be boiled ten minutes; and of this decoction he gives two teacups full morning and evening. For the formula of a decoction of this plant, according to the London Pharm. See Decoctum dulcamaræ.

SOLANUM FOITIDUM. The thorn-apple plant. See Datura stramonium.

Datura stramonium.

SOLANUM LETHALE. See Atropa belladonna.

SOLANUM LIGNOSUM. See Solanum dulcamara.

SOLANUM LYCOPERSICUM. The love-apple plant.

The fruit of this, called Tomata and tove-apple, is so much esteemed by the Fortuguese and the Spaniards, that it is an ingredient in almost all their soups and sauces, and is by them considered as cooling and nutritive. tritive

SOLANUM MELONGENA. The systematic name of the and apple plant. Its oblong egg-shaped fruit is often boiled in their native places, in soups and sauces, the same as the love-apple; is accounted very nutritive, and is much sought after by the votaries of Venus.

SOLANUM NIGRUM. The systematic name of the garden night-shade, which is highly deleterious. SOLANUM SANCTUM. The systematic name of the Palestine night-shade. The fruit of which is globular,

and in Egypt much eaten by the inhabitants.

Solanum Tuberosum. Batatas; Solanum esculentum; Kippa; Kelengu; Papas Americanus; Papa pus Americanus; Convolvulus Indicus. The potato plant, a native of Peru, first brought into Europe by Sir Francis Drake, 1486, and planted in London. See

SOLANUM VESICARIUM. The winter-cherry plant is so called by Caspar Bauhin. See Physalis alkekengt. (A solidando; from its uses in s.) The sea convolvulus. See SOLDANELLA. from its uses in healing fresh wounds.) Convolvulus soldanella.

SO'LEN.  $\Sigma \omega \lambda \eta \nu$ . A tube or channel. A cradle for a broken limb.

SOLENA'RIUM. (Diminutive of σωλην, a tube.)

SO'LEUS. (From solea, a sole: from its shane being like the sole-fish.) See Gastrocnemius internus. SOLIDA'GO. (From solido, to make firm: so called from its uses in consolidating wounds.) The name of a genus of plants in the Linnæan system. Class, Syn-genesia; Order, Polygamia superfina. The herb

SOLIDAGO VIRGAUREA. The systematic name of the golden rod. Virga aurea; Herba dorea; Conyta coma aurea; Symphytum; Fetraeum; Elichrysum; Consolida saracenica and aurea. Golden rod. The leaves and flowers of this plant are recommended as aperients and corroborants in urinary obstructions, ulcerations of the kidneys and bladder, and it is said by some to be particularly useful in stopping internal hæmorrhages.
SOLIDS. In anatomy, are the bones, ligaments,

membranes, muscles, nerves, and vessels.

Solitary. SOLITARIUS. Applied to worms in the body, and to leaves, stems, footstalk, &c. when either single on a plant, or only one in the same place.

SO'LIUM. (From solus, alone: so called because it

infests the body singly.) The tape-worm. See Tania.
Solomon's seal. See Convallaria polygonatum.
SOLSE'QUIUM. (From sol, the sun, and sequor,
to follow: so called because it turns its flowers toward
the sun.) Marigold or turnsole. See Heliotropium.

the sun.) Mangour of tunison.

SOLVENT. See Menstruum.

SOLUTION. Solutio. An intimate commixture bif solid bodies with fluids, into one seemingly homogeneous liquor. The dissolving fluid is called a men-

struum or solvent.
SOLUTI'VA. (From solve, to loosen.) Laxative

SOMMITE. See Nepheline.
SOMNAMBULISM. See Oneirodynia.
SOMNIFEROUS. (Somniferus; from somnus, sleep, and fero, to bring.) Having the power of inducing

[Somnium. This is a term introduced by Dr. Mitchill, to designate the state between sleeping and waking, in which persons perform acts of which they are unconscious. It includes all those states of the system in which persons walk, talk, sing, dream, &c. during which they are neither perfectly asleep nor awake. This state of Sommium may be divided into

awake. This state of Sommum may be divided into Symptomatic, and Idiopathic,
I. Symptomatic Somnium.

1. Somnium, from indigestion (a dyspepsia), when from too much food, or too feeble a condition of the stomach, there is a fermentation with acidity, eructations, and pain or uneasiness, followed by troublesome

2. Somnium from the nightmare (ab incubo), supposed to arise from some impediment to the free circulation of the blood through the heart and lungs; always unpleasant and sometimes frightful. The memory here is active, but the will is suspended, and the enorts to exert it fails. Persons are supposed to have died in fits of incubus.

3. Somnium from effusions of water in the chest (ab hydrothorace), believed to proceed from anxiety about the vital parts, caused by lymph in the pericardium or thorax. Terrifying dreams rousing the patient suddenly are the common consequences of this disorder. This and the preceding are the One-trodynia of Nosologists.

4. Somnium from a feverish state of the body (a febre), caused by an undue and irregular excitement of the brain. This is known by the name of high deliri-

um, or sometimes furor

5. Sommium from debility (cum debilitate), where there is not excitement enough to embody ideas in steady trains. Memory and imagination act in a con-

fused and irregular manner. Low delirium.

6. Somnium from fainting (cum asphyxla), where,

though there is an exhaustion of vital power, and the individual appears to be dead, there is life enough in the body to prevent putrefaction. The animal functhe body to prevent purrelaction. The annual func-tions do not seem to be so much depressed as the vital; for, on recovery, the individual relates what he witness-ed during the trance in which he lay, while in the very lowest ebb of life.

Somnium from fresh and vivid occurrences (a recentibus), as when dreams can be traced to some conversation or occurrence of the day, or to some actual condition of the body. Common dreaming.

8. Somnium from old and forgotten occurrences (ab

obsoletis), when long-lost images are renewed to the memory, and dead friends are brought before us

9. Somnium from an overloaded brain (a plethora), with symptoms bordering on epilepsy, apoplexy, and

catalepsy. Sometimes called typhomania.

10. Somnium of a prospective character (a prophetia), when the dreamer is engaged in seeing funeral protessions, and foretelling events by a sort of second sight, as it is called. This disease is symptomatic of a pecullar state of body, running in families like gout, consumption and insanity

11. Somnium, from vivid impressions on the internal organ of sight (a visione), where visual images are so strong, that the dreamers are called Seers, because they see so much, and their sights are termed Visions,

inasmuch as the eyes are so peculiarly concerned.

12. Somnium from the conditions of other corporeal " volumitu), causing dreams.

13. Somnium (a respiratione) from inhaling nitrous oxide gas, depriving the person of consciousness and will, and inspiring delightful sensations.

14. Somnium (a toxico) from doses of opium, hyoscyamus datura, and other narcotic plants, taken into the stomach, disturbing the will and exciting strange

15. Somnium from drunkenness (ab ebrietate), caused by drinking spirituous liquors, overcoming conscious-

ness and spontaneity.

II. Idiophathic Somnium.

1. Somnium, from abstraction, where the internal senses are so engaged that there is no knowledge, or an engaged that there is no knowledge. imperfect one, of the passing events, constituting what is termed Reverie; where fauciful trains of the thought are indulged at considerable length.

2. Somnium, with partial or universal lunacy (cum insanitate), vitiating the mind with some fundamental error on a particular subject, or disturbing and confounding all the operations of the animal mind. This characterizes some forms of madness and melancholy.

3. Somnium, with talking (cum sermone), where the ideas of the mind are uttered in audible words, as in a wakeful state : called frequently, Somniloquism, or

sleep talking on ordinary subjects.

sleep talking on ordinary subjects.

4. Somnium, with walking (cum ambulatione), where the person rises from bed, walks about, frequently goes abroad, without the smallest recollection that any volition had been exerted on the occasion: the whole affair is forgotten, and not a trace left in the memory: this is called sommambulism.

5. Somnium, with invention (cum inventione), as when unbidden ideas rise in the mind in a methodical series, and form a poetical sonnet, different from anything known before, and unattainable by the waking powers. These are sometimes reduced to writing at the time and found afterward, though the act of committing them to paper is generally forgotten. On other occasions the memory preserves the particulars of such dreams

6. Somnium, (cum hallucinatione) with mistaken impressions of sight, and sometimes of hearing, so strong as to enforce a conviction of their reality. Many visions, conversations, and mistaken representations gain currency in this way. The patients being unwii-tingly deceived themselves, propagate with an honest zeal their delusions, and labour to gain the assent of

their friends and acquaintances.
7. Somnium, with singing (cum musica), wherein the person, though unable to raise a note when awake, becomes capable in the somnial condition of uttering

sounds in most melodious accents.

8. Somnium, with ability to pray and preach (cum religione), or to address the Supreme Being and human auditors in an instructive and eloquent manner, without any recollection of having been so employed, and with utter incompetency to perform such exercises of devotion and instruction when awake.

See these states of Somnium, illustrated by cases, published in New-York, in 1815, under the title of "DEVOTIONAL SOMNIUM," &c. containing the account of Rachel Baker, &c. Notes from Dr. M.'s lectures of RACHEL BAKER, &c.

on Mat. Mad. A.]
SONCHITES. (From σογχος, the sow thistle: so named from its resemblance to the sonchus.) The

herb hawkweed.

SO'NCHUS. (Παρα το σωον, χεειν; from its wholesome juice.) The name of a genus of plants in the Linnæan system. Class, Syngenesia; Order, Polygamia aqualis. The sow-thistle.

SONCHUS OLERACEUS. The systematic name of the we-thistle. Most of the species of souchus abound sow-thistle with a milky juice, which is very bitter, and said to possess diuretic virtues. This is sometimes employed with that intention. Boiled it may be eaten as a substitute for cabbage.

SOOT. See Fuligo.

SO PHIA. (From σοφος, wise: so named from its great virtues in stopping fluxes.) Flix-weed or fluxweed. See Sisymbrium.

SOPHISTICATION. A term employed in phar-

macy, to signify the counterfeiting or adulterating any medicine. This practice unhappily obtains with most dealers in drugs, &c.; and the cheat is carried on so artificially by many as to prevent a discovery even by persons of the most discerning faculties.

SOPHO'RA. (A name of most whimsleal origin, berries of this plant are adstringent, and, it is said Sophera is, according to Prosper Alpinus, the Egyptian denomination of a species of cassia, the Cassia sophera of Linnaus, nearly related to this genus. mens, spelling it sophora, calls it a genus sophorum, or of wise men; as teaching that separate stamens, in the papilionaceous family, if ever the limits of that family can be determined, afford so decisive a mark of discrimination, as almost to exclude the plants furnished with such, from the same natural class, or order, with those the filaments of which are combined.) name of a genus of plants. Class, Decandria; Order, Monogynia.

SOPHORA HEPTAPHYLLA. The systematic name of the shrub, the root and seeds of which are sometimes called anticholerica; they are both intensely bitter, and said to be useful in cholera, colic, and dysury.

SOPHRONISTE RES. (From σωφοριίζω, to ba come wise: so called because they do not appear till after puberty.) The last of the grinding-teeth.

after puberty.) The last of the grinding-teeth. SOPIE NTIA. (From sopio, to make sleep.) Mc-

SOPOR. Profound sleep.
SOPOR. Profound sleep.
SOPORTEROUS. (Soporiferus; from sopor, sleep, and fero, to hear.) A term given to whatever induces sleep. See Analyme.
Sora. (Arabian.) The nettle-rash.

induces sleep. See Anadyne.
So RA. (Arabian.) The nettle-rash.
Sorrasfree LLA. (Prom sorbeo, to suck up; because it stops hemorrhages.) The herb burnet. See Funginella saxifraga.

SORBATE. A compound of sorbic or malic acid, with the salifiable basis.

SORBIC ACID. (deidum sorbicum; from sorbus, the mountain ash, from the berries of which it is obtained. "The acid of apples called male, may be obtained most conveniently and ingreatest purity from the berries of the mountain ash, called sorbus, or pyrus aucuparia, and hence the present name, sorbic acid. This was supposed to be a new and peculiar acid by Donovan and Vanquelin, who wrote good disserta-tions upon at. But it now appears that the sorbic and

pure malic acids are identical.

Bruse the ripe berries in a mortar, and then squeeze them in a linen bag. They yield nearly half their weight of juice, of the specific gravity of 1.077. This viscid junce, by remaining for about a fortnight in a warm temperature, experiences the vinous termentation, and would yield a portion of alkohol. By this change, it has become bright, clear, and passes easily through the filter, while the sorbic act vitself is not altered. Mix the clear juice with filtered solution of acctate of lead. Separate the precipitate on a filter, and wash it with cold water. A large quantity of boiling water is then to be poured upon the filter, and allowed to drain into glass jars. At the end of some hours, the solution de-posites crystals of great lustre and beauty. Wash these with cold water, dissolve them in boiling water, filter, and crystallize. Collect the new crystals, and boil them for half an hom in 2.3 times their weight of sulphuric acid, specific gravity 1.090, supplying water as fast as it os aporates, and shring the maxine diligently with a glass rod. The clear liquor is to be decanted into a tall narrowglass jar, and while still hot, a stream of sulphuretted hydrogen is to be passed through it. When the lead has been all thrown down in a suiphuret, the liquor is to be filtered, and then boiled in an open vessel to dissipate the adhering sulphuretted hydrogen. It is now a solution of sorbic acid.

When it is evaporated to the consistence of a syrup, it forms manunciated masses of a crystalline structure It still contains a considerable quantity of water, and defiquences when exposed to the air. Its solution is transparent, colourless, void of smell, but powerfully acid to the taste. Lime and barytes waters are not precipitated by solution of the softe acid, atthough the solution of lime is nearly insoluble. One of the most characteristic properties of this acid, is the precipitate which it gives with the acetate of lead, which is at first which it gives with the acctate of lead, which is at first white and flocculent, but afterward assumes a bril liant crystalline appearance. With potassa, soda, and ammonia, it forms crystallizable salts containing an excess of acid."

SO'RBUS. (From sorbeo, to suck up: because its fruit stops fluxes.) The name of a genus of plants in the Linnean system. Class, Icosandria; Order, Trimnia. The service-tree.

gynia. The service-tree.

Sorbus Auguparia. The wild service-tree. The

have been found serviceable in allaying the pain of calculous affections in the kidneys.

SO RDES. When the matter discharged from ul-cers is rather visud, glutinous, of a brownish red coceis is rather viscol, glutinous, of a brownish red co-lour, somewhat resembling the grounds of coffee, or grunnous blood inveed with water, it is thus named. Sureles, Sarnos, and letter, are all of them much more fierid than purulent matter, and none of them are also-gether free from acrimony; but that which is generally termed letter, is by much the most acrid of them, being from early as charm and acrossic notice that frequently so sharp and corrosive as to destroy large quantities of the neighbouring parts.

Sore, hay. A disease which Dr. Mosely considers as

a true cancer, commencing with an ulcer. It is ende-

mic at the Bay of Hondmas.

SORE THROAT. See Cunanche. SORREL. See Rumer acctosa.

Sorrel, Francis. See Ramer securatus.
Sorrel, reund leared. See Rames scatatus.
Sorrel, wood. See Ozalis acetosella.
SOUND. 1. An instrument which surgeous intro-

duce through the urethra into the bladder, to discover whether there is a stone in this viscus or not.

2. See Hearing. SOUR DOCK. See Rumer acetosa.

SOUTH DOCK. See Ruman accesses.
SOUTHERNWOOD. See Artemovia abrotanum.
SOW BREAD. See Cyclamen.
SPA. A town in France, in the department of the
Ourte, famous for its mineral water, which appears to be a very strongly acidulous chalybeate, containing more iron and carbonic acid than any other mineral spring. What applies to the use of chalybeates will apply to this water.

An elongated receptacle or flower-bearing column, which emerges, mostly, from a spathe or sheath, as it does in . Irum macula.um, Calla athropica, and palustres; but the Acorus calamus has a spadix with-

out any sheath.

The inflorescence of palms, and some other plants, is a branched spadiz; as the Chamarops humilis, Musa, &c. Spain, pellitory of.

See Anthemis pyrethrum. Spanish flu. See Conthares.

Spanish liquorice. See Glycyrrhiza.

See Fluor Spar, fluor.

Spar, panderous. See Heavy-spar, and Barytes. Spar, tabular. See Tabular spar. SPARGANO'SIS. (From σπαργαω, to swell.) Λ milk abscess.

Sparry anhydrite. A sulphate of lime. See Anhy-

SPARRY IRON. A carbonate of iron, of a pale yellowish gray colour, found in limestone in Eng-land, Scotland, and Ireland, and in large quantities in

SPARSUS. Dispersed, irregularly scattered. Frequently used in medicine, anatomy, and botany, to emptions, glands, leaves, flower-stalks.

SPARTIUM. (2maphon of Dioscorides: so called

from  $\sigma\pi\alpha\rho\eta\eta$ , a rope; because of the use of the long, slender, tough branches, or bark, in making cordage.) The name of a genus of plants in the Linnwan system.

Class. Dinoclphen; Order, Decondria.

Spartium scoparium. The systematic name of the common broom. Gransta. The tops and leaves of this indigenous plant, Spartium—folias ternatis solitariesque, romes incrucibos ongulates, of Linneus, are the parts that are employed medicinally; they have a bitter taste, and are recommended for their purgative and doubte qualities, in hydropic cases. SPASMI. Spasmodic diseases. The third order of the Class Neuroscs, of Cullen; characterized by a

morbid confeaction or motion of muscular fibres.

SPASMODIC. Spasmodicus. Belonging to a spasm,

or convulsion.

Spasmodic colic. See Colica. SPASMOLOGY. Spasmon Spasmologia; from σπασμος, a spasm, and ho; os, a discourse.) A treatise on convul-

SPASMUS. (Spasmus; from oraw, to draw.) A cramp, spasm, or convulsion. An involuntary contraction of the muscular fibres, or that state of the contraction of nancties which is not spontaneously dis-posed to alternate with relaxation is properly termed spasm. When the contractions alternate with relaxation, and are Lequently and preternaturally repeated,

they are called convulsions. Spasms are distinguished by authors into clonic and tonic spasms. In clonic spasms, which are the true convulsions, the contrac tions and relaxations are atternate, as in epilepsy; but in tonic spasms the member remains rigid, as in locked jaw. See Convulsion, Tonic spasm, and To-

Spasmus cynicus. Sardonic laugh. A convulsive affection of the muscles of the face and lips on both sides, which involuntarily forces the muscles of those Sides, which invalidating parts into a species of grinning distortion. If one side only be affected, the disorder is nominated tortura oris, when the masseter, buccinator, temporal, nasal, and labial muscles, are involuntarily excited to action, or contorted by contraction or relaxation, they form a species of malignant speci. It sometimes arises from eating hemlock, or other acrid poisons, or succeeds to an apoplectic stroke.

an apopectic stroke. SPA/TILA. (From σπαθη, a slice, or ladle.) A botanical term. A sheath, or covering of an immature flower which burst longitudinally, and is more or less remote from the flower. From the number of membranes, which are called valves, and of the flowers, and of the flowers,

and their duration, it is named,

Spatha univalvis, having only one membranous; as in . Irum maculatum, and Crocus sativus.

Bivalvis, in Stratiates alrendes.

Dimidiata, or lacera, there being only one valve, and that covering the flower only partially; as in Izia uniflora, and africana.

4. Vaga, the common sheath enclosing several partial ones; as in Iros vermanava and beliances.

tial ones, as in Iris garannea, and hedanca.

5. Unifora, containing only one flower; as the Narcissus portrois, Psoudo-narcissus, and Ameryllis formusissema.

6. Biflora, with two; as in Apina racemosa, and Morga regeta.

Multiflora; as in Allium, Narcissus jonquilla,

and Pancreatium carabeum. 8. Spatha persistens, remaining with the fruit; as in Heliconia bibai.

9. Marcescens, withering before or soon after the flowering: as in Allia and Leacojum vernum.

SPATHOMETE. (From  $a\pi a\theta \eta$ , a sword, and  $\mu \eta \lambda \eta$ , a probe.) An edged probe. SPATULA. (Diminutive of spatha, a broad in-

strument.) An instrument for spreading salve. Also a name of the herb spurgewort, from its broad leaves. SPATULATUS. Spatulate: applied to leaves, &c.

of a roundish figure, tapering into an oblong base; as

SPEARMINT. See Montha viridis.

SPEARMINT. See Aboutae viewis.

Spearwort, water. See Remuneades flammula.

SPECIFIC. Specificus. A remedy that has an infallable elineacy in the cure of disorders. The existence of such iemedies is doubted.

Succific gravity. See Gravity, specific.

SPECI LLUM. (From specin, to examine.) A

probe

SPECULUM. (From spacio, to view.) An instrument for opening or obtaining a view of parts within each other; as Speculum oculi, Speculum oris, Speculum ani, &c.

Specific M AM. An instrument for distending the anus, while an operation is performed upon the parts within.

SPECULUM MATRICIS. An instrument to assist in any manual operation belonging to the womb.

Streetlest oct ii. An instrument used by oculists to keep the cyclids open and the eye fixed.

SPECULUM ORIS. An instrument to force open the mouth.

SPECULUM VENERIS. See Achillea millefolium.

Subsection veneris. See Relative ministrum.
SPEECH. See Voice.
SPEEDWELL. See Veronica.
Speedwell, female. See Interchinum elatine.
Speedwell, meantain. See Veronica.
SPERMA CITI. (From orsopus seed, and cete, or cetus, the whate.) See Playseta macrow-phalus.
SPERMA TIU. (Speedwatens; from orsona, seed.
Belonging to the testicle and ovary; as the sperma lie arrew, chord, and veins.
SPERMATOUE LE. (From orsopa, seed, and color, and manour.) Emiliatum's distense. A swelling

κηλη, a tumour.) Epididymis distensa. A swelling of the testicle or epididymis from an accumulation of semen It is known by a sweding of those organs, SPERMATOPOE'TICA. (From σπερμα, and ποιεω, to make.) Medicines which increase the generation of

SPERMORRHŒ'A. (From σπερμα, semen, and οεω, fluo.) The name of a genus of diseases in Good's Nosology. Class, Genetica; Order, Cenotica. Seminal flux. It has two species, viz. Spermorrhæa ento

nica, and atonica.
SPHACEIA SMUS. (From σψακελιζω, to gan-

grene.) 1. A gangrene. 2. A phrenitis. SPHA'CELUS. (Fr

2. A phremus.
SPHA-CELUS. (From σφακω, to destroy.) A
montification of any part. See Gangrene.
SPH.E NOIDES. See Sphenoides.
SPHEBRITIS. (From σφακα, a globe: so called
from its round head.) Spherocephalia elutior. Sphærocephalis. The globe-thistle.
SPHERO'MA. (From σφακρα, a globe.) A fleshy,
globular negulibraries.

globular protuberance.
SPHÆRULITE. A brown and gray-coloured mi-norral, found m inhedded roundish balls and grains, in pearlstone and pitchstone porphyries, near Schem-

SPHE'NO. Names compounded of this word be-long to the sphenoid bone.

SPHENO STAPHYLINES. See Lecutor pulati.
SPHENO STAPHYLINES. See Circumfezus.
SPHENO STAPHYLINES. See Lecutor pulati.
SPHENO STAPHYLINES. See Lecutor pulati.
SPHENO DAL. Sphenoidalis. Belonging to the sphenoid bone.

sphenoid bone.

Settevoral syrure. Satura sphenoidalis. The sphenoidal and ethnoidal satures are those which surround the many irregular processes of those two hones, and join them to each other and to the rest.

SPHENOTDES OS. (From \$\sigma\_{pp}\$), a wedge, and cabos, a fikeness; because it is fixed in the cratium like a wedge.) Os canedyraw; Os multiprome; Os asygos: Papillare os; Basalare os; Os polymor plus. Petrygoid bone. The os sphenoides, or cuneiforme, as it is called from its wedge-like situation amidst the other bones of the head, is of a more irregular figure than any other bone. It has been compered to a bat with its wings extended. This resemblance is but faint, but it would be difficult perhaps to find any taing faint, but it would be difficult perhaps to find any thing

it resembles more.
We distinguish, in this bone, its body or middle part, and its wings or sides, which are much more extensive

Each of its wings or lateral processes is divided into two parts. Of these, the uppermost and most consi denate portion, helping to form the deepest part of the temporal fossa on each side, is called the temporal process. The other portion makes a part of the orbit, and is therefore named the orbitar process. The tack part of each wing, from its running out sharp to neet the os petrosum, has been called the spinous process; and the two processes, which stand out almost perpendicular to the basis of the skull, have been named proragard or obstarm processes, though they may be said rather to resemble the legs than the wings of the bat. Taking to resemble the legs that the wargs of the out. Each of these processes has two plates and a middle fossa facing backwards; of these plates, the external one is the broadest, and the internal one the longest. The lower end of the internal plate forms a kind of hook, over which passes the round tendon of the musculus circumflexus palati. Besides these, we observe a sharp middle ridge, which stands out from the middle of the bone. The forepart of it, where it joins the nasal lamella of the ethnoidal bone, is thin and straight; the lower part of it is thicker, and is recrived into the vomer.

The cavities, observable on the external surface of the bone, are where it helps to form the temporal,

nasal, and orbitar toss

It has likewise two fossæ in its pterygoid processes. Beand the edge, which separates these two fossa, we observe a small groove, made by a branch of the superior maxillary nerve, in its passage to the temporal muscle. Besides these, it has other depressions, which

Interest Postars freet in master dependences and with serve chiefly for the origin of the muscles. Its foramina are four on each side. The three first serve for the passage of the optic, superior maxillary, and inferior maxillary nerves; the fourth transmits are largest artery of the dura mater. On each side we observe a considerable fissure, which, from its situation, may be called the superior orbitar fissure. Through it pass the third and fourth pair of nerves, a branch of the fifth, and likewise the sixth pair. Lastly, at the basis of each pterygoid process, we observe a foramen which is named pterygoidem, and sometimes Fidtan, from Vidius, who first described it. Through it passes a branch of the external carotid, to be distributed to the pass. be distributed to the nose.

The os sphenoides, on its internal surface, affords three fosses. Two of these are considerable ones; they are formed by the lateral processes, and make part of the lesser fosses of the basis of the skull. The part of the lesser losses of the basis of the swall. The third, which is smaller, is on the top of the body of the bone, and is called sella turcica, from its tesemblance to a Turkish saddle. In this the pituitary gland is placed. At each of its four angles is a process. They are called the clinoid processes, and are distinguished by their situation into anterior and posterior processes. The two latter are frequently united into one.

Within the substance of the os sphenoides, mimediately under the sella turcica, we find two cavities, separated by a thin bony lamella. These are the sphenoidal sinuses. They are lined with the pituitary membrane, and, like the frontal sinuses, separate a mucus which passes into the nostrils. In some subjects, there is only one cavity; in others, though more

jects, there is only one cavity; in others, though more rarely, we find three.

In infants, the os sphenoides is composed of three pieces, one of which forms the body of the bone and its pierygoid processes, and the other two its lateral processes. The clinoid processes may even then be perceived in a cartilaginous state, though some writers have asserted the contrary; but we observe no appearance of any sinus.

This bone is connected with all the bones of the cranium, and likewise with the ossa maxillarla, ossa malarum, ossa palati, and vomer. Its uses may be malarum, ossa parati, and vomes.

collected from the description we have given of it.

SPHINCTER. (From  $\sigma\phi_{1}\gamma/\omega$ , to shut up.) The name of several muscles, the other of which is to shut or close the aperture around which they are placed.

SPHINCTER ANI. Sphincter externits, of Albinus and Dougles. Sphincter cutaneus, of Winslow; and coccigib-cutant-sphincter, of Dunnas. A single muscle of the anus, which shuts the passage through the anus into the rectum, and pulls down the bulb of the ure-thra, by which it assists in ejecting the urlne and semen. It arises from the skin and fat that surrounds the verge of the anus on both sides, nearly as far as the tuberosity of the ischium; the fibres are gradually collected into an oval form, and surround the extremity of the rectum. It is inserted by a narrow point into the perineum, acceleratores uring, and transversi perinei; and behind into the extremity of the os coccygis, by an acute termination.

SPHINCTER ANI CUTANEUS. See Sphincter ani.
SPHINCTER ANI EXTERNUS. See Sphincter ani.
SPHINCTER ANI INTERNUS. Albinus and Douglas

call the circular fibres of the muscular coat of the rectum, which surround its extremity, by this name.

SPHINCTER CUTANEUS. See Sphincter uni. SPHINCTER EXTERNUS. See Sphincter ani.

SPHINCTER GULE. The muscle which contracts the top of the throat.

SPHINCTER LABIORUM. See Orbicularis oris. SPHINCTER ORIS. See Orbicularis oris.

SPHINGTER VAGINE. Constrictor cunni, of Albinus. Second muscle of the clitoris, of Douglas; and anulosyndesmo-clitoridien, of Dumas. This muscle arises from the sphincter and and from the posterior side of the vagina, near the perineum; from thence it runs up the side of the vagina near its external orifice, opposite to the nymphæ, covers the corpus cavernosum, and is

inserted into the crus and body, or union of the crura clittoridis. Its use is to contract the mouth of the vagina.

Sphingo'nta. (From σφιγ/ω, to bind.) Astringent medicines

SPHONDY'LIUM. (From σπονδυλος, named from the shape of its root, or probably because it was used against the bite of a serpent, called σποιδυλις.) This is supposed to be the branckursine. See Acanthus mollis.

A species of Lemnian earth.

SPHRONGIDIUM. See Columnula.

SPICA. A spike. I. A species of inflorescence, consisting of one common stalk bearing numerous flowers, all ranged along it without any, or having very

plantain. From its figure, the situation of the flowers, and its vesture, it is called,

and its vesture, a iscauch,

1. Cybridrea; as in Vlantago media, and albicans.

2. Ocata, in Sanguesorba afficinalis.

3. Articulata, with joins; as in Salicornea herbacca, and Polygonium articulatum.

4. Conjugata, two spikes going from the summit of

the peduncle; as in Heliotropium europæum and par-

5. Ramosa, divided into branches; as in Chenonodrum bonus henricus, and Osmunda.

6. Imbricata; as in Salvia hispanica.

Secunda, the flowers leaning all to one side; as in Anchusa officinalis.

8. Interrupta, in separate groupes; as in Betonica officinalis, and Gomphrena interrupta.
9. Distucku, two series of spikes; as in Gladiolus

alopecurondes. 10. Terminalis; as in Lavendula.

 Axillares; as in Justitia spinosa.
 Foliosa, leaflets between the flowers; as in Agrimonia cupatoria.

13. Comosa, having a leafy bundle at the apex; as in

Larendula stuchas, and Bromelia ananas.

14. Cdiata, hairs between the flowers; as in Nardus oiliaris.

II. An ear of corn.
III. A bandage resembling an ear of corn. SPICA BREVIS. The Alopecuris pratensis.
SPICA CELTICA. See Valeriana celtica.
SPICA FÆMINA. Common lavender.
SPICA INDICA. See Nardus indica.

SPICA INGUINALIS. A bandage for ruptures in the groin.

SPICA INGUINALIS DUPLEX. Double bandage for ruptures.

SPICA MAS. Broad-leaved 'avender.

SPICA MAS. Broad-leaved avendar.

SPICA NARDI. See Nardus indica.

SPICA SIMPLEX. A common roller or bandage.

SPICA SIMPLEX. A common roller or bandage.

SPICULIA. A spikelet. A term applied exclusively to grasses that have many florets on one calyx, such florets ranged on a little stalk, constituting the spikelet, which is therefore a part of the flower itself, and not of the efflorescence; as in Briza minor, and Poa aquation. Leaveta means the same as smealy. Locusta means the same as spicula.

SPIGE'LIA. (So called by Linnaus in commemo-Italian (So cancer by Linnains in commemoration of an old botanist, Adrian Spigelius, who wrote Isagoge in vem herbariam, in 1606.) 1. The name of a genus of plants in the Linnaean system. Class, Pen-

tandria; Order, Monogynia. 2. The name in some pharmacopæias for the Spi-

gelia marilandica.

SP.GELIA ANTHELMIA. The systematic name of the

SP.GELIA ANTHELMIA. The systematic name of the splgella of some pharmacopæias. It is directed as an anthelminite; its virtues are very similar to those of the Indian pirk. See Spige liamarilandica.

SPIGELIA LONICERA. See Spigelia marilandica.

SPIGELIA LONICERA. See Spigelia marilandica.

SPIGELIA MARILANDICA. Spigelia lonicera. Perennial worm-grass, or Indian pink. Spigelia—caule tetragono, folisio omnibus, oppositie, of Linnœus. The whole of this plant, but most commonly the root, is employed as an anthelminite by the Indians, and inhabit ants of America. Dr. Hope has written in favour of this plant, in continued and remitting low worm fevers. Besides its property of destroying the worms in the prime vie, it acts as a purgative. primæ viæ, it acts as a purgative.

Spigelion lobe. See Liver. SPIGELIUS, ADRIAN, was born at Brussels, in 1578. He studied at Louvain, and afterward at Padua, where he took his degree. He became thoroughly where he took his ordree. He became infroughly skilled in every branch of his profession, particularly in anatomy and surgery; and after travelling some time to the different schools in Germany, he settled in Moravia, where he was soon appointed objection to the States of the Province. In 1616 he was invited to occupy the principal professorship in anatomy and sur-gery at Padua, where he acquitted himself with so much success, that he was created a knight of St. Mark, and p escuted with a collar of gold. He died in His writings evince him to have possessed very extensive medical knowledge. The first, which he published, contains some interesting information concerning the virtues of plants, respecting which he appears to have learned much from the Italian peasantry He wrote also concerning some diseases and other matters. But the most valuable of his works are those

composed on anatomical subjects, published after his | plaint, during which time it seemed to enjoy tolerable death, by his son-in-law, Crema.
SPIGNEL. See Ethusa meum.
SPIKELET. See Spicula.

SPIGNEL. See Extrusa meam.
SPIKELET. See Spicula.
SPIKENARD. See Nardus indica.
SPILA'NTHUS. (From σπλος, a spot, and ανθος, a flower; because of its dotted or speckled flowers.)
The name of a genus of plants. Class, Syngenesia; Order, Polygamia aqualis

SPILANTHUS ACMELLA. Achmella. Achamella. The systematic name of the balm-leaved spilanthus, which possesses a glutinous bitter taste, and a fragrant smell. The herb and seed are said to be diuretic and emmenagogue, and useful in dropsies, jaundice, fluor albus,

and calculous complaints, given in infusion.

SPI'NA. (Quast spiculina, diminutive of spica.) A thorn.

A. The back-bone: so called from the thorn-like processes of the vertebræ. See Vertebræ, and Spinc.

B. The shin-bone.

C. A thorn of a plant. A prickly armature of plants, to easily removed by the finger, and proceeding from the woody part of the plant. It is either, 1. Culine; as in Prunus spinosa. 2. Terminal, at the end of a branch; as in Rhamnus

- satharticus.
- Foliar, on the surface of the leaf; as in Carduus 4. Marginal, on the margin of the leaf; as in Ilex
- aquifolium. 5. Axillary, going from the axilla of the leaf; as in Gleditschia triacanthos.
- 6. Calycine, on the calyx; as in Carduus marianus.
  7. Pericarpial, on the pod; as in Datura stramonium.
- Stipular, on the stipule; as in Mimosa nilotica, and horrida
  - 9. Straight; as in Mimosa nigra.
    10. Recurve: as in Costus nobilis.

  - 11. Decussate; as in Genista lucitanica.
    12. Setoceous; as in Cactus opuntia.
    13. Subulate; as in Cactus tuna.
- 14. Inerm, covered with soft and not prickly spines, also called muricate; as in Convolvulus muricatus, and Alimosa muricata.
  - 15. Simple, when not divided; as Genista anglica.
  - 16. Germinal; as in Limonia trifoliata.

10. Germand; as in Limona trionada.
17. Termate; as in Zianthium spinosum.
18. Ramose; as in Gleditschia horrida.
SPINA ACUTA. See Berberis.
SPINA ACUTA. The hawthorn.
SPINA ÆGYPTIACA. The Egyptian thorn or sloe-tree. See Acacia vera.

See Acacia vera.

The white-thorn tree

SPINA ARABICA. The chardon, or Arabian thistle.
SPINA BIFIDA. Hydrops medullæ spinalis; Hydrocele spinalis; Hydrorachytis spinosa. A tumour upon cele sprinates; Hydrorachutes sprinosa. A tumour injudent the spine of new-born children, immediately about the lower vertebuse of the loins, and upper parts of the sacrum; at first, it is of a dark blue colour; but in proportion as it increases in size, approaches nearer and nearer to the colour of the skin, becoming perfectly diaphanous.

From the surface of this tumour a pellucid watery fluid sometimes exudes, and this circumstance has been noticed by different authors. It is always attended with a weakness, or more properly speaking, a paralysis of the lower extremities. The opening of it rashly has proved quickly fatal to the child. Tulpius, therefore, strongly dissuades us from attempting this operation. Acrel mentions a case where a nurse rashly opened a tumour, which, as he described it, was a blood bag on the back of the child at the time of its birth, in bigness equal to a hen's egg, in two hours after which, the child died. From the dissection it appeared, that the bladder lay in the middle of the os sacrum, and consisted of a coat, and some strong membrane, which proceeded from a long fissure of the bones. The extremity of the spinal marrow lay bare, and the spinal duct, in the os sacrum, was unconunonly wide, and distended by the pressure of the waters. ly wide, and distended by the pressure of the waters. Upon tracing it to the head, the brain was found nearly in its natural state, but the ventricles contained so much water, that the infundibulum was quite distended with it, and the passage between the third and fourth ventricle was greatly enlarged.

He likewise takes notice of another case, where a

health, though pale. Nothing seemed amiss in him, but such a degree of debility as rendered him incapable to stand on his legs.

The tumour, as in the former case, was in the middle of the os sacrum, of the bigness of a man's fist, with little discolouring; and upon pressing it became less. When opened it was found full of water, and the coats were the same as in the former, but the separation of the bones was very considerable. The spinal marrow, under the tumour, was as small as a pack-thread, and rigid; but there were no morbid appearances in the brain.

SPINA BURGHI MONSPELIENSIS. Evergreen privet. SPINA CERVINA. (So called from its thorns resembling those of the stag.) Sec Rhamnus catharticus.

SPINA HIRCI. 'The goat's thorn of France, yielding

gum-tragacanth.

SPINA INFECTORIA. See Rhamnus catharticus. SPINA PURGATRIX. The purging thorn.

SPINA SOLSTITIALIS.
Barnaby's thistle. The calcitrapa officinalis.

Syna ventosa. (The term of spina seems to have been applied by the Atabians to this disorder, because it occasions a prickling in the flesh like the puncture of thorns; and the epithet ventosa is added, because, upon touching the tumour, it seems to be filled with wind, though this is not the cause of the distention.) Spina ventositas; Teredo; Fungus articuli; Arthrocae: sideratio ossis; Cancer ossis; Gangrena ossis, and some French authors term it exostosis. When children are the subjects of this disease, Sevenius calls it Padarkacaes. A tumour arising from SPINA VENTOSA. (The term of spina seems to have rinus calls it Padarthrocace. A tumour arising from an internal caries of a bone. It most frequently occurs in the carpus and tarsus, and is known by a continual pain in the bone, and a red swelling of the skin, which has a spongy feel

nas a spongy teet.

SPINA'CHA. See Spinacia.

SPINA'CHA. (From Iomaua, Spain, whence it originally came; or from its spinous seed.) The name of a genus of plants. Class, Diacia; Order, Pentandria. Spinage

SPINACIA OLERACEA. The systematic name of the Spinachia. Spinach. Spinage. This plant is sometimes directed for medicinal purposes in the cure of phthisical complaints: made into a poultice, by boiling the leaves and adding some oil, it forms an excellent emollient. As an article of food it may be considered as similar to cabbage and other oleraceous plants. See

Brassica capitata.

Spinæ crates. The spine of the back.

Spinæ ventositas. A caries, or decay of a bone.

ee Spina ventosa.
SPINAL. Spinalis. Belonging to the spine of the back.

SPINAL LIS. See Spinal.

SPINAL LIS. See Spinal.

SPINALIS CERVICIS. This muscle, which is situated close to the vertebræ at the posterior part of the neck and upper part of the back, arises, by distinct tendons, from the transverse processes of the five or six upper-most vertebra of the back, and ascending obliquely under the complexus, is inserted, by small tendous, into the spinous processes of the sixth, fifth, fourth, third, and second vertebra of the neck. Its use is to extend the neck obliquely backwards.

the neck obliquety backwards.

SPINALIS COLLI. See Semi-spinalis colli.

SPINALIS DORSI. Transversalis dorsi, of Winslow; and inter-spineux, of Dunhas. This is the name given by Albinus to a tendinous and fleshy mass, which is cituated along the spinous processes of the back and the inner side of the longissimus dorsi.

It arises tendinous and fleshy from the spinous processes of the uppermost vertebræ of the loins, and the lowermost ones of the back, and is inserted into the spinous processes of the nine uppermost vertebræ of the

Its use is to extend the vertebræ, and to assist in raising the spine.

raising the spine.

SPINALES LUMBORUM. Muscles of the loins.

SPINE. (Spina; from spina, thorn; so called from the spine-like processes of the vertebrae.) I Spina dorst; Columna spinalis; Columna vertebralis. A bony column or pillar extending in the posterior part of the trunk from the great occipital foramen to the sa He likewise takes notice of another case, where a crum. It is composed of twenty-four bones called child lived about eight years labouring under this comvertebre. See Vertebre.

2. An armature of plants. See Spina.

SPINEL. A sub-species of octohedral corundum, of a red colour, and equal value with a diamend. It comes from Pegu and Ceylon.

SPINELLANE. A planth, blue-coloured crystalized nursent, found on the shortes of the lake of Latent.

SPINESCENS. Spinescent. Becoming thorny, apphed to the leaf-stalk, when it hardens into a thorn, and the leaf falls, as is the case in Rhamnus cathartius, and Robinia spinosa, and to the stipulæ of the Robinia pseudacacia, which also become thorns.

Diha psecuacacia, See Spina lajat.

Spi Nosa. See Spina lajat.

Spino sun synta ext. The Syrian broom.

SPINTHERE. A greenish gray-coloured mineral, believed to be a variety of prismatic titanium ore. SPIR.E'A.

(From Spira, a pillar so named from k.) Meadow-sweet. The name of a its spiral stalk.) genus of plants in the Lammean system. Class, Icosanden ; Order, Pentagyma.

SPIREA AFRICANA. African meadow-sweet

SPIREA APRICANA. African meanow-sweet.

SPIREA PLIMEAGULA. The systematic name of the officinal dropwort. Filipendula; Sazifraga rubra. Dropwort. The root of this plant, Spirea—folis permates, fairolis uniformalus secretis; couls berhave of flavibus corymbosis, of Linnaus, possesses adstringent, and, it is said, lithout iptic virtues. It is saidom used

and, it is said, inhomitiplic virtues. It is seldom used in the practice of the present day.

Spirear Clemaria. The systematic name of the meadow-sweet. Ulmaria; Regina prati; Barba cupre. Meadow-sweet. Queenoi the meadows. This is a beautiful and fragrant plant. The leaves are recommended as mild adstringents. The flowers have a strong smell, resembing that of May; they are supposed to possess antispasmodic and diaphoretic virtues, and as they are very reach used in medicane. Linnars and as they are very rarely used in medicine, Linnaus suspects that the neglect of them has arisen from the suspects that the neglect of them has arisen from the plant being supposed to be possessed of some noxious quadries, which it seemed to begay by its being left initiouched by cattle. It may be observed, however, that the cattle also refuse the Angelica and other herbs, whose innocence is apparent from daily experience. [SPIRTA TRIFOLATA: See Gilliani, A.] This mame was formerly given to all volatile substances collected by distillation. Three principal kinds were distinguished inflammable or aident spirits, acra spirits, and alkaline spirits. The word spirit is now almost exclusively confined to alkohol.

and alkaline spirits. The word exclusively confined to alkohol.

exclusively confined to alkolol.

Sprattes atthems surface. Spiritus other's netrosi: Spiritus nutri dulcis. Take of rectified spirits, two pints; nitric acid, by weight, three ounces; add the acid gradually to the spirit, and mix them, taking care that the heat do not exceed 120°; then with a gentle heat distil twenty-four fluid ounces. A febrifuge, diaphoretic, and diuretic compound mostly administered in asthema, nervous affections, dysuria, and calculous complaints. calculous complaints.

calculous complaints.

SPIRITES ATHERIS AROMATICUS. Take of cinnamon-bark, bruised, three drachms; cardamom seeds powdered, a drachm and a half; long pepper powdered, ginger-root sliced, each a drachm; spirit of sulphuric activer, a pint; macerate for fourteen days, in a closed glass vessel, and strain. An excellent stimulating and stemachic compound, which is administered in debitity of the stomach and nervous affections.

SPIRITEM EXTREMESTRALIPLIBITEM. Spiritus setticals:

Spiritus ethieris suleburici. Spiritus vitrioli dulcis; Spiritus atheris ritredici. Take of sulphuric ather, half a pint; rechfied spirit, a pint; mix home A diaphoretic, antispasmodic, and tonic preparation, mostly exhibited in nervous debility and weakness of

the primæ viæ

SPIRITUS ÆTHERIS SULPHURICI COMPOSITUS. Take Sentrus artheans stephenal composities. Take of spirit c sulphuric ather a plut; atherial oil, two fluid drachms; mix them. A stimulating anodyne, supposed to be similar to the celebrated lequor meneralis anodynus, of Hoffman. It is exhibited in fevers, nervous affections, hysteria, &c.; and in most cases of fever where medicines are rejected by the stomach, the is of infinite service.

this is of infinite service.

SPIRITUS AMMONIÆ Spirit of ammonia. Formerly SPIRITUS ARMONE. CONTROL STATE CONTROL OF THE CONTROL STATE CONTR and a half be distilled into a cooled receiver. A stimutlating antispasmodic, occasionally exhibited in caseso. asphyxia, asthenia, and in servous diseases, but mostly used as an external stimulant against rheumatism, sprains, and bruises.

SPERIOR ANNONIE AROMATICUS. Aromatic spirit of ammonia. Formerly known by the name of Spiritus of alimonia. Tollieris knownsty in landroi spolitus ammoniae compositus. Sportus volatiles aromaticus: Sportus sales volatiles aleasus. Take of cumamon-bark bruised, cloves bruised, each two drachms; lemon-DAIK DUBBER, CHONS DUBBER, CHERTWO GRACHES; JEMÖN-peel, four owness; subsarbonate of potassa, half a pound; munate of ammonia, five owness; rectified spirit, four pints; water, a gallon; mrx and distil six A stimulating antispasmodic and sudorific in pints. very general use, to smell at in faintings and lowness of spirits. It is exhibited internally in nervous affections, hysteria, and weakness of the stomach. dose is from half a drachin to a drachin.

and is from that a diachin to a dractin.

Springers amnoris, Fortings. Forting a minimum.

Take of spirit of ammonia, two pints; asafetida, two onness. Macerate for averve hours, then by a gentle fire distill a pint and a half into a cooled receiver. A stimulating antisensories ofton architecture action. stimulating antispasmodic, often exhibited to children against convulsions, and to gouty and asthmatic persons. The dose is from half to a whole fluid drachm.

SPIRITUS AMMONIA: SUCCINATUS. Succinated spirit of ammonia. Formerly known by the names of Eau de luce: Spiritus salis ammoniaci succinalus: Liquor cornu cerri succinalus. Take of mastich, three drachms; rectified spirit, nine fluid drachms; oil of ladracims; rectined spirit, into find uracimis; on oil ta-vender, fointeen minins; oil of amber, four minins, solution of ammonia, ten fluid ounces. Macerate the mastich in the spirit that it may dissolve, and pour oil the clear tincture; to this add the remaining articles, and shake them together. This preparation is much esteemed as a stimulant and nervine medicine, and is employed internally and externally against spasms, hysteria, syncope, vertigo, and the stings of insects. The dose is from ten minims to half a fluid drachm

SPIRITUS ANISI. Spirit of aniseed. Formerly called Spiritus anisi compositus; diqua seminum anisi compositus; diqua seminum anisi compositus. Take of aniseed, huised, hali a pound; proof spirit, a gallon; water sufficient to prevent empyreuma. Macerate for twenty four hours, and distil a gallon by a gentle fire. A stimulating carminative and stomachic calculated to relieve flatulency, borborygmus, colic, and spasmodic affections of the bowels. The dose is

from half to a whole fluid drachm.

Compound SPIRITUS ARMORACLE COMPOSITUS. spirit of horse-radish, formerly called spiritus raphum compositus; Aqua raphani composita. Take of horse-radish root, fresh and sliced, dried orange-peel, of each a pound: nutmers, bruised, half an onner: proof spirit, a gallon; water sufficient to prevent empyreuma. Macerate for twenty-four hours, and distil a gallon by a gentle fire. A very warm stimulating compound, given in gouty, rheumatic, and spasmodic affections of the stomach, and in scorbutic disorders. The dose is from half a fluid drachm to half a fluid ounce

SPIRITUS CAMPHORE. Spirit of camphor. Brittos Camphor. Spiritos camphor. For-ment's known by the names of Spiritus vini camphoratus; Spiritus vinosus camphoratus; Spiritus vini campho-ratus. Take of comphor, burronness, rectiled spirit, two pints. Mix, that the camphor may be dissolved. A stimulating medicine, used as an external application against childring the humatican palay provides and against chilblains, rheumatism, palsy, numbness, and

Speritus carul. Spirit of caraway. Formerly called Aqua seminum carul. Take of caraway seed, bruised, a pound and a half, proof spirit a gallon; water sufficient to prevent copyreums. Maccrate for 24 hours, and distil a gallon by a gentle fire. The dose is from a fluid drachm to half a fluid ounce.

SPIRITUS CINAMOSI. Spiril of cinnamos. For merly called Avia conamone spirituaea; Aqua cin-namoni fortis. Take of cinnamos-bark, bruised, a possed proof spiril a gailou; water sufficient to prevent empyreuma. Macerate for 24 hours, and distil a called its contle for Spiritus of spiritus and distil a gallon by a gentle fire. Spirit of cinnamon is mostly used in conjunction with other carminatives to give a pleasant flavour; it may be exhibited alone as a car-minative and stimulant. The dose is from a fluid draches to half a fluid ounce.

SPIRITES CORNU CERVI. See Ammonia subcar-

bonas.

Spiritus d'intern compositus. Compound spirit
of juniper. Formerly called dyna jungers compositu.

Talse or puripe barris, baused, a pound, caravay. seeds, bruised, fennel-seeds, bruised, of each an ounce

and a half; proof spirits, a gallon; water sufficient to prevent empyreuma. Macerate for 24 hours, and distil

a gallon by a gentle fire.

Spirities Lavernouse. Spirit of lavender. For-menty called spirotus lavendade simpler. Take of fresh lavender flowers, two pounds; rectified spirit, a gallon; water sufficient to prevent empyreuma. Ma-cerate for 24 hours, and distil a gallon by a gentle fire. Though mostly used as a perfume, this spirit may be given internally as a stimulating nervine and antispas modic. The dose is from a fluid drachm to half a fluid

SPIRITUS LAVENDULE COMPOSITUS. Compound spirit of lavender. Formerly called Spiritus lavendular compositus matthiar. Take of spirit of lavender, three pints; spirit of rosemary, a pint; cinnamon-bark, bruised, nutnegs, bruised, of each half an ounce; red brussed, numegs, ordised, or each han an ounce; not seat a saudiers woods, lied, an ounce. Macerate for fourteen days, and strain. An elegant and useful antispasmodic and stimulant in very general use against nervous diseases, lowness of spirits, and weakness of the Stomach, taken on a lump of sugar.

Spiritus lumbricorum. The spirit obtained by

the distillation of the earth-worm is similar to harts-

SPIRITUS MENTILE PIPERITUE. Spirit of pepper mint. Formerly called Spiritus mentha piperitidis, Apun mentha poperitidis spiritussa. Take of pepper mini, dried, a pound and a half; proof spirit, a gallon; water sufficient to prevent empyreuma. Macerate for 2d hours, and distil a gallon by a gentle fire. This possesses all the properties of the peppermint, with the stimulating virtues of the spirit. The dose from one

SPIRITUS MENTILE VIRIDIS. Spirit of spearmint. SPIRITES MENTILE CHRIDS. Spirit of spearming. Pormerly called Sportats menths astrong "Aqua mentho nulgaris spirituosa. Take of spearmint, dried, a pound and a half; proof spirit, a gallon; water sufficient to prevent empyreuma. Macerate for 24 hours, and district gallon. This is most commonly added to and disular gallon. This is most commonly added to carminative or antispasmodic draughts, and seldom exhibited alone. The dose from one fluid drachm to a fluid ounce.

A volatile alkali, the SPIRITUS MILLEPEDARUM.

virtues of which are smilar to hartshorn.

trines of which are summer to mansacra.

Speritus menderert. See Ammonic accetatis liquor.

Speritus myristicæ. Spirit of nutmeg. Formerly

that Jame macis moschatw. Take of nutmegs, SPIRITUS MYRISTICE. Spirit of nutneg. Formerly called Appae navis moschata. Take of nutnegs, bruised, two onnees; proof spirit, a gallen; water sufficient to prevent empyreuma. Maccrafe for twenty-four hours, and distil a gallon by a gentle fire. A stimulating and agreeable spirit possessing the virtues of the antimeg. The dose from one fluid drachin to a fluid ounce

SPIRITES NITRI DULCIS. See Spiritus otheris ni-

SPIRITUS NITRI DUILEY. The nitrous acid. See Acidum nitrosum, and Nitric acid.

SPIRITIS NITRI FLMANS. See Acidum nitrosum, and Nitres acid

SPIRILLS NITRI GLAUBERI. See Acidam nitrosum, and Nitrie word.

Security Sitter Simplex. The dilute nitrous acid. See . Jerdam nitricam dilutum.

SPIRITUS NITRI VULGARIS. This is now called acidum nitricum dilutum.

dum intrican different. Spirit of pimento. Formerly called specifics pimento. Take allspee bruised, two ounces; proof spirit, a gallon; water sufficient to prevent empyreuma. Macerate for 24 hours, and distil a gallon by a gentle life. A stimulating aromatic fineture mostly employed with adstringent and canniantive medicines. The dose is from half a fluid drachin to

Senrites Pelkoll. Spirit of pennyroyal. For-merly called. Juna pulegia sparituosa. Take of penny-royal, divida, a pound and a half; proof spirit, agallon; water sufficient to prevent empyreuma. Macerate for 24 hours, and distil a gallon by a gentle fire. This is in very general use as an emmenagogue among the lower orders. It possesses nervine and carminative The dose is from half a fluid drachm to half a fluid ounce.

SPIRITUS RECTOR. Boerhaave and other chemists give this name to a very attenuated principle, in which the smell of odorant bodies peculiarly reside. It is now called aroma,

SPIRITUS ROSMARINI. Spirit of rosemary. Take of rosemary tops, fresh, two pounds; proof spirit, a gallon; water sufficient to prevent empyreuma. Ma-cerate for 24 hours, and dishi a gallon by a genite fire A very fragrant spirit, mostly emilloyed for external purposes in conjunction with other resolvents.

SPIRITUS SALIS AMMONIACI AQUOSUS. See Ammoniæ subcarbonas.

SPIRITUS SALIS AMMONIACI DULCIS. See Spiritus

SPIRITUS SALIS AMMONIACI SIMPLEX. See Ammoniæ subcarbonas.

SPIRITUS SALIS GLAUBERI. See Muriatic acid.
SPIRITUS SALIS MARINI. See Muriatic acid.

SPIRITUS VINI RECTIFICATUS. See Alkohol. Rectified spirit of wine is in general use to dissolve resinous and other medicines. It is seldom exhibited internally, though it exists in the diluted state in all vinous and spirituous liquors.

Proof spirit, which is SPIRITUS VINI TENUIOR. about half the strength of rectified, is much employed for preparing tinctures of resinous juices,

roots, &cc.

SPIRITUS VITRIOLI. See Sulphuric acid.
SPIRITUS VITRIOLI DULCIS. See Spiritus atheris

sulphurici. SPIRITUS VOLATILIS FŒTIDUS. See Spiritus am-

SPISSAME'NTUM. (From spisso, to thicken.)

A substance put into oils and ointments to make them thick Spitting of blood. See Hamatemesis and Hamon-

tysis SPLANCHNIC. (Splanchnicus; from ondayxvov,

an entrail.) Belonging to the viscera.

SPLANCHNIC NERVE. The great intercostal nerve.

See Intercostal nerve.

See Intercostal nerve.

Sea Neinice. (From  $\sigma\pi\lambda a\gamma\chi\nu\nu\nu$ , an intestine.) Remodies for diseased towels.

S F LA N C Hi NO LOG Y. (Splanchnologia; from  $\sigma\pi\lambda a\chi\nu\nu\nu\nu$ , an entrail, and  $\lambda\sigma\nu$ , a discourse.) The doctrine of the viscera.

SPLEN N.  $\Sigma\pi\lambda\mu\nu$ . Lien. The spleen or milt is a spongy viscus of a fived colour, and so variable in form, situation, and magnitude, that it is hard to determine either. Nevertheless, in a healthy man it is always placed on the left side, in the left hypochondrum, between the eleventh and twelfth false rule. Its circumference is oblong and round resembling an uval flagreference is oblong and round, resembling an oval figure. It is larger, to speak generally, when the stomach is empty, and smaller when it is compressed, or evacuated by a full stomach.

It should particularly be remembered of this viscus, that it is convex towards the ribs, and concave internally; also, that it has an excavation, into which ves-

It is connected with the following parts: 1. With the omach by a ligament and short vessels. 2. With the stomach by a ligument and short vessels. 2. With the one naun, and the left kidney. 3. With the daphragm, by a portion of the peritonsum. 4. With the beginning of the pancreas, by vessels. 5. With a colon, by a ligament.

In man the spleen is covered with one simple, firm membrane, arising from the peritonæum, which adheres to the spleen, very firmly, by the intervention of

cellular structure.

The vessels of the spleen are, the splenic artery com-The vessels of the sphen are, the splent artery coming from the coefficia artery, which, considering the size of the sphen, is much larger than is requisite for the mere nutrition of it. This goes by serpentine movements, out of its course, over the pancreas, and behind the stomach, and after having given off branches to the adjacent parts, it is inserted into the concave surface of the spleen. It is afterward divided into smaller branches, which are again divided into other vet smaller, delivering their blood immediately to the veins, but emitting it nowhere else. The veins, at length, come together into one, called the splenic vein, and having received the larger coronary vein of the stomach, besides others, it constitutes the left principal

branch of the vena portæ.

The nerves of the spleen are small; they surround the arteries with their branches; they come from a particular plexus, which is formed of the posterior branches

of the eighth pair, and the great intercostal nerve.

Lymphatic vessels are almost only seen creeping along the surface of the human spleen.

The use of the spleen has not hitherto been determined; yet if the situation and fabric be regarded, one would imagine its use to consist chiefly in affording some assistance to the stomach during the progress of

SPLEEN-WORT. See Asplenium ceterach, and

Asplenium trichomanes. SPLENA'LGIA. (From σπλην, the spleen, and αλγος, pain.) A pain in the spleen or its region. SPLENETIC. (Spleneticus; from σπλην, the

SPLENETIC. (Spleneticus; from σπλην, the spleen.) Belonging to the spleen.

SPLENITIS. (From σπλην, the spleen.) Inflammation of the spleen. A genus of disease in the Class Pyreziae, and Order Phlegmasiae, of Cullen; characterized by pyrexia, tension, heat, tumour, and pain in the left hypochondrium, increased by pressure. This disease, according to Juncker, comes on with a remarkable shivering, succeeded by a most intense heat, and very great thier. and very great thirst; a pain and tumour are perceived in the left hypochondrium, and the paroxysms for the most part assume a quartan form; when the patients expose themselves for a little to the free air, their extremittes immediately grow very cold. If a hæmorrhagy happen, the bood flows out of the left nostril. The other symptoms are the same with those of the hepa titis. Like the liver, the spleen is also subject to a chronic inflammation, which often happens after agues, and is called the ague cake, though that name is also frequently given to a scirrhous tumour of the liver suc-ceeding intermittents. The causes of this disease are in general the same with those of other inflammatory disorders: but those which determine the inflammation to that particular part more than another, are very much unknown. It attacks persons of a very plethoric and sanguine habit of body rather than others

During the acute stage of splenitis, we must follow the antiphlogistic plan, by general and topical bleedings, by purging frequently, and by the application of blisters near the part affected. If it should terminate in suppuration, we must endeavour to discharge the pus externally, by fomentations or poulfices. When the organ is in an enlarged scirrhous state, mercury may be successful in preventing its faither progress, or even producing a diminution of the part: but proper cau-tion is required in the use of it, lest the remedy do

more harm than the disease.

Sple'nium. (From οπλην, the spleen: so called from its efficacy in disorders of the spleen.)

1. Spleen-Wort

A compressed shape like the spleen

SPLE'NIUS. (From σπλην, the spleen: so named from its resemblance in shape to the spleen, or, according to some, it derives its name from splenium, a ferula, or splint, which surgeons apply to the sides of a frac tured bone.) Splenius capitus, and splenius colli, of Albinus; and cervico-dorsi-mastoidien et dorso-trache-tien, of Dumas. The splenius is a flat, broad, and oblong muscle, in part covered by the upper part of the trapezius, and obliquely situated between the back of the ear, and the lower and posterior part of the neck.

It arises tendinous from the four or five superior spinous processes of the dorsal vertebræ; tendinous and fleshy from the last of the neck, and tendinous from the ligamentum colli, or rather the tendons of the two splenii unite here inseparably; but about the but about the each other, so that part of the complexus may be

seen

It is inserted, by two distinct tendons, into the transverse processes of the two first vertebræ of the neck, sending off some few fibres to the complexus and le-vator scapulæ; tendinous and fleshy into the upper and posterior part of the mastoid process, and into a ridge on the occipital bone, where it joins with the root of

that process.

at process.

This muscle may easily he separated into two parts. Eustachius and Fallopius were aware of this; Win-slow has distinguished them into the superior and infe-rior portions; and Albinus has described them as two distinct muscles, calling that part which is inserted into distinct muscles, cannig that part which is an action the mastoid process and os occipitis, splenius captive, and that which is inserted into the vertebre of the neck, splenius colli. We have here followed Douglas, and the generality of writers, in describing these two portions as one muscle, especially as they are intimately united near their origin.

When this muscle acts singly, it draws the head and

upper vertebræ of the neck obliquely backwards; when both act, they pull the head directly backwards.

SPLENIUS CAPITIS. See Splenius.
SPLENIUS COLLI. See Splenius.
SPLENOCE'LE. (From σπλην, the spleen, and κηλη,

a tumour.) A hernia of the spleen.

SPLIN'F. A long piece of wood, tin, or strong pasteboard employed for preventing the ends of broker bones from moving, so as to interrupt the process by which fractures unite.

SPO'DIUM. Σποόιον. The spedium of Dioscorides and of Galen are now not known in the shope. It is said to have been produced by burning cadmia alone in the furnace; for having thrown it in small pieces into the fire, near the nozzle of the bellows, they blow the most fine and subtle parts against the roof of the furnace: and what was reflected from thence was called spodium. It differed from the pompholyx in not being so pure, and in being more heavy. Pliny distinguishes several kinds of it, as that of copper, silver, gold, and lead.

SPODIUM ARABUM. Burnt ivory, or ivory black. See Abaisir.

SPODIUM GRECORUM. The white dung of dogs SPODUMENE. Prismatic triphane spar of Mohs.

A mineral of a greenish white colour, first found in
the island of Uton, in Sudermannland, and lately in
the vicinity of Dublin. It contains the new alkali called lethia.

SPOLIA'RIUM. A private room at the baths.
SPONDY'LIUM. (From σπονδυλφε, a vertebra: so named from the shape of its root, or probably because it was used against the bite of a serpent called onov-

Subject. See Heracleum spondylium.

SPO'NDYLUS. Σπονόνλος. Some have thought fit to call the spine or backbone thus, from the shape and fitness of the vertebræ, to move every way upon one another.

SPONGE. See Spongia.
SPONGE-TENT. See Spongia præparata.
SPONGIA. Σπογγος; Σπογγια. Spongia officinalie. Sea

Spongia officinalis. The systematic name of the SPONGIA OFFICINALIS. The systematic name of the sponge. A sea-production: the habitations of insects. A soft, light, very porous and compressible substance, readily imbibing water, and distending thereby. It is found adhering to rocks, particularly in the Mediterra nean sea, about the islands of the Archipelago. It was formerly supposed to be a vegetable production, but is now classed among the zoophytes; and analyzed, it yields the same principles with animal substances in general. Burnt sponge is said to cure effectually the bronchocele, and to be of infinite utility in scrofulous complaints. Sponge tents are employed by surgeons to

dilate fistulous ulcers, &c.

Spongt Præparata. Prepared sponge. Sponge tent. This is formed by dipping pieces of sponge in hot melted emplastrum cera compositum, and pressing them between two iron plates. As soon as cold, the substance thus formed may be cut into pieces of any shape. It was formerly used for dilating small openings, for which it was well adapted, as when the wax neited, the elasticity of the sponge made it expand and distend the opening, in which it had been put. Sir Ashley Cooper informs us that the best modern surgeons seldom employ it.

Spongia USTA. Burnt sponge. Cut the sponge into pieces, and beat it, that any extraneous matters may be separated; then burn it in a close iron vessel until it becomes black and friable; lastly, rub it to a very fine powder. This preparation is exhibited with bark in the cure of scrofulous complaints, and forms the basis of a lozenge, which has been known to cure the bronchocele in many instances. The dose is from a

scruple to a drachm.

Sroysiosa ossa. Ossa turbinata inferiora; Ossa convoluta. These bones are situated in the under part of the side of the nose; they are of a triangular form and spongy appearance, resembling the os spongiosum and spongy appearance, resembing the or sponghound superius; externally they are concave; the convex is placed towards the septum nasi, and the concavity outwards. The under edge of each bone is placed horizontally near the outer part of the nose, and ending in a sharp point behind. At the upper part of the bone are two processes, the anterior of which ascends and forms part of the lachryenal groove, and the posterior descends and forms a in 1660. He graduated at Jena, at the age of twenty hook to make part of the maxiliary sinus.

The connexion of this bone is to the os maxillare, os palati, and os unguis, by a distinct suture in the young subject; but in the adult, by a concretion of substance

The ossa spongiosa afford a large surface for extending the organ of smell by allowing the membrane of the nose to be expanded, on which the olfactory nerves are dispersed.

In the feetus, these bones are almost complete.

Spongto'sum os. 1. The ethanoid bone.

Seo Spangeosa ossa. Secunion voine.

2. Seo Spangeosa ossa.

SPONGO SUS. Spongy.

SPONGO/DES. (Σπογγοειδης; from σπογγος, a sponge, and εδος, forma, shape; so called because it is hollow and porous, like a sponge or sieve.)

SPORADIC. (Sporadicus; from σπειρω, to sow.) An epithet for such intections and other diseases as seize a few persons at any time or season.

Serice a new persons at any time of section.

Spatted lang-eart. See Palmonaria.

SPRAIN. See Subtaratio.

SPRAIT. The Copper sprattus, of Linneus. A

Small herring-like fish which comes to us between No-Number and Marc's, and are eaten fried and pickled. They are strong and hard of digestion. SPRONGIDIUM. See Columnula.

SPRUCE. 1. A particular species of fir. See Pinus

A fermented liquor called spruce beer prepared from the spruce fir. From the quantity of carbonic acid it contains, it is found a useful antiscorbutic.

acid it contains, it is found a useful antiscorbitic.

Sparge flax. See Daphne guidium.

Sparge durel. See Daphne mexican.

[Sparge dure.] See Daphne mexican.

[Sparge, darge flavoreing. See Faphorbia corollata.

Spargedrye. See Pulvis parturieus. A.]

SPLTIMEN. See Spatum.

SPUTUM. (From span, to spit.) Spatamen. Saliva. Any kind of espectoration.

Squama ata. (From squama, a scale; so called from its scaly roots.) The great tooth-wort, or Plumbaro carama.

SQUAMATUS. Scaty: applied to the nectary of

the Ranacculus genus, &c. See Nectarium. SAUAMOSE. (Squamosus; from squama, a scale, because the bones he over each other like scales.)

SQUAMOSE SUTURE. The suture which unites the squamose portion of the temporal bone with the pa-

riotal.

SQU'AMOSUS. Squamose. Scaled: applied to roots which are covered with fleshy scales; as in Lathraa squamaria SQUARROSI

SQUARROSUS. (From squarra; rough.) Squartose. Rough, scabby, scaly. Applied to plants, &c.;

SQUILL See Seilla. SQUILLA. See Seilla.

Squalls, energar of See Acetum soille.
Squals, energar of See Acetum soille.
Squase strees. (From specianthia, the quinsy: so named from its uses in the quinsy.) See Andropogon s chananthus

ST CHYS. (Στιχυς, a spike: so named from its spicited stalk and seed.) 1. The name of a genus of plants in the Linnaran system. Class, Didyaamia; orda, Cymnospermia.

2. Some species of wild sage, and hoarhound, nettle, &c. were formerly so called.

STABLES FORTIDA. Yellow archangel. Hedge-net-He, or Bailate nigra.
Stachys Palustris. Clown's woundwort or all-

STACTE. (STAKTH from 5a2w, to distil.) term signifies that kind of myrth which disalls or falls in drops from the trees. It is also used by some writers for a more liquid kind of amour than what is commonly bet with in the shaps; whence in Scribonius Largus Paulus Ægmeta, and some others, we meet with a collyrium, and several other forms, wherein this was the the chief ingredient, distinguished by the name of

Six'ericon. Instillation: also an eye-water. STAGMA. (From 5a/w, to distil.) 1. Any distilled

d par. 2. The vitriolic acid.

STAHL, GEORGE ERNEST, was born at Anspach, from its want of taste, it is a good laxative for children.

four, and immediately commenced a course of private lectures there; and about three years after he was made physician to the duke of Saxe-Weimar. On the establishment of the university of Halle, in 1694, he was appointed to a medical professorship, at the solicitation of Hoffman; and he became the leader of a sect of physicians, in opposition to the mechanical theorists, in which he was followed by many eminent persons as well in Germany as in other countries, notwith-standing the very fanciful nature of the hypothesis, on which his system was founded. It had been always obstanding the very relative which his system was founded. It had been always observed, that there is a certain power in the animal body of resisting injuries, and correcting some of its disorders; and Van Helmont had ascribed some degree of intelligence to this power: but it was reserved for Stall to refer it entirely to the rational sout, which, he affirmed, not only originally formed the body, but is the sole cause of all its notions, in the constant excitement of which life consists. Whence diseases were generally regarded as salutary efforts of the premating sout, to avert the destruction of the body. This siding soul, to avert the destruction of the body. This hypothesis, besides its visionary character, was justly deprecated, as leading to an inert practice, and the neglect of the collateral branches of medical science, even of anatomical researches, which Stabl maintained, had both he and his followers, trusting principally to the operations of nature, zealously opposed the use of some of the most efficacious remedies, as opium, ciachona, and mercury; and were extremely reserved in the employment of bleeding, vomiting, &c., although their system led them to refer most diseases to plethora. This hypothesis was maintained by Stahl with much This hypothesis was maintained by Statil with much ingenuity in several publications, particularly in his "Theoria Medica vera," printed in 1708. The nerits of Stahl, as a chemical philosopher, are of a much higher character; and the school, which he founded in this science, has only been superseded of late by farther discoveries. He was the inventor of the celebrated theory of phlogiston, which appeared to account hrated theory of phlogiston, which appeared to account for the phenomenon of combustion, and was received every where with high applause. His chief chemical work was entitled "Fundamenta Chemic dogmatico et Experimentalis," first prioted in 1729; but this had been preceded more than thirty years, by others, in which his doctring was fully displayed. Stahi was elected a member of the Academy Natura Curiosomm: and he was called, in 1716, to visit the king of Prussia at Berlin, whither he weet also on several subsequent occasions, and on one of these he was attacked with a disease, which proved fatal, in the 74th year of his age.

STALACTITES. The calcareous substances found suspended from vaults, being formed by the oozing of water charged with calcareous particles gradually eva-

water charged with calcareous particles gradually eva-porating, and leaving these particles behind. STALAGMITIS. (Prom-galaynos, a dropping or distillation, because the gun which it yields escapes in that manner.) The name of a genus of plants. Class, Polygamia; Order, Monacia. STALAGMITIS CAMPORTORDES. This is now ascer-tained to be the tree which affords gamboge. This

tained to be the free which affords gamooge. This drug, from its supposed virtues, is also called gummi ad podagram; gummi gutte; and, by corruption, gotta; gutta gumba; gamon; germandra; catagemu; gambalea, &c., and, from its gold colour, chrysopus; and, from its purgative quality, succus laxativus; succus Indicus pargans; and scammonium orientale. Gamboge is a concrete vegetable juice, which was supposed. to be the produce of two trees, both called by the Indians. to be the produce of two trees, both called by the Indians, Caracapulli, and by Linnaus, Gambogia gutta; but Kenig ascertained its true source. It is partly of a gummy, and partly of a resinous nature. It is brought to us chiefly from Gambaja, in the East Indies, either in form of orbicular masses, or of cylindrical rolls of various sizes; and is of a dense, compact, and firm texture and of a beautiful yellow colour. In medicine it is chiefly used as a drastic purge; it operates are that both unwards and downwards. Some powerfully both upwards and downwards. powerfully both upwards and downwards. Some condemn it as acting with too great violence, while others are of a contrary opinion. The dose is from two to four grains, gas a cathautic: from four to eight grains it proves caucite and pargative. The roughness of its operation is sand to be diminished, by giving it in a liquid form sufficiently diluted. Rubbed with almonds,

It has been given in dropsy, with cream of tartar, to | correct its operation. It has also been recommended by some, to the extent of fifteen grams, joined with an equal quantity of vegetable alkan, to destroy the tape worm. This dose is ordered in the morning, and if the worm is not expelled in two or three hours, it is re-peated even to the third time, with safety and efficacy. This dose is ordered in the morning, and if the It is asserted, that it has been given to this extent even in delicate habits. This is said to be the remedy alluded to by Dr. Van Swieten, which was employed by Dr. Herenchwand, and with him proved so successful in the removal of the tænia lata. It is an ingredient, and probably the active one, in most of the nostrums for expelling tæniæ.

Dr. Cullen says, that, on account of the quick passage of gamboge through the intestines, he was induced to give it in small, and frequently repeated doses, as three or four grains, rubbed with a little sugar, every three hours; and thus found it operate without griping or sickness, and, in three or four exhibitions, evacuate

agreat quantity of water, both by stool and urine. STALA GMUS. (From ςαλαζω, to distil.) Distil-

STA LTICA. (From 5ελλω, to centract.) Healing

applications

STAMEN. The male genital organ of plants, found generally within the corolla, near the pistil. Stamens were formerly called chives. They are va-Hous in number in different flowers, from one to some This organ is essential to a plant, no one hundreds. having yet been discovered, after the most careful research, that is destitute of it, either in the same flower with the pistils, or a separate one of the same species.

A stamen consists of three parts.

I. The flumentum, or filament, the part which sup-

ports the anther.

2. The anthera, placed on the filament, and the most essential part of all. 3. The pollen, or powder adhering to the author.
Stand Petals. The finely divided is exhibited internally as a vermifuge. It acts mechanically, and the

ignality as a veriating. It acts incchanneally, and the fine filings are more effectual than the powder.

STANNIC ACID. A name which has been given to the peroxide of tin, because it is soluble in alkalies.

STANNUM. See Tim.

STAPE DIS (Stapedius, SC. musculus; from

stapes, one of the bones of the ear.) Musculus stapes, of Cowper; and premudal-stapedien, of Dumas. A muscle of the internal car, which draws the stapes obliquely upwards towards the cavern, by which the proterior part of its base is moved inwards, and the anterior part of the base is moved inwards, and the anterior part outwards.

STATES. (In que pes stat, a stirrup.) A bone of the internal ear, so called from its resemblance to a

stirrun

STAPHILI'NUS. See Azygos unula.
STAPHILINUS EXTERNUS. See Circumficius.
STA'PHIS. Exagus, is strictly a grape, or a bunch of grapes; whence, from their likeness thereunto, it is applied to many other things, especially the glands of

street to many that the body, whether natural or diseased.

STAPHISA GRIA. Σταφις αγοια, wild vine; from the resemblance of its leaves to those of the vine. See Delphinium

αφυλη. A grape or raisin: so ance.) The uvula.
(Staphylinus; from ςαφυλη, STAPHYLE. (Σταφυλη.

called from its resemblance.) STAPHYLI'NUS. (Stap See Azygos uvulæ. the uvula.)

STAPHYLINUS EXTERNUS. See Circumflexus. STAPHYLINUS GRECORUM. Staphylinus sylvestris.

STAPHYLOMA. (From 5apvhn, a grape: so named from its being thought to resemble a grape.) Staphylosis. A disease of the eyeball in which the comea loses its natural transparency, rises above the level of the eye, and successively even projects beyond the eyelids, in the form of an elongated, whitish, or pearl-coloured tumour, which is sometimes smooth, semetimes uneven, and is attended with a total loss of sight. The proximate cause is an effusion of thick numour between the lamellæ of the cornea, so that the internal and external superfices of the cornea, very much protuberates. The remote causes are, an ha bitual ophthalmia, great contusion, and frequently a deposition of the variolous humour in the small-pox. The species are:

1st. Staphyloma totale, which occupies the whole transparent cornea; this is the most frequent species. The symptoms are, the opaque cornea promberates, and if in the form of a cone, increasing in magnitude it pushes out and inverts the lower eyelid; and sometimes the morbid cornea is so clongated, as to be on the cheek, causing friction and excoriation. The bulb of the eye being exposed to the air, sordes generate, the interior palpebra is irritated by the cilia, and very painful red and small papille are observable.

2d. Staphyloma racemosum, is a staphyloma formed by carnous tubercles, about the size of a small pin's

3d. Staphyloma partiale, which occupies some part of the cornea: it exhibits an opaque tumour prominent from the cornea, similar to a small bluish grape.

4th. Staphyloma seleration is a bluish tumour attached to some part of the seleration, but arises from the tunica albuginea.

5th. Staphyloma pellucidum, in which the cornea is not thickened or incrassated, but very much extended

and pellucid. Staphyloma complicatum, which is complicated with an ulcer, ectropium, caruncles, or any other disorder of the eye.

7th. Staphyloma iridis. For this species, see Ptosis

iridis.

Star thistle. See Carlina acaulis.

STARCH. Amylam. A white, insipid, combustible substance, insoluble in cold water, but forming a jelly with boiling water. It exists chiefly in the white and brittle parts of vegetables, particularly in tuberose. roots, and the seeds of the grammeous plants. It may roots, and the seeds of the grammoots plants. It may be extracted by pounding these parts, and agitating them in cold water; when the parenchyma, or fibrous parts, will first subside; and these being removed, a fine, white powder, diffused through the water, will gradually subside, which is the starch. Or the pounded or grated substance, as the roots of arum, potatoes, acorns, or horse chesnuts, for instance, may be put into a hair sieve, and the starch washed through with cold water, leaving the grosser matters behind. Parinaccous seeds may be ground and treated in a similar namer. Oily seeds require to have the oil expressed from them before the farina is extracted.

Starch is one of the constituent parts in all mealy farinaceous seeds, fruits, roots, and other parts of plants. Our common starch is made from wheat. It is not necessary that the grain be first bruised in mills. The entire corn, well cleansed, is soaked in cold water until the husks separate; and the grains, having become quite soft, give out, by pressure, a milky fluid. The grains are then taken out of the water by means of a sieve, put into a coarse linen sack, and transferred into the treading tub; where they are trodden, after cold water has been poured upon them.

By this operation the starchy part is washed out, and, mingling with the water, makes it milky. The water is now drawn off, running through a sieve into the settling-tub. Fresh water is again effused upon the grains, and the same operation is continued till the water in the transition to be presented. water in the treading-tub is no longer rendered milky. The starch here precipitates by repose from the water that held it suspended; during which, especially in a warm season, the inucilaginous saccharine matter of the flour, that was dissolved by the water, goes into the acetous fermentation. From this cause the starch grows still purer and whiter. The water is next let off from the starch, which is several times more washed with clear fresh water; the remaining part of which is suffered to drip through linen cloths, supported by hurdles, upon which the wet starch is placed. When the starch has fully subsided, it is wrapped in, wrung between these cloths, or pressed, to extort still more of the remaining liquid.

It is afterward cut into pieces, which are laid in airy places, on slightly burnt bricks, to be completely dried, partly by the free currency of air, and partly bricks unbibling their moisture. Lastly, the outer crust is scraped off, and they are broken into smaller

If starch be subjected to distillation, it gives out water impregnated with empyreumatic acetous acid, a little red or brown oil, a great deal of carbonic acid, and emburetted hydrogen gas. Its coal is bulky, easily burned, and leaves a very small quantity of potassa and phosphate of lime. If when diffused in water it be exposed to a heat of 60° F., or upward, it will ferment, and turn sour; but much more so it it be not freed from the gluten, extract, and colouring matter. Thus, in starch-making, the farton ferments and becomes sour, but the starch that does not undergo fermentation is rendered the more pure by this process. Some water, already soured, is mixed with the flour ami water, which regulates the fermentation, and prevents the mixture from becoming plurid; and in this vents the inixture from becoming purid; and in this state it is left about ten days in summer, and fifteen in Winter, before the seum is removed, and the water poured off. The starch is then washed out from the bran, and dried, first in the open air, and finally in an

With boiling water, starch forms a nearly transpa-rent nucliage, emitting a peculiar smell, neither disa-greeable nor very powerful. This mucliage may be dried, and will then be senttransparent, and much resembling gum, all the products of which it affords. When dissolved, it is much more easily digested and mutritious than before it has undergone this open

Both acids and alkalies, combined with water, dissolve it. It separates the oxides of several metals from their solutions, and takes oxygen from many of them. It is found naturally combined with all the immediate principles of vegetables, and may easily be united with

most of them by art.
When starch is triturated with iodine, it forms combinations of various colours. When the proportion of iodine is small, these compounds are violet; when somewhat greater, blue; and, when still greater, black.

We can always obtain the finest blue colour, by treating starch with an excess of iodine, dissolving the compound in liquid potassa, and precipitating by a vegetable acid. The colour is manifested even at the instant of pouring water of iodine into a liquid which contains starch diffused through it. Hence iodine becomes an excellent test for detecting starch; and starch for detecting iodine. Besides these combinations, it appears that there is another of a white colour, in which the iodine exists in very small quantity. All of them possess peculiar properties.

Starch is not affected in the cold, by water, alkohol, rether. But it dissolves readily, when triturated or ether. with potassa water.

Starch is convertible into sugar by dilute sulphuric acid. To produce this change we must take 2000 parts of starch, diffuse them in 8000 parts of water, containing 40 parts of strong oil of vitriol; and boil the mixture for 36 hours in a basin of silver or real, come care to shir the materials with a wooden rod, during the first hour of ebuilition. At the end of this time, the mass having become liquid, does not require to be stirred, except at intervals. In proportion as the mater evaporates, it ought to be replaced. When the mixture for 36 hours in a basin of silver or lead, taking liquid has been sufficiently boiled, we must add to it chalk and mimal charcoal, then clarify with white of egg, filter the mixture through a flock of wool, and then concentrate the liquid till it has acquired a syrupy After this, the basin must be removed Consistence. from the fire, in order that, by cooling, the greater part from the fire, in order that, by Cooling, the greater part of the sulphrate of line may fall down. The pure symp is now to be decanted off, and evaporated to the proper dryness. The greater the quantity of acid em-ployed, the less confliction is required to convert the statch into the saccharine matter.

The discovery of the preceding process is due to

Kirchoff, of St. Petersburgh.

The presence of sulphuric acid is not indispensable The presence of supporte and is not morspensione for obtaining sugar from starch. It may also be obtained by legying the starch to itself, either with or without confact of air, or by mixing it with dried gluten. At the same time, indeed, several other products are formed. M. Thood, de Saussure's interesting observations on this subject are published in the Annales de Chemie et de Physique, xi. 379. The starch, Annates de Chemie et de Physique, Xi. 379. The starch, brought to the state of a pulpy mass, must be left to spontaneous decomposition. The products are, 1st, a sugar, tike the sugar of grapes; 2d, Gum, like that from roasted starch; 3d, Amidine, a body whose properties are intermediate between those of starch and gum; and 4th, an insoluble substance, like ligneous matter. In these continuates the cases on which he are the production of the continuation of the continuation of the continuation. matter. In these experiments, the mass on which he operated was made by pouring 12 parts of boiling water on 1 of statch. When it was fermented by dried gluten, he obtained-

| Without contact              | With contact |
|------------------------------|--------------|
| of air.                      | of air.      |
| Sugar 47.4                   | 49.7         |
| Gum                          | 9.7          |
| Amadine 8.9                  | 52           |
| Amalaceous lignin 10.3       | 9.2          |
| Lignin with charcoal A trace | 0.3          |
| Undecomposed starch 4.0      | 3.8          |
|                              |              |

Potato starch differs perceptibly from that of wheat; it is more friable; is composed of ovoid grains, about twice the size of the other.

As starch forms the greatest part of flour, it cannot be doubted but that it is the principal alimentary sub-stance contained in our bread. In a medical point of view, it is to be considered as a demulcent; and, ac-cordingly, it forms the principal ingredient of an offi-cinal lozenge in catarrhs, and a mucilage prepared from it often produces excellent effects, both taken by the mouth and in the form of clyster, in dysentories and diarrhea, from irritation of the intestines. Milk and starch, with the addition of suct finely shred, and incorporated by boiling, was the soup employed by Sir John Pringle, in dysenteries, where the mucous mem-

surgeons apply it as an absorbent in crysipelas. STATICE. (From ζατίζω, to stop: so name STATICE. (From cariso, to stop: so mained from its supposed property of restraining hæmorrhages). The name of a genus of plants in the Linuaga system. Class. Pentandria; Order, Pentagynia. The herb sea-thrift.

brane of the intestines had been abraded. Externally,

NET SEASON THE LIMONITM. The systematic name of the sea-thrift. Sea-lavender, or red behen, Behen return: Limonium: Limonium majus; Rehen. The roots possess astringent and strengthening qualities, but not in a very remarkable degree.

STATIONA'RIA FEBRIS. A stationary fever. So Sydenham called those fevers which happen when there are certain general constitutions of the years, which owe their origin neither to heat, cold, dryness, nor moisture; but rather depend on a certain secret and inexplicable alteration in the bowels of the earth, whence the air becomes impregnated with such kinds of effluvia as subject the body to particular distempers, so long as that kind of constitution prevads, which, after a certain course of years, declines and gives way to another.

STAUROLITE. Grenatite, or prismatic garnet. STAUROTIDE. Grenatite. Prismatic garnet. crystallized, dark, reddish-brown garnet, found in Scotland, and Ireland. STAVESACRE.

See Delphinium staphisagria. STEARINE. See Put.
STEATITE. Soapstone. A subspecies of rhom-

boidal mica

STEATOCE'LE. (From 5εαρ, suet, and κηλη, a tumour.) A collection of a suety substance in the scrotum

STEATOMA. (From 5eap, suet.) An encysted tumour, the contents of which are of a suety con-

Chalybs. The best, hardest, finest, and closest grained iron, combined with carbon by a parti-Cular process.

STEINHEILITE. The blue quartz of Finland.
STELOCHITES. See Osteocolla.

STELOCHITES. See Osteocolla.

STE'LLA (From schlow to auise.) A star. A bandage with many crossings, like a star.

STELLA'RIA. (From stella, a star: so named from the star-like appearance of its flowers.) The name of a genus of plants. Class, Decanaria; Order, Trigoria. Stitchwort.

STELLATUS. (From stella, a star.) Stellaristicative. Applied to the nectary of the Stopplia, &c.

STELLATIE. The name of an order of plants in

Linnæus's Fragments of a Natural Method, consisting of such as have stellate leaves, and quadrified corolla. mostly tetrandrous; as Galium, Asperula, Rubea tinc torum, &c. STE'MA.

STE'MA. (From 57µ1, to stand.) The penis.
Stemless milkeetch. See Astrgalus excapus.
STENO, Nicholas, was born at Copenhagen, in

Having studied with great diligence, under the 1638. Having stanted with great anigence, under the celebrated Bartholin, he passed several years in vising the best schools in different parts of Europe. His reputation was then increased, so that about the age of 29 he was appointed Physician to Ferdinand II. Grand Onke of Tuscany, with a liberal salay. He was

Ddd2

afterward Lonoured with the exteem of Cosmo III. who I selected him as preceptor to his son. He had been led. by the eleptionic of Bossie, to change from the Pro-tessant to the Roman Cachode personasson, which proved an obstatle to this accoping the neutation of Protective III. to return to Copenhagen, but the sucresearch III. I beauth to cope anged hat the succeeding King of Demnark, not imposing any religious restraint, he was induced about the year 1072 to go to his native city, where he was appointed professor of auctions. But finding his sincarron less agreent... that he had expected, he resumed the education of the Joung prince at Florence. Some time after this he embraced the ecclesi istical profession, was speedily appointed a bishop, and then vieur a, ostelical to all the sates of the north, in which capacity he became a zealous preacher in various parts of Germany, and died in the course of his labours in 1886. The works examt by him relate principally to medical ship ets. He was a diligent cultivator of anatomy, and made some di coveries relative to the minute sinuctu, c of Lie eye, and other parts; which are detailed in papers communicated to the academy of Copenhagen, and in some small works published by himself.

Some such works published by masself.

STESSTHORA CES. From grow, narrow, and hope,
the coast. Those who have narrow classes are so carled.

STERLIFY. Steaders Benefactors. It women
the some as reports to a guissiant of the some
these more party some of the sential party. But can be
tree to see trequent causes is the suppression. The roan There are other causes, however, ansing from various diseases incident to those parts; by which Use ub as may as unfit so receive or retain the male seed,—on the tube Failopane being too short, or lasting set their creedies power; in either of which cross or conception can take place;—from universal echiny of relayation; or a local debility of the gential system; by which in any the parts naving lest their too, or contractle power, the serious is ferown off immediately post column;—from imperforation of the vagica, of the uteras, or taba, or from descased

va. &c. STERNO. Names compounded of this word be long to rescles which are attached to the sternum; as, STERNO . LADO H. OLDE. S. See Sterna Lyarbens.

STERNO CLEIDO MASTORDEUS. and stem onest of Albams. Alas where, of Douglas and Cow, . . and sterno-cleare messariles, of Dumas. A muscle, on the asternor and law ral part of the neck, whi a turns the head to one side, and bends it feward. It are by two distinct origins; the and first tending a said flessy, from the log of the ster-num near its junction with the Gay, by the posterior fleshy, from the upper and anterior part of the clavicle. Both were a little above the anterior asterdation of the clayicle, to form one muscle, which a ms obliquely up wards and outwards to be inserted, by a thick sarong tendon, into the mastoid process of the temp out bone, which it surrounds; and gradually becoming thraner, is inserted as far back as the lambdodal suture.

ISTISECTION AS ALL DACK AS OF ADMINISTRATION OF A STEENS COSTILES. Vessibles considered those as forming a single muscle on each side or a triangular shape; hence we find the name of triangularies adopted by Doughs and Albinus; law Verlayers, who first tangen that they ought to be described as four or for the above. five distinct muscles, gave them the mane of steern costales; and in this he is very properly followed by Winslow, Haller, and Lieutand.

These muscles are situated at each side of the under surface of the sternum, upon the cartilages of the third, fourth, fifth, and sixth ribs. Their number varies in different subjects; very often there are only three sometimes five, and even six, but most usually we find

The lowermost of the sterno-costales, or what would be called the inferior portion of the triangularis, arises tendinous and fleshy from the edge and runer surfacof the lower part of the cartilago ensiforms, where a fibres intermix with those of the diaphragm and tran versalis abdominis. Its fibres run nearly in a trans verse direction, and are inserted, by a broad thin tendon, into the inner surface of the cartilage of the sixth rib, and lower edge of that of the fifth.

The serve d and bregest of the secon-costales, arises tends one counties of the steenam, laterally, a. I mining a little obliquely outwards, is inserted into the lower edge or the car tilage of the fifth, and sometimes of the fourth rib.

The third arises tendinous from the sides of the middle pair of the rinum, near the cartilages of the tourth and utto ubs. and ascending obliquely outwards, is insert a into the cartil ig of the third rib.

The touch and uppermost, which is the most frequently wanting, assess tendinous from the beginning of the cartilage of the third rib and the adjacent part of the stemme, and running almost perpendicularly upwards, is inserted by a time condon which covers a part of the second internal intercostal,) into the carmage and beginning of the bony part of the second

All these muscles are more or less intermived with one another at their origin, and this pishably occasioned them to be considered as one muscle. Fallopius informs us, that the plate Vesa ies bas given of them was taken from a dog, in which animal they are much larger than in man. Douglas has endeavoured much larger than in man. Douglas has endeavoured to associat for this difference, but his explanation is far

from being satisfactory.

As this muscle arises from the Wanday calls it character records s. As this music arrest from the characte, as well as from the sternum, Winslow calls it sterne cleude hypotens. It is a long, that, and thin mus-cle, situated obliquely between the sternum and as ayoides, behind the lower part of the masionders, and covering the steems than oide and the hypothem of the it a les, by we e snort tendmous aboves, from the carone or spation to a distribution the upper and mar-gard of the stemant, from the capsular ligament that connects that bone with the clavele, and comments from a small part of the clavele itself; from themes ascending alone the antenor and latent part of the meek, we see a muted to us fellow, opposite to the inferror pass of the lary ix, by becaus of a fish mem-brane, which forms a kind of brain alba. After this the two muscles separate again, and each passing over the side of the three I combage, is inserted into the basis of the os hybides, immediately behind the insertion of the last described muscle.

Its use is to draw the os hyordes downwards,

S PERNO MASTOIDEUS. See Sterno che do mastoideus. STERNO-THYROUTERS: Sterno-thyrodica, of Du-mas. This is that and thin, like the sterno-hyondens, but long-crand broader. It is situated at the forepart of the neck, helve-on the sternom and thyroid carrilaze, and behind the sterno hyoideus. It arises broad and besty from the upper and inner part of the stornum, between the cartilages of the first and second ribs, from each of which it receives some few Pores, as well as from the clavicie, where it joins the the steraum. From thence, growing somewhat narrower, it ascends, and, passing over the thyroid gland and the encord cartilage, is inserted tendenous into the lower and posterior edge of the rough line of the thyroid carfilage, immediately under the insertion of the sterno-hyondous. Now and there a few of is filmes pass on to the os hyondes. Its use is to draw the thyronicar-

itizes, and consequently the larynx, downwards. STURNUM. Pectoric os. The breast ions. The steening, os pectoris, or breast bone, is the oblong, flat bone, placed at the forepart of the chorax. The ossification of this bone in the fietus begins from many different points at the same time, we find it, in young subjects, composed of several bones united by cartilager; but as we advance in life, most of these cartilaces ossity, and the sternum, in the adult state, is found to consist of three, and scenetimes only of two pieces, the two lower portions being united into one; and very often, in old subjects, the whole is formed into one bone. But, even in the latter case, we may still observe the marks of its former divisions; so that, in describing the home, we may very properly divide it

The upper portion forms an irregular square, which, without much reason, has, by many writers, been compared to the figure of a heart as it is painted on cards. It is of considerable thickness, especially at its upper part. Its anterior surface is irregular, and slightly conposteriorly, it is somewhat concave. Its upper middle past is hollowed, to make way for the trachea.
On each side, superiorly, we observe an oblong arteri-lating surface, covered with cavilage in the recent subper, for receiving the cars of the clarities. Immedea oy below tais, on or a side, the bone becomes thinner, and we observe a rough surface for receiving the cartifage of the first rib, and, almost close to the in-I nor edge of this, we find the half of such another surface, which, combined with a similar surface in the | apart from each other. They sometimes assume a livid middle portion of the starram, serves for the articula-tion of the caratage of the second rib.

The modile portion is much longer, narrower, and thinner than the former; but is somewhat broader and thinner below than above, where it is connected with the upper portion. The whole of its anterior surface is sugnity convex, and within it is slightly concave. Its edge, on each side, altords four articulating surfaces, for the third, fourth, fitth, and sixth ribs; and parts of articulating surfaces at its upper and lower parts, for the second and seventh ribs. About the middle of this portion of the sternum we sometimes find a considerportion of the sternam we sometimes that a constant able hole, large enough in some subjects to admit the end of the little linger. Sylvins seems to have been the list who described it. Riolams and some others after him have, without reason, supposed it to be more frequent in women than in men. In the recent subject frequent in women than in men. In the recent subject it is closed by a carmagnous substance; and, as it does not seem destined for the transmission of vessels, as some writers have asserted, we may, perhaps very properly, with Hunauld, consider it as an accidental circumstance, occasioned by an interruption of the ossification, before the whole of this part of the bone is completely ossified.

The third and interior portion of the sterning is sepa rated from the former by a line, which is seldom alto gether objected, even in the oldest subjects. It is smaller than the other parts of the bone, and descents between the ribs, so as to have been considered as an appendix to the rest of the sternum. From its snape, and its being constantly in a state of cartilage in young subjects, it has been commonly named cartilago xi-phortes, ensiformis, or sword like cartilage: though many of the ancients gave the name of xiphoides to the whole sternum; comparing the first two bones to the bandle, and this appendix to the blade of the sword The shape of this appendix varies in dule, at subjects; In some it is longer and more pointed, in others shorter and more obtuse. Veslingius has seen it reaching as and more onaise. Vestinging has seen it rearning as low as the navel, and meconnoding the no-ton of the trunk forwards. In general it terminates obtusely, or in a single point; sometimes, however, it is bruncated, and Eustrelius and Haller have seen it trafid. Very often we find it perforated, for the transmission of branches of the mammay artery. In the adult it is usually ossified and tigged with canalage, but it very often continues can a record through fite, and Hader once found it in this state in a woman who died in her hundredth year.

The substance of the sternow, internally, light swongy texture, covered externally with a flun-bony plate; hence it happens that this bone is easily fractured. From the description we have given of it, its uses may be easily understood. We have seen it serving for the articulation of seven time ribs on each side, and hence we shall find it of considerable use in We likewise observed, that it is articurespiration. lated with each of the clavicles. It serves for the origin and insertion of several nursers; it supports the medi-asimum; and hashy, defeeds the heart and bags; and it is observable, that we find a similar bone in almost all animals that have lungs, and even in such as lave no ribs, of which latter we have an instance in the

Serretamento rix. So called because the powdered flowers and coors have the property of exciting sine ring. Ser. Ichall in previous.

STL RTOR. A norwake of respiration, as is observed in a jonewy. A strong resistant, as is observed in a jonewy. A strong resistant, as is observed in the followers of Dr. Brown, to denote that stare or the body which dis-

poses to inflammenory diseases, as opposition to those of debility, which arise from asthema.

STIBLYLIS From str' iren, animony.) An antimondal or medicine, the chart togredient or which is

antimony.
STIBIC ACID. Berzelius's name of the yellow oxide of antimony

STIBLUES ACID. So Berzelus calls the white

oxide of antimony. STI BIUM  $(\Sigma_{\mathcal{T}}\ell_{tor})$ : from  $g_t \lambda g_{to}$ , to shine) An

are cut onne of antimony. See . Intername.

STI GMA. (Seepart from 5650, to induct blows.)

J. A small red speck in the skin, or assume no clevae. cion of the cuticle. Stigmata are generally distinct, or or footstalk; as in Astragalus onobrichis.

colour, and are then termed petecher

II. A natural mark or spot on the skin. See Navus

III. That part of the female organ of a plant which is placed at the summit of the syntae eigan of a plant winds placed at the summit of the syntae. It is an indispen-sable part of the inectification, and consists of a vast number of absorbing papillar, rarely observable by the naked eye, but best seen in the Merabitis jalupa. Botanists distinguish the following differences in the form of stimuas:

 (+lobose; as in Trachelium.
 Capitate, round, but flat below; as in Sorbus and Vinca

3. Acute, ending in a point; as in Piscidia.

Obtuse; as in Negrina. Clubbed; as in George.

Emarginate, cut : as in Dentaria.

Peltate; as in Gae .ma. Uncinate, acute and reflected; as in Lantana.

Trangular; as m. i dium candidi a. Trabid; as in Tulipa gesneriana.

11. Petaliform; as in Iris germanica. 12. Canrolate; as in Croces.

13. Revolute; as in Leontodon.
14. Penneedleform, resembling a pencil-brush; as in

Milium paspalium.

ntum pespatum.
15. Perjaratum; as in Sloanea
16. Comeave; as in Frola.
17. Bejai; as in Menyanthes.
18. Trepai; as in emearyllis.
19. Matrijai; as in Castus.
20. Streete; as in Papaver. Plamose, on each side, like a hairy pen; as in

22. Four sided; as in Ameris.

Pubescent, covered with hair; as in Vicia.

24. Simple, not differing from the stile at its summit; as in Galanthus and Hippures

25. Sess the, on the germen; there being no stile. The sugma is always more or less moist with a pecuhar viscid fluid, which in some plants is so conspicuons as to form a large drop, though ucver by enough to fall to the ground. This moisture is designed for the reception of the pollen, which explodes on meeting with it; and hence the seeds are rendered capable of riper-org, which, though in many plants fully formed, they would not otherwise be.

STLBITE. See Zealite.
STLBITE. See Zealite.
STLBO MA. Groun goldo, to polish.) A cosmetic
STLLBCI DRCM. Them strile, to drop, and endo,
to tail.) A strangary, or discharge of the urine drop

by daep. Also the paraging upon a part.
STILPNOSIDIFALE. A brownen black coloured mineral, said to contain phosphone acid. It occurs along with brown room in Susony and Bayaria.

STILL STORM. AT MANY.

and with floor is of the strong and backers.

MMI. Exput. At an one.

STAIL LANT. (St. ma. cans; from stimulo, to stir up. That which possesses a power of exciting the animal energy. Stimulants are divided into,

1. Stimulants a tenera; as sinapi, cantharides, hy-

drargui prapaiationis.
2. Nimulantia diffasibilia; as alkali volatile, elec tricite heat, &c.
3. Steadantie cardioca; as cinnamomum, nux mos-

chata, a w. &c. Sil MULA'S. (Stimulus, i. m.; from 5717405, stig-mulus, per sync. stimulus, a sting or spar.) That which rouses the region or energy of a part.

Strives of three. See Lictura cross.

STIVESTONE. Swinestone. A variety of com-

STIVANSTUAL, SWIMESOME, A VALUETY OF COM-part the office, a subspecies of immestome. STIPES (Styles, dis.m.; from the Greek, 50005). A stipe, or stam of a forgue, fero, or palm. STIPLIA, A beaty appendage to the proper leaves, or to their forestalls. In cone in the set that are so laxe into review, that they are believed to be so, and can only be distinguished from leaves by their situation on the footstalk. Stipula are.

1. Solitary; as in Astrogadus onobyckis.
2. In pates; as in Lethyrus annus.

3. Lateral, on the side of the footstalk; as in Lotus tetraphullus.

4. Composite faliar, in the side of the opposite leaves; as in Trefaliam pratense.

5. Extrafaliancous, external with respect to the leaf

6. Intrafoliaceous, internal; as in Morus migra and , other changes, it is rendered fit to pass the right ordice alba.
7. Caducous, falling off before the leaves are ex-

panded; as in Prunus areu

Persistent, remaining after the fall of the leaf; as

in Trifolium pratense 9. Deciduous, falling with the leaves; as in many

stipulated plants.

10. Spinescent, becomes thorns; as in Robinia pseudacacia.

11. Sessile; as in Pisum sativum.

11. Adnate; as in Rosa camna.
13. Decurrent; as in Crotullaria sagittalis.
14. Sheathed; as in Hedysum vaginale. Lanceolate; as in Cistus helianthemum.

Subulate; as in Cassia glandulosa. Sagittute; as in Pisum maritimum.

Lunate; as in Lathyrus tingitanus. Ovate; in Onones repens.

Cordate; in Ocymum sanctum. 21. Filiform; in Ononis mauritanica.

Foliaceous; in Sambucus ebulus. Entire; in Vicia cracca.

23. Entire; in Vicuacraeca.

24. Servate; in Pisum sativum.

25. Ciliate; in Passiflora factida.

26. Toothed; in Orobus lathyroides.

27. Pinnatifid; in Viola tricalor.

STIPULARIS. Stipular: belonging to the stipula of plunts; as the spina stipularis of the Mimosa nilotica

RTIZOLO BIUM. The cowage. See Dolichos. STOE CHAS. (From 50ιχαδες, the islands on which

STOP CHAS. (From gozyateg, the islands on which it grow.) See Lawendula steechas. STOP CHAS RABBICA. See Lawendula stachas. STOP CHAS CITEINA. See Compladium stackas. STOLO. (Stolo, onis.m.; a shoot, branch, or twig.) A sucker or seyon. A numer which proceeds from the roots of some plants, and takes root in the earth. It is distinguished into. A complete group of the processing of the contraction of the contr roots of some plants, and takes root in the earth. It is distinguished into a superiterraneous, which runs on the surface above ground; as in Fagavia vesca, and Potentilla reptans; and subterraneous, which runs under the surface, as in Trateeum repens, the stoles of which are erroneously taken for the roots.

STOMACACE. (Stomacace, es. f.; from 50µa, the mouth, and κακος, evil.) Canker. A feter in the mouth, with a bloody discharge from the guns. It is generally a symptom of the scurvy. It is also a name

STOMACH. (Stomachus, chi. m.; from 50μα, the mouth, and χεω, to pour.) Vontriculus; called also Anocalia; Gaster; Nedys. A membraneous receptacle, situated in the epigastric region, which receives the food from the esophagus; its figure is somewhat oblong and round: it is largest on the left side, and gradually diminishes towards its lower orifice, where it is the least. Its superior orline, where the assopha-gus terminates, is called the cardva: the inferior orifice, where the intestine begins, the pythonus. The anterior surface is turned towards the abdominal muscles, and the posterior opposite the lumbar vertebre. It has two curvatures: the first is called the great curvature of the stomach, and extends downwards from one orifice to stomach, and extends downwards from the other, having the omentum adhering to it; the second is the small curvature, which is also between both orifices, but superiorly and posteriorly. The stoboth orifices, but superiorly and posteriorly. mach, like the intestinal canal, is composed of three coats, or membranes: 1. The outermost, which is very firm, and from the peritonaum. 2. The muscular, which is very thick, and composed of various muscular fibres; and, 3. The innermost, or villous coat, which is covered with exhaling and inhaling vessels, and mucus. These coa's are connected together by cellular membrane. The glands of the stomach which separate the mucus are situated hetwan the villous and rate the mucus are situated between the villous and muscular coat, in the cellular structure. The arteries of the stomach come chiefly from the cœliac artery, and are distinguished into the coronary, gastro-epiploic and short arteries; they are accompanied by which have similar names, and which terminate in the vena portæ. The nerves of the stomach are very numerous, and come from the eighth pair and intercostal The lymphatic vessels are distributed throughout the whole substance, and proceed immediately to the thoracic duct. The use of the stomach is to excite hunger and partly thirst, to receive the food from the esophagus, and to retain it, till, by the motion of the stomach, the admixture of various fluids, and many

other changes, it is remered in to pass the right office of the stomach, and afford chyle to the intestines.

Stomach, inflammation of. See Gustrits.
Stomach fram. This is an instrument introduced of late for the purpose of emptying the stomach of its of late for the purpose of emptying the stomach of the contents, when poison has been swallowed. It is a long calleter made of gum clastic, which being intro-duced motthe mouth, is passed into the osophagus and pressed forwards, until the point reaches the stomach A syringe adapted to the upper end is then applied, and a syringe austrice to the upper end is their applied, and the stomach is emptied of its fluid contents. If poison be swallowed in a liquid state, it may thus be most effectually removed, and rendered harmless. A.]

STOMACHIC. (Stomachicus; from 50µaxos, the comach.) That which excites and strengthens the stomach.) That which action of the stomach.

STOMA CHICA PASSIO. A disorder in which there is an aversion to food; even the thought of it begets a nausea, anxiety, cardialgia, and effusion of saliva, and often a vomiting. Fasting is more tolerable than eating; if obliged to eat, a pain follows that is worse than ng; House, hunger itself.
STOMACHUS. See Stomach.
STONE. See Calculus.
STONE CROP. See Sedum acre.

STORAX. Etopas. See Styraz. Storax, liquid. See Liquidambra. Storax Liquida. See Liquidambra.

STORAX RUBRA OFFICINALIS.

Cascarilla bark was so called.

Storar, white. See Myroxylon perunferum.

STORCK, ANTHONY, a medical professor of considerable note at Vienna, who succeeded the celebrated Van Swieten as president and director of the faculty of medicine in that university, and was also honoured with the appointment of principal consulting physician to the Empress Maria Theresa. He distinguished himself chiefly by a long and assiduous course of experiments, with various narcotic vegetables, as henbane, stramonium, aconite, &cc.; of which, though he appears to have overrated the efficacy, yet certainly he had the merit of calling the attention of practitioners to a class of active remedies, which may often be highly useful under prodent management. His various tracts on these subjects were printed between 1760 and 1771, and they have since passed through several editions and translations. He was also author of a collection of cases, which occurred under his observation in the hospital at Vienna; and this work was afterward continued by his successor, Dr. Collin.

STRABALISMUS. See Straismus.

STRABI'SMUS. (From 5ραβιζω, to squint.) Stra-STRABISMUS. (From spapego, to squint.) Scra-balismus: Strabositas. Squinting. An affection of the eye by which a person sees objects in an oblique manner, from the axis of vision being distorted. Cul-len arranges this disease in the Class Locales, and Order Dyscinesia. He distinguishes three species:—

1. Strabismus habitualis, when from a custom of using only one eye

2. Strabismus commodis, when one eye in comparison with the other, from greater weakness, or mobility, cannot accommodate itself to the other.

Strabismus necessarius, when some change takes place in the situation or figure of the eye, or a part

STRABO'SITAS. See Strabismus. STRAHLSTEIN. See Actinolite.

STRA'MEN CAMELORUM. Cainel's hay. See Andro-

pogon schenanthus.
STRAMMO NUM. See Stramonium.
STRAMOONIUM. (From stramen, straw; so called from its fibrous roots.) See Datura stramonium.

from its fibrous roots.) See Datura stramonium.

Stramonium opticinale. See Datura stramonium.

Stramonium spinosum. See Datura stramonium.

Stramonium spinosum. See Datura stramonium.

Stramonium spinosum. See Datura stramonium.

Stramonium in the breast, from milk.

Stramonium.

Stramonium in the breast, from milk.

Strangury.

Stramouria, a. f.; from spays, a drop, and oupos, urine.) A difficulty in making water, attended with pain and dripping. See Ischuria.

Stramonium its virtues in healing tresh wounds, and its usefulness to scidlers. See Acceleramilic follow.

fulness to soldiers.) See Achillea millefolium. STRATIO'TICUM. See Achillea millefolium. STRAWPERRY. See Fragaria.

STRAWBERRY. See Fragaria.
STREATHAM. A village in Surrey, where is a

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treak purging water, drunk to the amount of one, two, |

or more pints in a morning. STRE'MMA. (Στρεμμα: from ςρεφω, to turn.) A

strain or sprain of the parts about a joint.
STRIATUS. Striate. Applied to stems, seeds, &c. as the stem of the Enanthe fistula, and seeds of the Comum maculatum.

STRICTURE. Strictura. A diminution, or contravted state of some tube, or duct, of the body, as the temphagus, intestines, urethra, vagina, &c. They are either organic or spasmodic

STRICTUS. In botanical language it means straight, B Caulis strictus.

STRI'DOR. A noise of crashing

STRIDGE DENTIUM. Grinding of the teeth.
STRIGA. A species of pubescence of plants, white, bristle-like, with broad bases mostly decumbent; as in Borago officinalis.

STRY GL. Strigilis. An instrument to scrape off the sweat during the gymnastic exercises of the ancients, and in their baths: strigits were made of metal, horn, or ivory, and were curved. Some were made of linen

made of linen.

STRIOWENTUM. The strigment, filth, or sordes, scraped from the skin, in baths and places of exercises.

STROBILUS. A cone. A species of pericarpium, or seed-vessel. A catkin hardened and entarged into a seed-vessel; an example of which is in the pinus, or fir. It is either come, cylindric, onate, globose, squa-mose, or spurious, consisting of membraneous and not

woody scales; as in Orrganum marjorana STRONTIA. (So called because it was first found in a lead mine at Strontan, in Scotland). A grayish white-coloured earth, found in combination with carbonic acid in the mineral called Strontianite.

Pure strontia is of a grayish-white colour; a pungent Furestronta is of a grayist-winte colour, a pungen, acrid taste, and when powdered in a mortar, the dust that rises irritates the lungs and mostrils. Its specific gravity approaches that of barytes. It requires rather more than 160 parts of water at 60° to dissolve it; but of boiling water much less. On cooling, it crystallizes more than 160 parts of vater according it crystallizes of boiling water much less. On cooling, it crystallizes in thin, transparent, quadrangular plates, generally parallelograms, seldom exceeding a quarter of an inch in length, and frequently adhering together. The edges are most frequently bevelled from each side. Somethor, assume a cubic form. These crystals continued in the continued of the are most frequently bevelled from each side. Some-times they assume a cubic form. These crystals con-tain about .68 of water; are soluble in 51.4 times their weight of water at 60°, and in little more than twice their weight of boiling water. They give a blood-red colour to the flame of burning alkohol. The solution of strontia changes vegetable blues to a green. Stron-tia combines with sulphir citier in the wet or dry way, and its sulphuret is soluble in water.

In its properties, stronta has a considerable affinity to barytes. It differs from it chiefly in being infusible, much less soluble, of a different form, weaker in its affinities, and not poisonous. Its saline compounds afford differences more marked.

The basis of strontia is strontium, a metal first pro-The basis of storage is storage and, a livear ties pro-cured by Sir II. Davy, in 1808, precisely in the same manner as barium, to which it is very analogous, but has less lustre. It appeared fixed, difficultly fusible, and not volatile. It became converted into strontia by exposure to air, and when thrown into water, decomposed it with great violence, producing hydrogen gas, and making the water a solution of strontia. By igniting the mineral strontianite intensely with charcoal powder, strontia is cheaply procured.

See Heavy spar.

1. The metallic base of strotnia. See STRONTIUM.

STROPHIOLUM. A little curved gland-like part near the scar or base of some seeds; as that of Asarum, but especially in several papilionaceous genera, as Ulex, Spartium, &c.
Strophos. (From 5ρεφω, to turn.) A twisting of

STRO PHULUS. A papulous eruption peculiar to infants, and exhibiting a variety of forms, which are described by Dr. Willan, under the titles of intertinc-

described by B. What, dider the thirs of mertane-tus, albidus, confertus, volaticus, and candidus. 1. Strophulus intertinctus, usually called the re-gum, and, by the French, Efforesce ce benigne. The papule characterizing this affection, rise sensibly above the level of the cuticle, are of a vivid red colour, and commonly distinct from each other. Their number and extent vary much in different cases. They ap-

pear most constantly on the checks, foreirm, and back of the hand, but are sometimes diffused over the whole body. The papula arc, in many places, intermixed with stignata, and often with red patches of a larger size, which do not, however, occasion any elevation of the curies. the cuticle. A child's skin thus variegated, somewhat resembles a piece of red printed linen; and hence this eruption was formerly called the red goom, a term which is still retained in several counties of England, and may be found in old dictionaries. Medical writers have changed the original word for one of a similar sound, but not more significant. The strophulus intertinetus has not, in general, any tendency to become pustular; a few small pustules, containing a straw-coloured watery fluid, occasionally appear on the back of the hand, but scarcely merit attention, as the fluid is al-ways reabsorbed in a short time, without breaking the cuticle. The eruption usually terminates in scurf, or exfoliation of the cuticle; its duration, however, is very uncertain; the papulæ and spots sometimes remain for a length of time without an obvious alteration; somea length of time without an obvious aderation, some times disappear and come out again daily; but, for the most part, one eruption of them succeeds another, at longer intervals, and with more regularity. This com-plant occurs chiefly within the first two months of lactation. It is not always accompanied with, or preceded by any disorders of the constitution, but appears occasionally in the strongest and most healthy children. Some authors connect it with aphthous ulcerations common in children, supposing the latter to be a part of the same disease diffused along the internal surfaces of the mouth and intestines. The fact, however, seems of the mount and intestines. The ract, nowever, scenis to be, that the two affections alternate with each other: for those infants who have the papulous eraption on the skin are less liable to aphtha; and when the aphtha take place to a considerable degree, the skin is generally only and free from eruption. The skin is generally pule and free from eruption. The strophulus intertinctus is, by most writers, said to originate from an acidity, or acrimonious quality of the milk taken into a child's stomach, communicated afterward to the blood, and stimulating the cutaneous alterward to the blood, and stimulating the cutaneous exerctories. This opinion might, without difficulty, be proved to have little foundation. The predisposition to the complaint may be deduced from the delicate and tender state of the skin, and from the strong determination of blood to the surface, which evidently takes place in infants. The papulous eruption is, in many cases, connected with a weak, irritable state of the alimentary canal, and consequent indigestion. For if it he hy any means saddenly renelled from the surface. it be by any means suddenly repelled from the surface; diarrhea, vomiting, spasmodic affections of the bowels, and often general disturbance of the constitution succeed: but as soon as it reappears, those internal com-plaints are wholly suspended. Dr. Armstrong and others have particularly noted this reciprocation, which makes the red gum, at times, a disease of some importance, though in its usual form it is not thought to be in any respect dangerous. On their remarks a necessary caution is founded, not to expose infants to a stream of very cold air, nor to plunge them unseasonably in a cold bath. The most violent, and even fatal symptoms, have often been the consequence of such impru-

dent conduct.

2. The Strophulus albidus, by some termed the white gum, is merely a variety of strophulus intertinctus, but deserves some notice on account of the different appearance of its papule. In place of those described as characterizing the red gum, there is a numserment as characterizing the red guin, unter is a hum-ber of minute whitish specks, a little elevated, and sometimes, though not constantly, surrounded by a slight redness. These papulæ, when their tops are removed, do not discharge any fluid; it is, however, probable, that they are originally formed by the depo-sition of a fluid, which afterward concretes under the cuticle. They appear chiefly on the face, neck, and brenst, and are more permanent than the papulæ of the red gum. In other respects, they have the same nature and tendency, and require a similar plan of treatment. Although a distinctive name has been applied to this eruption, when occurring alone, yet it is proper to observe, that, in a great number of cases, there are red papulæ and spots intermixed with it, which prove its connexion with the strophulus intertinctus.

3. The Strophulus confertus. An eruption of numerous papulae, varying in their size, appears on different parts of the body in infants, during dentition, and has thence been denominated the tooth-rash.

STR

is sometimes also termed the rank red gum. About the fourth or fifth month after birth, an eruption of this kind usually takes place on the cheeks and sides of the nose, extending sometimes to the forehead and arms, but rarely to the trunk or body. The papulae on the face are smaller, and set more closely together than in the red gum; their colour is not so vivid, but they are generally more permanent. They terminate at length with slight exfoliations of the cuticle, and often appear again in the same places, a short time after-ward. The papade which, in this complaint, occasion-ally appear on the back or loins, are much larger, and gomewhat more distant from each other, than those on the face. They are often surrounded by an extensive circle of inflammation, and a few of them contain a semi-pellucid watery fluid, which is reabsorbed when the inflammation subsides. In the seventh or eighth mouth, the strophulus confertus assumes a somewhat different form; one or two large irregular patches ap pear on the arms, shoulder, or neck; in which the pa pulæ are hard, of a considerable size, and set so close together, that the whole surface is of a high red co-Most commonly the forearm is the seat of this eruption, the papulæ rising first on the back of the hand, and gradually extending upwards along the arm. Sometimes, however, the eruption commences at the elbow, and proceeds a little u; wards and downwards on the outside of the arm. It arrives at its height in about a fortught; the papulæ then begin to fade, and become flat at the top; afterward the cuticle exfoliates from the part affected, which remains discoloured, rough, and irregular, for a week or two longer.

An obstinate and very painful medification of this disease takes place, though no often on the lower extremities. The papulae spread from the calves of the legs to the thighs, nates, forms, and round the body, as high as the navel: being very numerous and close together, they produce a continuous redness over all these nexts.

these parts.

The cuticle, presently, however, shrivelled, cracks in various places, and finally separates from the skin in large pieces. During this pieces a new cuticle is formed, notwithstanding which the complaint recurs in a short time, and goes through the same course as before. In this manner successive eruptions take place. during the course of three or four months, and perhaps do not cease till the child is one year old, or somewhat Children necessarily suffer great uncasiness from the heat and irritation occasioned by so extensive an eruption, yet while they are affected with it, they often remain free from any internal or februle com-This appearance should be distinguished from the intertrigo of infants, which exhibits a uniform smooth, shining surface, without papular; and which affects only the lower part of the nates and inwhich affects only the lower part of the nates and inside of the thighs, being produced by the stimulus of the urine, &c. with which the child's clothes are almost constantly wetted. The strophulus conferus, where the child is otherwise healthy, is generally ascribed to a state of indigestion, or some feverals complaint of the mother or naise. Dr. Willam, however, asserts, that he has more frequently seen the emption when no such cause was evident. It may, with more probability, be considered as one of the numerous symp-It may, with more toms of irritation, arising from the inflamed and painful state of the gums in dentition; since it always oc curs during that process, and disappears soon after the first teeth have out the goms.

The Strophulus volatious is characterized by an appearance of small circular patches, or clusters of papulæ, arising successively on different parts of the body. The number of papulæ in each cluster is from six to twelve. Both the papule and their intersices are of a high red colour. These patches continue red. are of a high red colour. These patches continue red. with a little heat, or riching, for about four days, when they turn brown, and begin to exfoliate. As one patch declines, another appears at a small distance from it; and in this manner the complaint often spreads gradually over the face, body, and limbs, not terminating dually over the face, body, and thinks, not terminately in less than three or four weeks. During that time the child has sometimes a quick pulse, a white tongue, and seems uneasy and fretful. In many cases, however, the eruption takes place without any synptoms of internal disorder. The above complaint has been by some writers denominated ignis volatious infantum; under this title Astrue and Lowry have described one of the forms of crusta lactea, in which a successive,

emption of pustules takes place on the same spet genrally about the mouth or eves, in children or different ages, and sometimes in admits. The movula relation ages, and some once in accounts. The merged retrieve organization mentioned by Witheraius, Semerius, and 8 magus, agree in some respects with the strophaus volutions; but they are described by other German authors as a species of crystpelas, or as irregular cillores-cences affecting the genuals of infants, and often prov-ing fatal. The strophulus volations is a complaint by no means frequent. ... most cases which have come under Dr. Willam's observation, it appeared between the third and sixth month; in one instance, however, it occurred about ten days after birth, and continued three weeks, being gradually diffused from the checks and torchead to the scalp, afterward to the trunk of the body and to the extremities; when the patches exfoli-ated, a red surface was left, with a slight border of de-

5. Strephulus candidus. In this form of strephulus, the papula are larger than in any of the foregoing species. They have no inflammation round their base; their surface is very smooth and shining, whence they appear to be of a lighter colour than the adjoining cuti-They are diffused, at a considerable distance from each other, over the loins, shoulders, and upper part of the arms; in any other situation they are seidom found.

This eruption affects infants about a year old, and

most commonly succeeds some of the acute diseases to which they are liable. Dr. Willan has observed it on their recovery from a catarrhal fever, and after in-thammation of the bowels, or lungs. The papula continne hard and elevated for about a week, then gra-

dually subside and disappear.

STRUMA. (Struma, w. f.; from strue, to heap up, or a struendo, because they grow insensibly.) This term is generally applied to scrofula, and by to bronchocele, or an induration of the thyroid gland. STRUMEN. (From struma, a scrofulous tumoun.)
An herb so called from its uses in healing strumous

STRUMOUS. (Stromosus; from struma, a wen or

scrofula) Of the nature of scrofula.

STRUMUS. An obsolete name of the berry bearing chickweed, which was supposed to be efficacious in

the cure of scrolula. See Cucchalas bace/jerus.

STRUTHUM. (From gadlos, a sparrow; so named from the resemblance of als flowers to an unfledged sparrow.) The master work. See Importanta

STRYCHNIA. Strychnine. An alkaline substance obtained from the bean of the strychnos ignatia by the following process: The bean was tasped down as small as possible. It was then exposed to the action of nitric ather in a Fapin's digester. The residue, The residue, thus deprived of a quantity of fatty matter, was digested in alkohol as long as that reagent was capable of dissolving any thing. The alkoholic solutions were evaporated to dryness, and the residue redissolved in water. Caustic potassa being dropped into the solution, a white crystalline precipitate fell, which was streamia. It was purified by washing a in cold water, dissolving it in alkohol, and crystallizing it. Saychma was obtained likewise from the bean of the strychnos ignatia, by boiling the infusion of the lean with mag-nesia, in the same manner as Robiquet had obtained morphia from the infusion of opium.

The properties of strychnia, when in a state of pu

rity, are as follows:

It is crystallized in very small four-sided prisms, terminated by four-sided low pyramids. It has a white colour, its taste is intolerably bitter, leaving a mean-lie in pression in the mouth. It is describe of smell. It is not altered by exposure to the air. It is neither fus ble nor volatile, except at temperatures at which it undergoes decomposition. It is charred at the temperature at which oil enters into ebullition (about 580°). When strongly heated, it swells up, blackens, gives out empyreumatic oil, a little water, and acetic acid; carbonic acid and carburetted hydrogen gases are disengaged, and a bulky charcoal remains behind. force, that a barry charge of copper, it gives out only car-benie acid gas and water. It is very fittle soluble in cold water, 100,000 parts of that figuor dissolving only 15 jarts of structura; but it dissolves in 2,500 times its weight of boiling water. A cold solution of strychnia in water may be diluted with 100 times its volume of that liquid, without losing its bitter taste.

When structuria is introduced into the stomach, it of Caniram cucurbitifera malabariensis, of Plukenet, nots productions energy. A locked jaw is reduced in a second time, and the animal is speedily destroyed. Half a gram of strychma blown into the throat of a rabbit proved tatal in five minutes, and brought on locked jaw in two minutes.

Sulpante of strucknia is a salt which crystallizes in transparent cubes soluble in less than ten times its weight of cold water. Its taste is intensely bitter, and

weight of cold water. Its taste is intensely man, and the strychina is precipitated from it by all the soluble salminble bases. It is not altered by exposure to the air. Aluxintee of strychina (typstallizes in very small needles, which are grouped together, and before the microscope exhibit the form of quadrangular prisms. When exposed to the air it becomes opaque more soluble in water than the sulphate, has a similar taste, and acts with the same violence upon the animal economy as all the other salts of stryclinia.

Phosphate of strychnia crystallizes in four-sided isms. It can only be obtained neutral by double de-

composition.

Narate of strucknia can be obtained only by dissolving strychnia in nitric acid, diluted with a great deal of water. The saturated solution, when cautiously evaporated, yields crystals of neutral nitrate in pearly needles. This sait is much more soluble in hot than in cold water. Its taste is exceedingly bitter, and it acts with more violence upon the animal economy chan pure strychma. It seems capable of uniting with an excess of acid. When heated, it becomes yellow, and undergoes decomposition. It is slightly soluble in alko-

Inol, but is unsoluble in auther.

When concentrated nitric acid js poured upon strychnia, it immediately strikes an amaranthine coloni, followed by a shade similar to that of blood. To this colour succeeds a tuit of yellow, which passes afterward into green. By this action the strychnia seems to be altered in its properties, and to be converted into a substance still capable of uniting with

Carbonate of strychnia is obtained in the form of white flocks, little soluble in water, but soluble in car-

bonic acid.

Acetic, oxalic, and tartaric acids form with stryclmia neutral saits, which are very soluble in water, and to e or less capable of crystallizing. They crystalhere best when they contain an excess of acid. The neutral acetate is very soluble, and crystallizes with

Hedrocyanic acid dissolves strychnia, and forms

with it a crystallizable salt

Strychnia combines neither with sulphur nor carbon. When bodied with jodine, a solution takes place, and jodate and hydriodate of strychma are formed. Chlo-Time acts upon it precisely in the same way

Stryclmia, when dissolved in alkohol, has the property of precipitating the greater number of metallic oxides from their and solutions. It is precipitated by the alkelies and alkaline earlies; but the effect of the

the ablectes and advance carries; but the effect of the crafts proper has not been fired.

STRYCEMINE. See Strucknet.

STRYCEMINE. See Strucknet.

STRYCEMINE. She strucknets.

STRYCEMINE. She strucknets called the disorder produced by eating the deadly nightshade.

STRYCHNOS. (Struckness, i. m.; an ancient name when occurs in Plmy and Dissecrides derived

from growinger to overthrow, and applied most probably from the overpowering narcotic quality of the many room the overpowering across quanty of the plant to which it we assigned, στρεχνος of the Greeks being a kind of nightshade. Limiteus adopted this name for the present genus, on account of the analogy of its narcone properties with the plant of the ancients. Some derive it from χωνχο, to toment: from its pro-perties of producing insamity.) The name of a genus plants in the Laungan system. Class, Pentandria; Order, . Honoghand.

Order, Monagana.

Servenious New Yomica. The systematic name of the tree the seed of which is called the poison-nat. New comica, Nor metelle. The new yomica, lignum rolutionaria, and faba sancti lignatii, have been long known in the Materia Medica as increotic poisons, brought from the East Indies, while the vegetables which produced them were unknown, or at least not

botanically ascertained.

By the judicious discrimination of Linnaus, the nux vonnea was found to be the fruit of the tree described and ligured in the Hortus malabarrous, under the name

now eafled Strychnos nus comeca.

To this genus also, but upon evidence less conclusive, he likewise justly reterred the colaboration. But sive, he have guest iterative the connected and help the fall same I guard he merely connected might belong to this family, as appears by the query, and Strychni species? Which subsequent discoveries have enabled us to decide in the negative; for in the Supp. Plant, it constitutes the new genus Ignatia, which Loureiro has lately confirmed, changing the specific name amara to that of pudippinica. and ignatia are, however, nearly allied, and both rank under the Order Solanacca.

Dr. Woodville has inquired thus far into the botanical origin of these productions, from finding that, by medical writers, they are generally treated of under the same head, and in a very confused and indiscrimithe same nead, and in a very contrast and indiscriminate manner. The seed of the first, or berry of this tree, Strychnos naz vomica, is the officinal nux vonica; it is flat, round, about an inch broad, and near aquatter of an inch thick, with a prominence in the middle on both sides, of a gray colour, covered with a hand of woolly matter; and internally hand and tough like horn. To the taste it is extremely bitter, but has no remarkable smell. It consists chiefly of a gunning matter, which is moderately bitter; the resinous part is very inconsiderable in quantity, but intensely bitter; hence rectified spirit has been considered as its best

Nux vomica is reckoned among the most powerful poisons of the narcotic kind, especially to brute animals; nor are instances waiting of its deleterious effects upon the human species—It proves fatal to dogs in a very short time, as appears by various authorities. Hillefield and others found that a also poisoned hares, foxes, wolves, cats, rabbits, and even some birds, as crows and ducks; and Loureno relates, that a horse died in four hours after taking a drachm of the seed in a half-roasted state.

The effects of this baneful drug upon different animals, and even upon those of the same species, appear to be rather uncertain, and not always in proportion to the quantity of the poison given. With some animals it produces its effects almost instantaneously; with others, not till after several hours, when laborious respiration, followed by torpor, tremblings, coms, and convulsions, usually precede the fatal spasme, or tetans, with which this drug commonly extreguishes life.

From four cases related of its mortal effects upon human subjects, we find the symptoms corresponded nearly with those which we have here mentached of brutes; and these, as well as the dissections of dogs names; and mese, as were as the dissections of open to the stomach or intestines, prove that the not voomea acts in mediately upon the nervous system, and destroys life by the virulence of its narrotic influence.

The quantity of the seed necessary to produce this effect upon a strong dog, as appears by experiments, need too to be more than a scruple; a rabbit was killed by five, and a car by four, grains; and of the four persons to whom we have alladed, and who unfortunately perished by this deleterious drug, one was a gul ten years of age, to whom fitteen grams were exhibited at twice for the cure of an ague. Loss, however, tells us, that he took one or two grams of it in substance, without discovering any bad effect; and that a friend of his swallowed a whole seed without

in Britain, where physicians seem to observe the rule valtem non moco e, more strictly than in many other countries, the nux vomica has been rarely, if ever, employed as a medicine. On the Continent, heavever, and especially in Germany, they have ertainly been guided more by the axion, "What is incapable of doing much harm, is equally unable to do much good." The truth of this remark was very fully exemplified by the practice of Baron Störck, and is farther illustrated by the medicinal character given of nux vomica, which, from the time of Gesner till that of a modern date, has been recommended by a succession of authors as an antidote to the plague, as a febrision of authors as an amount of parameters fruge, as a vermituge, and as a remedy in mania, hypochondriasis, hysteria, rheumatism, gout, and canine madness. In Sweden, it has of late years been sucmadness. In Sweden, it has be not years bed sie-cessfully used in dysentery; but Berguis, who tried its effects in this disease, says, that it suppressed the flux for twelve hours, which afterward returned 318

A woman who took a scruple of this drug I night and morning, two successive days, is said to have seized with convulsions and vertigo, notwithstanding which the dysenteric symptoms returned, and the disorder was cured by other medicines; but a pain in the stomach, the effect of the nux vomica, continued

afterward for a long time.

Bergius, therefore, thinks it should only be adminis-tered in the character of a tonic and anodyne, in small doses (from five to ten grains), and not till after proper laxatives have been employed. Louriero recommends it as a valuable internal medicine to those story which purpose he roasts it till it becomes perfectly black and friable, which renders its medicinal use sate without impairing its efficacy. It is said to have been used successfully in the cure of agues, and has also been reckoned a specific in pyrosis, or water brash.

STRYCHNOS VOLUBILIS. The systematic name of

the tree which was supposed to afford the Jesuit's

ean. See Ignatia amara. STUPEFACIENT. (Stopefacions; from stup fa

cio, to stupity. Of a stupitying quality. STUPHA. From 5τφω, to bind.) Stupa; Stuppa.

A stupe, or fomentation.

STUPOR. (From Stupeo, to be senseless.) Insensibility.

See Stupha

STY PR. See Stupha.
STYE. See Hardadum.
STYGIA. (From Nya., a name given by the poets to one of the rivers in hell.) A water made from sublimate, and directed in old dispensatories, was so called from a supposition of its poisonous qualities.

of the Aqua regia also, from its corrosive qualities, STYLIFORM, (Styliforms, from stylis, a bodkin, and forma, a likeness.) Shaped like a bodkin, or

BEVILLEGUE. (From 50 los, a bodkin.) A tent made in the form of a bodkin.

STYLO. Names compounded of this word belong to muscles which are attached to the styloid process of the temporal bone; as,

STYLO CERATO HYOIDEUS. See Style hyoideus.

STYLO-CHONDRO-HYOIDEUS. See Stylie-Inquitiens.
STYLO-CHONDRO-HYOIDEUS. See Stylie-Inquitiens.
STYLO-CHONDRO-HYOIDEUS. See Stylie-Inquitiens.
Stylio-Chondro-Hyoideus, of Dumas. A nouscle situated between the lower jaw and os hyoides
laterally, which draws the tongue aside and back
wards. It arises tendinous and theshy from the styloid process, and from the ligament which connects that process to the angle of the lower jaw, and is inserted into the root of the tongue, runs along its rides, and is

insensibly lost near its tip.

STYLO HYGINEES. Styln hynodom, of Dumas. A muscle situated between the lower paw, and os hyvides laterally, which pulls the os hyoides to one side and a little upwards. It is a small, thin, fleshy muscle, situated between the lower paw. ated between the styloid process and os hyoides, under the posterior belly and middle tendon of the digastricus, near the upper edge of that muscle. It arises by a long thin tendon, from the basis and posterior edge of the styloid process, and, descending in an oblique directhe styling process, and, descending in an oblique urrection, is inserted into the lateral and anterior part of the os hyoides, near its horn. The fleshy belty of this muscle is usually perforated on one or both sides, for the passage of the middle tendon of the digastricus. Sometimes, though not always, we find another smaller muscle placed before the stylo-hyordeus, which, from its having nearly the same origin and insertion, and the same use, is called stylo huordens-alter. It seems to have been first known to Eustachius: so that Dong has was not aware of this circumstance when he placed it among the muscles discovered by himself. It arrses from the apex of the styloid process, and sometimes by a broad and thin aponeurosis, from the inner and poste rior part of the angle of the lower jaw, and is inserted into the appendix, or little horn, of the os hyondes.

The use of these muscles is to pull the os hyondes to one side, and a little upwards.

STYLO AVOIDEUS ALTER. See Stylo-hyoideus. STYLO-MASTOID FORAMEN. Foramen s'ulo-m Foramen s'ulo-mostoi-

deum. A hole between the styloid and mastoid process of the temporal bone, through which the portio dura of the auditory nerve passes to the temples.

STYLO-PHARNAGES. Stylo there-pharmagen, of

Dumas. A muscle situated between the lower jay and os hyoides laterally, which dilates and tasses the pharynx and thyroid cartilage upwards. It arises fleshy From the root of the styloid process, and is inserted into ambra.

the side of the pharynx and back part of the thyroid

STYLUS. The style of a flower is the column which proceeds from the germen, and bears the stigma It is,

Fdiform, in Jasminum, and Zea mays.

Linear, in Chodina

3. Subulate, thicker below than towards apex; as in Geranium.

4. Clavate, thicker at its summit than towards its base; as in Lencojum vernum.

Triangular, in Pisum.

6. Britis, in Polygonum persicaria. Tryea, in Bryoma and Momordica.

8. Dichotomous, divided into two, which again blfurcate; as in Cordia.

9 Long, much more so than the stamina; as in Campamila and Drauthus.

Persistent, not going off after the fecundation of the germen; as Synapis.
 STYMATO SIS. From σωω, to have a priapism.)

A violent election of the penns, with a bloody discharge. Stype Rix. From ς εφω, to bind: so called from

STYPTIC. (Stephens: from ςυφω, to adstringe.)

A term given to those substances which posses the power of stopping harmorrhages such as turpentine, alum, &c

STYRACI'FLUA. (From styrax, storax, and fluo, to

Seyramufelum. (From styrux, storax, and fluo, to flow.) See Lequidianhra.

STYRAX. (Styrux, acis.m. and f.; from swoot, a reed in which it was used to be preserved.). The name of a genus of plants in the Linnaran system. Class. Decaccina; Order, Managama.

2. The pharmacopacial name of the Styrux ca-

lamita.

STYRAN ALBA. See Muroxylon peruiferum.
STYRAN BENZOIN. The systematic name of the tree STRAN BENZOIN. The systematic name of the tree which affords the gum benzoon. Benzot; Benyounum; Assa duleis; Assa valorata; Laquor cyreniacus; Balzonum; Benzoon; Benzo, Benjuc, Gum bengazornum; Benzom; Benjur; Benjurn. Gum benja-min. This substance is classed, by modern chemists, among the balsams. There are two kinds of benzom; benzor amygdaloides, which is formed of white tears, resembling almonds, united together by a brown matter; and common benzoen, which is brown and without tears. The tree which affords this balsam, formerly cailed Laurus benzom; Benzoifera; Arhor benne, 18
the Styrar-folius oblong is acuminatis, subtus tomentosis, racemis compasses langitudine foliorum, of Diyander, from which it is obtained by meisions. The benzom of the shops is usually in very large brittle masses. When chewed it impacts very infle taste, except that it impresses on the palate a slight sweetness; its smell, especially when rubbed or heated, is extremely fragrant and agreeable. Gum-benjamin was tremely ringram and agreeaute. Combining was analyzed by Brande. The products obtained by distillation were, from 100 grains, benzoic acid, 9 grains, acidulated water, 5.5; butyraceous and empyreumatic oil, 60; britle coal, 22; and a mixture of car buretted hydrogen and carbonic acid gas, computed at 3.5. On treating the empyreumatic oil with water, bowever, 5 grams more of acid were extracted, making 14 in the

From 1560 grains of benzoin, Bucholz obtained 1250 of resin; 187 benzoic acid; 25 of a substance similar to balsam of Peru, a of an asomatic substance soluble in water and alkohol; and 30 of woody fibres and im

Æther, sulphuric and acetic acids, dissolve benzoin; so do solutions of potassa and socia. Nitre acid acis violently on it, and a portion of artificial tanuin is formed. Attinoma dissolves it sparingly. It has formed. Ammonia dissolves it sparingly. It has rarely been used medicinally in a simple state, but its preparations are much esteemed against inveterate coughs and philisical compariats, unautended with much fiver; it learness been used as a cosmeric, and in the way of tunigation, for the resolution of indolerat amonies. The acid of benzoin is employed in the tineture complure composite, and a tineture is directed to be made of the balsam.

STYRAX CALAMITA. Storax in the cane, because it was former'y brought to us in reeds, or canes. See

Mar in officinalis.

Styrax Colata. Strained storax.

Styrax Liquid. Liquid storax. See Liquid

Styrax officinalis. The systematic name of the cure it, pour on cork, grated to powder, six times its cee which affords the solid storax. Officinal storax. weight of nitric acid, of the specific gravity of 1.96, tyrax—folius ovatis, subtus villosis, vaccinis simple—in a tubulated retort, and distil the mixture with a gentree which affords the solid storax. Officinal storax. tree which ahoras the bond stollar.

Styrar-folius ovatis, subtus villosis, racemis simpliculus folio brevioribus, of Linnaus. There are two kinds of storax to be found in the shops; the one is usually in irregular compact masses, free from impuri usuary in irregular compact masses, tree from impair thes, of a reddis-thrown appearance, and interspersed with whitish teats, somewhat like gum ammoniae, or benzoin; it is extremely fragrant, and upon the application of heat readily melts. This has been called storar in lump, red storar, and, when in separate teats, storar in trans. The other kind, which is called the common storar, is in large masses, very light, and bears no external resemblance whatever to the former storax, as it seems almost wholly composed of dirty saw dust, caked together by resinous matter. Storax was formerly used in catarrhal complaints, coughs, asthmas, obstructions, &c. In the present practice it is almost totally disregarded, notwithstanding it is an efficacious remedy in nervous diseases.

STYRAX RUBRA. Red storax, or storax in the tear, SUB. 1. In anatomy, it is applied to parts which lie under the other word or name, which sub precedes as subscapularis, under the scapula, &c.

2. In pathology, it is used to express an imperfect

disease, or a feeble state of a disease; as subluxation, subacute, &c.

3. In botany, when shape, or any other character. cannot be precisely defined, sub is prefixed to the term used; as subrotundus, roundish; subsessiles, not

quite destitute of a footstalk, &c.

4. In chemistry, this term is applied, when a salitiable base is predominant in a compound, there being a deficiency of the acid; as subcurbonate of potassa,

Subcarbonate of soda.
Subace Tas Cupri. See Verdigris

SUBACETAS CUPRI. See Verdigris. SUBACETATE. Subacetas. An imperfect ace-

See Verdigris

Nuhacetate of copper. See Verdigris. Subala'ris vena. The vem of the axilla or arm-pit.

Subcarbo'nas Potass E. See Potassa subcarbonas SUBCARBONAS FERRI. See Fire subcarbonas. SUBCARBONAS PLUMBI. See Plumbi subcarbonas. SUBCARBONATE. Subcarbonas. An imperfect

SUBCARTILAGI NOUS. (Subcartilaginosus from sub, under, and cartalage, a cartilage. Of a structure approaching to that of cartilage. SUBCLAVIAN. (Subclaviculus; from sub, beneath, and clariculus, the clavicle.) That which is, or

passes, under the clavicle.

The right subclavian mises from the arteria mnominata, and proceeds under the clavicle to the axilla. The left subclavian arises from the arch of the aorta, and ascends under the left cla-vicle to the axilla. The subclavians in their course vicle to the axilia. The subclavians in their course give off the internal mammary, the cervical, the ver-tebral, and the superior intercostal arteries.

SUBCLAVIAN VEIN. This receives the brood from the veins of the arm, and runs into the vena cava superior. SUBCLA VIUS. From sub, under, and claviculu, the channel bone: as being situated under the clavicle, or channel bone.) Subclavianus. of Dumas. A muscle, situated on the anterior part of the monax, which puts the clavicle downwards and forwards. It arises tendinous from the cartilage that joins the first rib to the sternum, is inserted after be coming fleshy into the inferior part of the clavicle. which it occupies from within half an inch of the sternum as far outwards as to its connexion, by a ligament, with the coracoid process of the scapula.

SUBCRURÆUS. A name of two little muscular slips sometimes found under the cruræus; they are in-

serted into the capsular learnest which they pull up. SUBCUTANEOUS. (Subcutaneus; from sub, under, and cutus, the skin. Under the skin: a name given to some herves, vessels, glands, &c. which are very superficial.

SUBSTRACEOUS GLANDS. Glandule subcutance. These are schaceous glands lying under the skin, which

These are senated spanns ying times the same when they perforate by their excretory duels.

SUBCUTA NEUS See Plantysma myoides.

SUBTAC Coak See quaescas schore.

SUBTAC Coak See quaescas schore.

SUBTAC ACID. Advances schore area. This acid was obserted by Brugnatell from cork, and afterward more fully examined by Bouillon la Grange. To pro-

the heat as long as any red fumes arise. As the distillation advances, a yellow matter, like wax, appears on the surface of the hound in the retort. While its contents Continue hot, pour them into a glass vessel, placed on a sand heat, and keep them continually stirring with a glass rod; by which means the liquid will gradually grow thicker. As soon as white penetrating vapours appear, let it be removed from the sand heat, and kept stirring till cold. Thus an orange-coloured mass will be obtained, of the consistence of honey, of a strong sharp smell while hot, and a peculiar aromatic smell when cold. On this, pour twice its weight of boiling water, apply heat till it liquefies, and filter. As the filtered liquor cools, it deposites a powdery sediment, and acquires a tim pelhicle. Separate the sediment by filtration, and evaporate the fluid nearly to dryness. The mass thus obtained is the suberic acid, which may be purified by saturating with an alkali, and precipitating by an acid, or by boiling it with charcoal

Chevreuil obtained the suberic acid by mere digestion of the nitric acid on the grated cork, without distillation, and purified it by washing with cold water. 12 parts of cork may be made to yield one of acid. When pure, it is white and pulverulent, having a feeble taste, and little action on litraus. It is soluble in 80 parts of water at 55% P. and m. 38 parts at 1400. It is much more soluble in alkohol, from which water throwadown. a portion of the suberic acid. It occasions a white precipitate when poured into acetate of lead, nitrates precipitate when poured into acetate of lead, nitrates of lead, mercury, and silver, muriate of tin, and protosulplate of iron. It alloms no precipitate with solutions of copper or zinc. The subcrates of potassa, soda, and ammonia are very soluble. The two latter may be readily crystallized. Those of barytes, lime, magnesia, and alumina, are of sparing solubility.

Staramache Stara. (From subleme, tolitiup.) The

pendulous substance which floats in the middle of the

SUBLIMATE. See Hydrargyri ozymurias

Sublemate corroscee. See Hudrargpreoxymurias. SUBLIMATION. (Sublemato; from sublema to raise or sublime.) A process by which volatile substances are raised by heat, and again condensed in a solid form. This chemical process differs from evaporation only in being confined to solid substances. It is usually performed either for the purpose of purifying certain substances, and disengaging them from extraneous matters; or else to reduce into vapour, and conheous matters; or easy to remember the vapuar, and con-bine, under that form, principles which would have united with greater difficulty if they had not been brought to that state of extreme division. As all fluids are volatile by heat, and consequently capable of being separated, in most cases, from fixed

matters, so various solid bodies are subjected to a suni-Fluids are said to distil, and solids to subline, though sometimes both are obtained in one and the same operation. If the subliming matter concretes into a solid, hard mass, it is commonly called a sublimate; if into a powdery form, flowers.

The principal subjects of this operation are, volatile

alkaline salts; neutral salts, composed of volatile alkali and acids, as sal ammoniae: the salt of amber, and flowers of benzoin, mercurial preparations, and sulphur. Bodies of themselves not volatile are frequently made to sublime by the mixture of volatile ones; thus iron is carried over by sal ammoniae in the preparation of the flores martiales, or ferrum ammoniatum.

The fumes of solid bodies in close vessels rise but a

little way, and adhere to that part of the vessel where

SI BLI MIS. See Fieror brevis digitorum pedis, and Flower sublimes perforatus.
SUBLINGUAL. (Sublingualis; from sub, under,

and levyna, the tongue.) A name given to parts im-

SUBLINGUAL GLANDS. Glandulæ sublinguales, vel Schulwick, Miaris. Grandists sublinguales, vel Rarthelemana, vel Ricaniana. The glands which are situated under the tongue, and secrete saliva. Their excretory duets are called Rivinian from their dis-

SUBLUXA'TIO. A sprain. SUBLUANTIO. A spinin.
SUBMERSION. (Submersio; from sub, under, and mergo, to sink.) Drowning. A variety of the apoplexia suffocata. Sauvages terms it asphyxia im-

SUBMERSUS. Plunged under water: applied to leaves which are naturally under water, while others of the plants are above, as in Rammondus aquatilis.

SUBMURIAS HYDRARGYRI. See Hydrargyri sub-

SUBMURIATE. Submurias. An imperfect mu-

SUBORBITA'RIUS. The suborbitary nerve; a branch of the fifth pair.

Subphosphuretted hydrogen. See Phosphorus. SUBROTUNDUS. Roundish: applied to several

parts of plants. The leaf of the Pyrola is subrotund. SUBSALT. A salt having an excess of base beyond what is requisite for saturating the acid, as supersalt is one with an excess of the acid. potassa is the neutral compound of snij naric acid and potassa; subsulpnate of potassa, a compound of the same ingredients, in which there is an excess of pase; supersulpmate of potassa, a compound of the same acid and the same base, in which there is an excess of

SUBSCAPULA'RIS. (From sub, under, and sca-ula, the shoulder-blade.) Sous-scapula-trochruca, snoulder-blade.) Sous-scapula-trochinen, Infra-scapularis. The name of of Dumas. cle sufficiently indicates its situation. It is composed of many fasciculi of tendinous and fleshy fibres, the marks of watch we see impunted on the under surface of the control of the c of the scapula. These fasciculi, which arise from all the basias of that bone internally, and likewise from its superior, as well as from one half of its inferior costa, unite to form a considerable flat tendoa which adheres to the capsular ligament, and is inserted into the upper part of the less tuberosity at the head of the os humeri.

The principal use of this muscle is to roll the arm It likewise se ves to bring it close to the inwards. ribs; and, from its adhesio i to the capsular ligament,

it prevents that membrane from being purched. SUBSULTUS. (From subsulta, to leap.) Sub-sultus tendinum. Weak convulsive motions or twitchings of the tendons, mostly of the hands, generally observed in the extreme stages of putrid fever

SUBU BERES. (from sub, under, and ubera, the breasts.) This term hath been used by some writers for those infants who yet sick, in disauction from those Who are weaned, and then are called coah res.

SUBULATUS. Subulate. Awl snaped: applied in botany to leaves, receptacless, &c. which are tapering &com a thick base to a point like an awl; as the leaf of the Suisola kale, and receptacl of the Scalinosa atropurparea.

The rob of any thuit. Succa'go.

SUCCEDA'NEUM. A medicine substituted for another.

SCECENTURIA'TI MUSCULI. The pyramidal muscles

SUCCENTURIATI RENES. Two glands lying above the kidneys.

Scient scorbutter. The juice of English scurvy-

SUCCINATE. Succinas. A salt formed by the combination of the acid of amber, or succinic acid, with a salitiable base, succenate of potassa, succenate supper, &c.

SUCCINGENS MEMBRANA. The diaphragm. SUCCINIC. (Succences; from Succenam, umber.)

SUCCINIC. Of or belonging to amber.

SUCCINIC ACID. Acidum succinicum. Sil succini. It has long been known that amber, when exposed to distillation, affords a crystallized substance, which subfines into the upper part of the vessel. Before its na-ture was understood it was called salt of umber; but It is now known to be a peculiar acid, as Boyle first discovered. The crystals are at first contaminated with a little oil, which gives them a brownish colour but they may be purified by solution and crystallization, repeated as often as necessary, when they will become transparent and shining. Port recommends to put on the filter, through which the solution is passed. a little cotton previously wetted with oil of amber. Their figure is that of a triangular prism. Their taste is acid, and they redden the blue colour of litmus, but not that of violets. They are soluble in less than two parts of boiling alkohol, in two parts of boiling water, and in twenty-five of cold water.

Planche, of Parls, observes, that a considerable quantity might be collected in making amber variesh, as it sublanes while the amber is inclining for this purpose, and is wasted.

Several processes have been proposed for purifying this acad that of Richael appears to be the best. The acid being it solved in hot water, and phered, is to be saturated with poiassa or soda, and beited with charcoal, which absorbs the only matter. The solution being placed, intrate of lead is added; whence is sults an insolube saccmate of lead, from which, by digesthen in the equivalent quantity of sulphurie acid, pure succine acid is separated. Nitrate or marrate of ba-rytes will show whether any sulphuric acid contains mixed with the succine sourton; and if so, it may be withdrawn by digesting the liquid with a little more successes of lead. Pure successes and may be obtained by evaporation, in white translation prisma it cayspowerfully functure of turnsole. He at melts, and par-tually decomposes succease acid. Air has no effect upon it. It is soluble in both water and alkohol, and much more so when they are heated.

SU CCINUM. (Su. cinum, t. n.; from succus, juice: because it was thought to exude from a tree.)

Ambergais is so called by SUCCINUM CINEREUM. some authors See Ambergres.
Secritor Griscon. Ambergis is sometimes so

called. See Ambergris.

SUCCINUM OLEUM. See Oleum succini.

SUCCINUM PREPARATUM. Prepared amber.

SUCCISA. (From succido, to cut: so named from its being indented, and, as it were, cut in pieces.) Applied to a species of the genus Scabiosa.

SUCCORY. See Cichorium. Se coubus. See Incubus.

SUCCULENS. See Incubus.
SUCCULENS. Succulent, juicy, rich. Applied to

fruits, pods, soils, &c. SUCCULENTÆ. The name of an order of Lin name's Fragments of a Natural Method, containing those which have fleshy and succulent leaves; a Csac-

tus, Sedum, Sempervivum, &c. SUCCULENTES. Juicy: full of juice. Applied

to pods, leaves, &c. SUCCUS. Juice.

SUCCES COCHLEARIE COMPOSITUS. A WARM apement and dimetic, mostly exmitted in the cure of diseases of the skin, arising from scurvy.

Succes executaces. Just of laserwort. Secres gastrices. See Gustre june.

Secces HELIOTROPH. See Croton tenctorium

Success indicus purgans. Gamboge.

SUCCESS LAGUAGUES, FORGANS, Grandings, SUCCESS LAGUAGUES, See Clapsychizar gladra, SULDA MINA. (Sudamen, cass. B.; from sudor, sweat.) Hodron, Boa. Vesicles resembling muleiseeds, in form and magnitude, which appear suddenly, witnout fever, especially in the summer-time, after much labour and sweating.

SUDATIO From sudor, sweat.) A sweating.

Se Ephidros

SUDATO RIUM. (From sudo, to sweat.) A stew or sweating nouse.

SUDOR. Sweat or perspiration.

SCHOOL ANGLEUS, Hydromosus: Gargeatia. The sweating sickness of Lagland, and endenne fever. Dr. Cullen thinks it a species of typhus. This usor der is thus named from its first appearing in this island, and acquires the title of sudor, from the patient suddenly bearing out into a profuse sweat, which torms the great character of the disease.
SUDORI FIC. (Subscribens: from s

( \ idorificus : from sudor, sweat, and for o, to make. A syn myme of diaphoretic. See

SUFFIME NTUM. (From suffimen, a perfume)

SUFFUTUS. A perfume. SUFFUCATIO. Suffication.

SUPPOCATIO STRIDELA. The croup.
SUPPOCATIO STRIDELA. Under shrubby plants Such ligneous or somewhat woody vegetables that are of a nature, in some degree, between that of the shrubby, and the herbaccous; as thyme, sage, hys-

SUFFUMIGATION. SUFFUMIGATION. (Suffumigatio; from sub, under, and fumigo, to smoke.) The burning odorous

substances to remove an evil smell, or destroy mi-

8sma.
St'FFUSIO. (From suffundo, to pour down: so called because the ancients supposed the opacity proceeded from something running under the crystalline

1. A cataract.
2. An extravasation of some humour, as the blood: thus we say, a suffusion of blood in the eye, when it is what is vulgarly called bloodshot.

Is what is vulgarly eithed bloodshot.

SUFFIED AT RIGINOSA. A Jaundice.

SUGAR. See Saccharum.

Sugar of lead. See Plumbracetas.

Sugar of milk. A substance produced from whey, which, if not sour, contains a saline substance, to which the name has been given.

SUGILLATION. (Sugalatto; from sugallo, to carries a Agent, mark made between the superior of the superior of the sugar suga

stain , A bruise. A spot or mark made by a leech or cupping-glass.

SULCATUS. Furrowed: applied to stems, leaves, seeds, &c. of plants; as the seeds of the Scandic odorate, and australes.
SULCUS. A groove or furrow; generally applied

to the bones

SULPHAS. (Sulphas, atis. m.; from sulphur, rimstone.) A sulphate or sait formed by the union brimstone.) of the sulphuric acid with a sa inable base.

Eergman. Sal ammontacem secretion, of Glauber. Vitrolum ammontacule. This salt has been found native in the neighbourhood of some volcames. It is esteemed digretic and deobstruent, and exhibited in the same diseases as the muciale of ammonia.

SULPHAS CUPRL. See Capresulphus. Sulphas FERRI. See Ferri sulphus.

SULPHAS HYDRAROYRI. See Hydrargyrus vitrio-

nus. Selphas magnesiæ. See Magnesiæ sulphas. Selphas potassæ. See Polassæ sulphas. Selphas quining. See Cinchonna.

Sulphas guinne. See Sinda sulphas.
Selphas sode. See Sinda sulphas.
Selphas ainci. See Sinda sulphas.
SULPHATE. See Sulphas.
SULPHATE. See Sulphas.
Sulphas adminie quantity of the sulphurous acid with a salurine base; as sulphate of potassa, ammorized selphas has a sulphate of potassa, ammorized selphas has sulphate of potassa, ammorized selephas has sulphate of potassa.

acal solph to Sec.
SULPHOVINIC ACID. Sulphovinous acid. The name given by Voget to an acid, or a class of acids, which may be obtained by digesting atkohol and sul phuric acid together by heat. It seems probable that this acid is mercry the hyposulphuric, combined with a peculiar oily matter.—(ve's Chen. Fret. 8tt LPHUR. (Sulphur, arys. n.: from sal or sul,

SC LPHCR. (Sulphar, arcs. n.; from sal or sul, and zep, fire so named from its great combustibility.) Alrea; Alcaberth; Appater; Appelerue; Apatha; Appater; Spulla; Chibur; Chibur; Cibur. Sulphur, which is also known by the name of binnistone, is the only simple combustible substance where name offers pure and in abundance. It was the first known of all. It is found in the centh, and exists extendity in depositions, it sublimed incrustrations, and on the surface of certain veters arrangilly marchining change. certain waters, principally near burning voicances It is found combined with many metals. It exists in vegetable substances, and has lately been discovered in the abunea of eggs.

the abunea of eggs.

Sulphur, in the mineral kingdom, is either in a loose powder, or compact; and then either detached or in veins. It is found in the greatest plenty in the neighbourhood of volcances, or pseudo-volcances, whether modern or extinct, as at Solfatara, &c. and is deposited as a crust on stones contiguous to them, either crystallaced or amorphous. It is frequently met with in mineral waters, and in caverns adjacent to volcations to the property of the property noes; sometimes also in coal mines. It is found in combination with most of the metals. When united to iron, it forms the mineral called martial pyrites, or iran pyretes. All the ores known by the name of pyretes, of which there are a vast variety, are combinations of sulphur with different metals; and hence the names of copper, tin, arsenical, &c. pyrites. It exists likewise in combination with alumine and lime It then constitutes different kinds of schistus, or alum

Method of obtaining Sulphur .- A prodigious quantity of sulphur is obtained from Solfatara, in Italy.

This volcanic country every where exhibits marks of the agency of subterraneous fires; almost all the ground is bare and white; and is every where sensibly wa mer than the atmosphere, in the greatest heat of summer; so that the fect of persons walking there are burnt through their shoes. It is impossible not to observe the sulphur, for a sulphurous vapour which rises through different apertures is every where perceptible, and gives reason to believe that there is a subterraneous fire underneath, from which that vapour pro-

From pyrites, sulphur is extracted in the large way

the following process

Pyrites is broken into small pieces, and put into large earthen tubes, which are exposed to the heat of a furnace. A square vessel of cast iron, containing water, is connected as a receiver with the tube in the furnace. The action of the fire proceeds, and the sulphur, being thus meited, is gradually accumulated on the water in the receiver. It is then removed from this receiver, the receiver. It is then removed from this receiver, and meited in large iron ladies; in consequence of which, the earthy pairs with which it was contaminated are made to subside to the bottom of the ladle, leaving the purified sulphur above. It is then again melted, and suffered to cool gradually, in order to free it from the rest of the impurities. It is then telerably pane, and constitutes the sulphur we meet with, in large masses or lumps, in the market

In order to form it into rolls, it is again melted, and poured into cylindrical wooden monds; in these it takes the form in which we usually see it in com-

merce, as roll sulphur.

Flowers of sulphur, as they are called, are formed by sublinging purified sulphur with a gentle neat, in close rooms, where the sublimed sulphur is codected, though the article met with in general, under that name, is nothing but sulphur finely powdered.

Method of purifying sulptur. Page one part of flowers of sulptur, bed it to twenty parts of estilled water, in a cases vessel, for about a mouter of ma-hour; let the sulptur subside, decant the waves and then wash the sulphur repeatedly in distilled water. Having done this, pour over it three parts of pure infro-municate and, diluted with one part of distilled water, boil it again in a glass vessel for about a qua-ter of an hour, decant the and, and wash the solphur in distilled water of an ellow passes tasteless, or fill it does not change the blue colour of funture of cab-bage or fitnus. The supplur, thus carefully treated, is press adultur, in for philosophical experiments.

thysical properties.—" allian is a consessible, dry, and exceedingly brittle body, of a pale lemon-yellow colour. Its specime gravity is 1550. It is destitute of odour, except when rubbed or heated. a peculiar faint taste. It frequently crystallizes in ena pecunia faint case. It requestly examines me the or truncated actanedra, or in needles. If a piece of sulphur, of a considerable size, be very gently heated, as, for example, by holding it in the hand and squeezing it finnly, it breaks to pieces with a cacking noise. It is a non-conductor of electricity, and hence noise. It is a non-conductor of electricity, and hence it hecomes electric by fixtom. When heated, it first softens before it melts, and its fusion commences at 280° Fahr; it is canable of subliming at a lower temperature; and takes no at 560°. In the beginning of fusion it is very fluid, but by continuing the heat it covers found, and its colour charges to a children or a contraction. brown. II. in this condition, it be poured into water, it remains as soft as wax, and yields to any impression. In time, however, it hardens again, and recovers its

When a roll of sulphur is suddenly seized in a warm hand, it crackles, and sometimes tails in pieces. This is owing to the unequal action of heat on a body which is owing to the integral action of near on a body which conducts that power slowly, and which has little cohe-sion. If a mass of sulphur be melted in a cracible, and after the surface begins to concrete, if the liquid matter below he allowed to ran out, fine acicmar crystals of sulphur will be obtained.

Sulphur is insoluble in water; but in small quantity in alkohel and ether, and more largely in oil.

Sulphur combines with oxygen in four definite proportious, constituting an interesting series of acids. See Sulphuric acid.

Sulphur combines readily with chlorine. This compound was first made by Dr. Thomson, who passed theorine gas through fewers of sulphur. It may be made more expeditiously by heating sulphur in a

retort containing chlorine. The suppur and emorine unite, and form a thord substance, which is volatile be low 2007 P., and desuls into the cold part of the retort. This substance, seen by reflected light, appears of a red colour, but is yellowish given when seen by trans-mitted light. It smokes when exposed to air, and has an odour somewhat resembling that of seaweed, but much stronger: it affects the eyes like the smoke of peat. Its taste is acid, hot, and bitter. Its sp. gr

It does not redden perfectly dry paper tinged with litmus; when it is agitated in contact with water, the water becomes cloudy from the appearance of sulphur, and strongly acid, and it is found to contain oil of

Indide of sulphur is easily formed by mixing the two ingredients in a glass tube, and exposing them to such has a radiated structure like that of sulphure of anti-mony. When distilled with water, iodine is disen-

Sulphur and hydrogen combine. Their union may be effected, by causing sulphur to sublime in dry hydrogen in a retort. There is no change of volume; but only a part of the bydrogen can be united with the sul-

phor in this mode of operating.

The usual way of preparing sulphurctted hydrogen is to pour a dilute sulphuric or mariatic acid on the black sulphuret of iron or antimony in a retort. For occurate experiments it should be collected over mercury. It takes fire when a lighted taper is brought in contact with it, and burns with a pale blue flame, depositing sulphur. Its smell is extremely fielid, resembling that of rotten eggs. Its taste is sour. It reddens vegetable blues. It is absorbable by water, which takes up more than an equal volume of the gas. Its sp. gr., according to Gay Lussac and Thenard, is to that of air as 1, 1912 to 1.0.

most deleterious to animal life. A greenfinch, plunged into air, which contains only 1-1500th of its volume, perishes instantly. A dog of middle size is destroyed in air that contains 1-800h; and a horse would full a victim to an atmosphere containing 1-2500h.

Dr. Chaussier proves, that to kill an animal, it is suf-

ficient to make the sulphuretted hydrogen gas act on the surface of its body, when it is absorbed by the inhalants. He took a bladder having a stop cock at one end, and at the other an opening, into which he introduced the body of a rabbit, leaving its head outside, and securing the bladder air-tight round the neck by adhe-He then sucked the air out of the bladsive plaster. der, and replaced it by sulphuretted hydrogen gas. young animal in these circumstances usually perishes in 15 or 20 minutes. Old rabbits resist the poison much

When potassium or sodium is heated, merely to fusion, in contact with sulphuretted hydrogen, it becomes luminous, and burns with extrication of hydrogen, while a metallic sulphuret remains, combined with sulphuretted hydrogen, or a sulphuretted hydrosul-

phuret.

Sulphuretted hydrogen combines with an equal volume of ammonia; and unites to alkelies and oxides, so that it has all the characters of an acid. These com-

pounds are called hydrosulphurets.

All the hydrosulphyrects, soluble in water, have an acrid and bitter taste, and, when in the liquid state, the odour of rotten eggs. All those which are insoluble are, on the contrary, insipid, and without smell. are only two coloured hydrosulphurets, that of iron, which is black, and of antimony, which is chestnutbrown

All the hydrosulphurets are decomposed by the action of fire. That of magnesia is transformed into sulphuretted hydrogen and oxide of magnesium; those potassa and soda, into sulphuretted hydrogen, hydrogen, and sulphuretted alkalies; those of manganese zinc, iron, tin, and antimony, into water and metallic

When we put in contact with the air, at the ordinary temperature, an aqueous solution of a hydrosulphuret, there results, in the space of some days, 1st, water, and a sulphuretted hydrosulphuret, which is yellow and soluble; 2d, water, and a colourless hydrosulphite, the quantity of sulphuretted hydrogen is inversely as which, if its base be potassa, soda, or ammonia, remains in solution in the water; but which falls down compounds have been called, in general, sulphuretted

retort containing chlorine. The sulphur and chlorine, in account crystals, if its base be barytes, strontia, of

The saids in general combine with the base of the The acids in general commite whit the base of the hydrosulphurets, and disengage sulphuretted hydrogen with a basely cirry secure, without any deposition of sulphur, unless the acid be in excess, and be capable, like the native and attrous acid, of yielding a portion of its oxygen to the hydrogen of the sulphuretted hy-

The hydrosulphurets of potassa, soda, ammonia, lime, and magnesia, are prepared directly, by transmitting an excess of sulphuretted hydrogen gas through

these bases, disolved or diffused in water

The composition of the hydrosulphurets is such, that the hydrogen of the sulphuretted hydrogen is to the oxygen of the oxide in the same ratio as in water. Hence, when we calcine the hydrosulphurets of iron,

the the convert them into water and sulphurets.

Higheosulphuret of petassa crystallizes in four-sided prisms, terminated by rour sided pyramids. Its taste is acted and bitser. Exposed to the air, it attends his midity, absorbs oxygen, passes to the state of a sulpharetted hydrosulphinet, and finally to that of a hydrosulphite. It is extremely soluble in water. Its solution in this liquid occasions a perceptible refrigeration. Subjected to heat, it evolves much sulphuretted hydrogen, and the hydrosulphuret passes to the state of a sub-

Hudrosulpheret of soda crystallizes with more diffi-

culty than the preceding.

Hurrosulphuret of ammonia is obtained by the direct union of the two gaseous constituents in a glass balloon, at a low temperature. As soon as the gases mingle, transparent white or yellowish crystals are formed. When a mere solution of this hydrosulphuret is wished for medicine or analysis, we pass a current of sulphuretted hydrogen through aqueous ammonia till satu-

The pure hydrosulphuret is white, transparent, and crystallized in needles or fine plates. It is very vola-tile. Hence, at ordinary temperatures, it gradually sublimes into the upper part of the phials in which we preserve it. We may also by the same means separate it from the yellow subpuretted hydrosubpuret, with which it is occasionally mixed. When exposed to the crystallized in needles or fine plates. It is very volaair, 11 absorbs oxygen, passes to the state of a sulphuretied hydrosulphuret, and becomes yellow. When it contains an excess of ammonia, it dissolves speedily in water, with the production of a very considerable cold.

Sub-hydrosulphuret of barytes is prepared by dissolving in five or six parts of boiling water, the sulphuret of the earth obtained by igniting the sulphate with charcoal. The solution being filtered while hot, will deposite, on cooling, a multitude of crystals, which must drained, and speedily dried by pressure between the lds of blotting paper. It crystallizes in white scaly folds of bletting paper. plates. It is much more soluble in hot than in cold Its solution is colourless, and capable of absorbing, at the ordinary temperature, a very large quantity of sulphuretted hydrogen.

Su'chydrosulphuret of strontites crystallizes in the same manner as the preceding. The crystals obtained in the same way must be dissolved in water; and the solution being exposed to a stream of sulphuretted hydrogen, and then concentrated by evaporation in a retort, will afford, on cooling, crystals of pure sub-hydro-

Hydrosulphurets of lime and magnesia have been btained only in aqueous solutions. The metallic hyobtained only in aqueous solutions. drosulphurets of any practical importance are treated

of under their respective metals.

When we expose sulphur to the action of a solution of a hydrosulphuret, saturated with sulphuretted hydrogen, as unch more sulphuretted hydrogen is evolved as the temperature is more elevated. But when the solutions tion of hydrosulphuret, instead of being saturated, has a sufficient excess of alkali, it evolves no perceptible quantity of sulphuretted hydrogen, even at a boiling quality of suphuretted rydrogen, even at a boung heat; although it discoves as much sulphur as in its state of saturation. It hence follows; 1st, That sulphur-retted hydrogen, sulphur, and the altalies, have the property of forming very variable triple combinations; 2d. That all these combinations contain less sulphuretted hydrogen than the hydrosulphurets; and, 3d, That hydrosulphurets; but the name of hydrogenated sulphu-! rets is more particularly given to those combinations which are saturated with sulphur at a high temperature, because, by treating them with acids, we precipi-tate a peculiar compound of sulphur and hydrogen, of

which we shall now treat.

This compound of hydrogen and sulphur; the proportions of the elements of which have not yet been accurately ascertained, is also called hydruret of sulphur. It is formed by putting flowers of sulphur in contact with nascent sulphuretted hydrogen. With this view, we take an aqueous solution of the hydrogenated sulphuret of potassa, and pour it gradually into liquid muriatic acid, which seizes the potassa, and forms a soluble salt, while the sulphur and sulphuretted hydrogen unite, tall down together, collecting by degrees at the bottom of the vessel, as a dense oil does in water. To preserve this hydruret of sulphur, we must fill with To preserve our signature of support, we must in with it a phial having a ground stopper, cork it, and keep it inverted in a cool place. We may consider this sub-stance either as a combination of sulpitur and hydrogen, or of sulphur and sulphuretted hydrogen; but its properties, and the mode of obtaining it, render the lat-ter the more probable opinion. The proportion of the constituents is not known.

The most interesting of the hydrogenaicd sulphurets, is that of aumnouna. It was discovered by the Hon Robert Boyle, and called his furning liquor. To prepare it, we take one part of muriate of ammonia and of pulverized quicklime, and half a part of flowers of sulphur. After mixing them intimately, we introduce the mixture into an earthen or glass refort, taking care that none of it remains in the nick. A dry cooled receiver is connected to the retort by means of a long adopter tube. The heat must be urged slowly almost adopter time. The neat must be argue sowny minosis to redness. A yellowish figure condenses in the receiver, which is to be put into a phial with its own weight of flowers of sulphin; and agutated with its seven or crept minutes. The greater part of the sulphin is dissolved, the colour of the mixture deepens remarkably, and becomes thick, constituting the hydrogenated

sulphuret.

The distilled liquor diffuses, for a long time, dense The distilled liquor diffuses, for a long time, dense vapour in a jar full of oxygen or common air, but scarcely any in azote or hydrogen; and the dryness or hummility of the gases makes no difference in the effects. It is probably owing to the oxygen converting the liquor into a hydrogenated sulphuret, or perhaps to the state of sulphuret, the distribution of the state of sulphuret and the vapours appear.

Hydrogenated sulphurets are frequently talled by-

droguretted sulphurets

Sulphur combines with carbon, forming an interesting compound, to which the name of sulphuret of ear-bon is sometimes given."

Sulphur has been long an esteemed article of the Materia Medica; it stimulates the system, loosens the belly, and promotes the insensible perspiration. It pervades the whole habit, and manifestly transpires through the pores of the skin, as appears from the sulphurous smell of persons who have taken it, and from silver heing stained in their pockets of a blackish colour. In the stomach it is probably combined with hydrogen. It is a celebrated remedy against cutaneous d. cases, particularly psora, both given internally and applied externally. It has likewise been recommended in theumane pains, flying gout, rickets, atrophy, coughs, asthmas, and other disorders of the breast and lungs, and particularly catarrhs of the chronic kind. also in selica pictonum, worm cases, and to lessen, salivation.

In hamorrhoidal affections it is almost specific; but in most of these cases it is advantageously combined with some cooling purgative, especially supertartrate

of potassa.

The preparations of sulphur directed to be used by the London and Edinburgh Colleges, are the Sulphur lotum, Sulphur pra-cipitatum, and Sulphur sublimatum.

Sethert precipation, and supput such action of supput precipation. Sethert and supput supput and ratum automore. This preparation of automory appears to have rendered that called hierarcs unnered unnecessary. It is a yellow hydrosulphuret of automory, and therefore called hydrosulphuret of automory, and therefore called hydrosulphuret of automory, and therefore called hydrosulphuret of automory, and given in diseases of the skin and glands; and joined with calomel, it is one of the most power ful and penetrating alteratives we are in possesgion of.

SULPHUR AURATUM ANTIMONII. See Sulphur anti monii procepitatum.

monii praecipitatium.

SEPHER LOTEM. Washed sulphur; Flores sulphurus loti. Take of subinned sulphur, a pound Pour on boiling water so that the acid, if there be any, may be entirely washed away; then dry it. The dose is from half a drachm to two drachms.

SULPHUR PRECIPITATUM. Lac sulphuris. Take of sublimed sulphur, a pound; fresh lime, two pounds; water, four galious: boil the sulphur and lime together in the water, then strain the solution through paper, and drop in it as much muriatic acid as may be necessary to precipitate the sulphur; lastly, wash this by repeated effusions of water until it is tasteless. This preparation is mostly preferred to the flowers of sulpreparation is mostly preferred to the flowers of sul-phur, in consequence of its being freed from its im-purities. The dose is from half a drachm to three

Sulphur, precipitated. See Salphur præcipitatum. Stirmen stiblimatum. Sublimed sulphur. Se

SULPHUR VIVUM. Native sulphur. Sulphur, washed. See Sulphur lotum. SULPHURWORT. See Peucedanum

Sulphurated hydrogen gas. See Hydrogen gas,

sulphuretted.
SULPHURE. See Sulphuret.
SULPHURE. See Sulphuret.
Sulphurecas acid. See Sulphurous acid.
Sulphuretted chyacic acid. See Sulphuroprussic

SULPHURETTED HYDROGEN. See Hydrogen,

sulphu-etted. SULPHURE TUM. Sulphuret. Sulphure. A com bination of sulphur with an alkali, earth, or metal.

SLEPHERETEN MMONE Hepar sulphures cola-tile. Beyle's or Begume's funing spirit. Sulphuret of ammonia is obtained in the form of a yellow funing or ammonia is contained in the form of a years, mining liquor, by the ammonia and sulphur uniting while in a state of gas during distillation. It excites the action of the absorbent system, and diminishes arterial action, and is given internally in diseases arising from the use of mercury, phthisis, diseases of the skin, and phleg-masia: externally it is prescribed in the form of bath in paralysis, contractura, psora, and other cutaneous

SULPHURETUM ANTIMONII PR ECIPITATUM. See An

timonii selphuretum procipitatum. Seleberretum calcis. Hepar calcis. Sulphuret It is principally used as a bath in various diseases of the skin.

SULPHURETUM HYDRARGYRI NIGRUM. See Hydrargyrı sulphuretum nigrum

SUIPHURETUM HYDRARGYRI RUBRUM. See Hydrargyri sulphuretum rubrum

SULPHURETUM POTASSÆ. See Potassæ sulphure-

SULPHURETUM SODE. A combination of soda and sulphur.

sulphur.

Stepheretum stibil nativem. Sulphuretum stibil nigrum; Antimorium crudum. Native sulphuret of autimeny. It is from this one that all our preparations of antimony are made. See Antimony.

SULPHURIC. Sulphuricus. Belonging to sulphur. Sulphuretum Action. Actions sulphureum. Oil of vitriol. Vitriolic acid. "When sulphur is heated to 1890 or 1890 m an open wessel, it melts, and soon afterward emits a bluish flame, visible in the dark, but which, in open daylight, has the appearance of a white furme. This flame has a suffocating smell, and has so little heat that it will not set fire to flax, or even has so little heat that it will not set fire to flax, or even gunpowder, so that in this way the sulphur may be en-tirely consumed out of it. If the heat be still augmented the sulphur boils, and suddenly bursts into a much more luminous flame, the same suffocating vapour still continuing to be emitted.

The sufficient vapour of sulphur is imbibed by water, with which it forms the fluid formerly called relatile vitralic, now sulphurous acid. If this fluid be exposed for a time to the air, it loses the sulphurous smell it had at first, and the acid becomes more fixed It is then the fluid which was formerly called the spirit of extend. Much of the water may be driven off by heat, and the dense acid which remains is the sulphuric heat, and the unreaded and of citreol; a name which was probably given to it from the hitle noise it makes when poured out, and the unctious feel it has when rubbed between the fingere, produced by its corroding 319 compound

The stone or mineral called martial pyrites, which consists for the most part of sulphur and from is found to be converted into the salt vulgruly called green cetriel, but more properly sulphate of iron, by exposure to an and mosture. In this natural process the pyrites breaks and tails in pieces; and if the change takes place rapidly, a considerable increase of temperature follows, which is semetimes sufficient to set the mass on fire. By conducting this operation in an accurate way, it is found that oxygen is absorbed. The sulphate is obtained by solution in water and subsequent evaporation; by which the crystals of the sait are separated from the earthy impurities, which were not

suspended in the water.

The surprience acid was formerly obtained in this corretty by distillation from sulphate of non, as it stall is in many parts abroad; the common green vitriol is made use of for this purpose, as it is to be met with at a low price, and the acid is most casily to be extracted from it. With respect to the operation itself, the fol-lowing particulars should be attended to: First, the viored most be calemed in an non-or carthen vessel, then these between the description of the control vessel, the all properties it will lose half its weight. This is done in order to deprive it of the greater part of the water which it has attracted two its crystals darm; the cry tallization, and which would otherwise in the cusuing distictiza-tion, greatly weaken the acid. Assoon as the calcina-tion is finished, the vitriol is to be put immediately, while it is warm, into a coaled earthen refort, which is to be fixed two thirds with it, so that the ingredients may have sufficient room upon being distended by the heat, and taus the bursting of the setort be prevented enclosed in brick work in a reverberatory furnace, and to stop up the neck of it till the distillation begin, to order to prevent the materials from attracting tresh hundry from the air. At the beginning of the distribution the retort must be opened, and a moderate fire is to be applied to it, in order to expel from the vitrosl ail that part of the phlegm which does not taste strongly of the acid, and which may be received in an open vessel placed under the retort. But as soon as there which has been previously poured a quantity of the acidious fluid which has come over, in the proportion of half a pound of it to twelve pounds of the calcined vitriol; when the receiver is to be secured with a proper luting. The fire is now to be raised by little and proper lating. The first slow to not assed by title and little to the most intense degree of heat, and the receiver cenefully covered with wet cloths, and, in winter pare, with snow or ice, as the acid rises in the foun of a thick white vapour, which towards the end of the operation becomes hot, and heats the receiver to a great degree. The fire must be centimed at this high pitch for several days, till no vapour issues from the retort, nor any drops are seen trickling down its sides. In the case of a great quantity of vitriol being distilled, Bernhardt has observed it to continue oeing distinct, bermarat has observed it to continue emitting vapours in this manner for the space of ten days. When the vessels are quite cold, the receiver must be opened carently, so that neme of the lating may fail into it; after which the third contained in it is to be poured in a boatle, and the air carefully excluded. The fluid that is thus obtained is the German sulphuric acid, of which Berahardt got sixty four pounds from six hundredweight of vitriol; and, on the other hand, when no water had been previously poured into the receiver, fifty-two pounds only of a dry concrete acid. This acid was immerly called glacial all of ritriol, and its consistence sowing to a mixture of salphurous acid, which occasions it to become solid at a moderate temperature.

It has been lately stated by Vogel, that when this furning acid is put into a glass retort, and distilled by a moderate heat into a receiver cooled with ice, the fuming portion comes over first, and may be obtained in a solid state by stopping the dismation in time. This has been supposed to constitute absolute sulpharie acid, or acid entirely void of water. It is in silky filaments, tough, difficult to cut, and somewhat like ashestos. Exposed to the air, it fumes strongly, and gradually evaporates. It does not act on the skin so rapidly as concentrated oil of vitriol. Up to 600 it continues solid, but at temperatures above this it becomes a

and destroying the skin, with which it forms a soapy | colourless vapour, which whitens on contact with air. Dropped into water in small quantities, it exertes a his-sing ners., as it it were red hot non-in-larger quansing nets , as it is were red hot non in larger quantities if productes a species of explosion. In its sand to be convertible into orannay suplante acid, by the addition of a fifth of water. It descrives surpline, and assumes a blue, green, or brown colour, according to the proportion of stupline dissolved. The specific assumes a one green or mover chain, according to the proportion of supplier dissolved. The spende gravity of the black funing sulphuric acid, prepared in large quantities from copperas, at Nordhausen, is Its constitution is not well ascertained.

The sulphune arid made in Great Bruzur is produced by the combustion of sulphur. There are three conditions requisite in this operation. Oxygen must be present to maintain the combistion; the vessei most he so close as to prevent the escape of the volutile matter which rises, and water must be present to imbane it. For these purposes, a mixture of eight parts of sidehur with one of nitre is placed in a proper vessel carbon d within a clamber of considerable size, burd on all sides with lead, and covered at bottom with a halley, stratum of water. The mixture being set on fine, well burn for a considerable time by virtue of the start; of oxygen which nitic aves out when heated, and the water imbibing the sulphurous vapour, becomes gladually more and more acid after repeated combustions, and the acid is afterward concentrated by distillation.

and the acta is afterward concentrated by distillation.

Such was the account usually given of this operadon, till Clement and Desonnes showed, in a very
interesting memoir, its total inadequacy to account for
the result. 100 parts of intre-judiciously managed,
will produce, with the requisite quantity of sulphus,
2000 parts of concentrated sulphum actd. Now these contain 1200 parts of ox; 2en, while the bundle I parts of nitre contain only 30% of oxygen; being not 1-30th part of what is afterward found in the resulting sulplaceic acid. But after the combastion of the sulphur, the nitre is converted into sulporate and bisulphate of potassa, which mingled residuary salts contain nearly potassi, which immediately sais contain healty as much oxygen as the nitre originally did. Hence the origin or the 1200 parts of the oxygen or the sodomate and is skill to be sought for. The following mechanist theory was first given by Clement and Desources. The burning sulphine or surphintous acid, telesia beom the nitre a poolion of its oxygen, ferms sulphinic acid, which unres with the potassa, and displaces a little fitteers and think citizens and the first early and the fitteers and think citizens and the fitteers are not the fitteers and think citizens and the citizens are not considered. acid, which unions with the potassia, and uspices at little nitrous and utritic acids in vapour. These vapours are decomposed by the sulphurous acid, into introus gas, or demovate of azote. This gas, naturally in-tic denser than air, and now expanded by the hear, suddenly rises to the roof of the chamber; and might be expect at to escape at the aperture there, which ma-nufacturers were always obliged to leave open, other-But the instant that nitrous gas comes in confact with atmospherical oxygen, nisous acid vapour is formed, which being a very heavy action body, into diately precipitates on the sulphurous flame, and a constant it into sulphuric acid; while itself resuming the state of nitrous gas, reascends for a new charge of oxygen, again to redescend, and transfer it to the flaming sul-Thus we see, that a small volume of mirous vapour, by its alternate metamorpheses into the states of oxide and acid, and its consequent interchanges, may be capable of acidifying a great quantity of

This beautiful theory received a modification from I'll beautiful these receiver a shad no action on subplument gas, to convert it into sulplument gas, to convert it into sulplume acid, unless water be present. With a small proportion of water, four volumes of sulphurous acid gas, and three of nitrous gas, are condensed into crystatine sociel, which is instantly decomposed by abundance of water; oil of vitriol is formed, and nirrous gas given on; which with contact of air becomes ni rous acid gas, as above described. The process con immes, according to above described. The process continues, according to the same perscribe of combination and decomposition, till the water at the bodom of the chamber is become strongly acid. It is first concentrated in large leaden pans, and afterward in class records heated in a andbath. Platmum absorber of el within pois of cast-iron of a corresponding scape and capacity, have been lately substituted in many in unitractorics for gloss, and have been found to save feel, and quiel on the process

concentration. The proper mode of burning the sulptur with the nitre, so as to preduce the greatest quantity or oil

of vitriol, is a problem, concerning which chemists hold a variety of opinions. Thenard describes the following as the best. Near one of the sides of the leaden chamber, about a foot above its bottom, an iron plate, furnished with an upright border, is placed horizontally over a furnes, whose chimper passes across. plate, furnished with an upright border, is placed horizontally over a furnace, whose chimney passes across, under the bottom of the chamber, without having any connexion with it. On this plate, which is enclosed in a little chamber, the mixture of sulphur and nitre is laid. The whole being shut up, and the bottom of the large chamber covered with water, a gentle fire is kindled in the furnace. The sulphur soon takes fire, and gives birth to the products described. When the combustion is finished, which is seen through a little pane adapted to the trap-door of the chamber, this is conceded the sulphate of potasses is withdrawn, and is opened, the sulphate of potassa is withdrawn, and is replaced by a mixture of sulphur and nitre. The air in the great chamber is meanwhile renewed by opening its lateral door, and a valve in its opposite side. Then, after closing these openings, the furnace is lighted anew. Successive mixtures are thus burned till the anew. Successive mixtures are thus burned till the acid acquires a specific gravity of about 1.399, taking care never to put at once on the plate more sulphur than the air of the chamber can acidify. The acid is then withdrawn by stop-cocks, and concentrated. The following details are extracted from a paper on sulphuric acid, which Dr. Ure published in the fourth volume of the Journal of Science and the Arts.

volume of the Journal of Science and the Arts.

"The best commercial suphuric acid that I have been able to meet with," says he, "contains from one-half to three quarters of a part in the hundred, of solid saline matter, foreign to its nature. These fractional parts consist of sulphate of potassa and lead, in the proportion of four of the former to one of the latter. It is, I believe, difficult to manufacture it directly, by the usual methods, of a purer quality. The ordinary science of saline matter. Even more is occasionally introduced, by the employment of nitre, to remove the brown colour given to the acid by carbonaceous matter. The amount of these adulterations, whether accidental or fraudulent, may be readily determined by evaporating, in a small capsule of porcelain, or rather platinum, a in a small capsule of porcelain, or rather platinum, a definite weight of the acid. The platinum cup placed on the red cinders of a common fire, will give an exact result in five minutes. If more than five grains of matter remain from five hundred of acid, we may pronounce it sophisticated.

pronounce it sophisticated.

Distillation is the mode by which pure oil of vitriol is obtained. This process is described in chemical treatises as both difficult and hazardous; but since adopting the following plan, I have found it perfectly safe and convenient. I take a plain glass retort, capable of holding from two to four quarts of water, and put into it about a put-measure of the sulphuric acid, (and a few fragments of glass.) connecting the retort with a large globular receiver, by means of a glass. (and a few fragments of glass.) connecting the retort with a large globular receiver, by means of a glass lube four feet long, and from one to two inches in diameter. The tube fits very loosely at both ends. The retort is placed over a charcoal fire, and the flame is made to play gently on its bottom. When the acid begins to boil smartly, sudden explosions of dense vapour rush forth from time to time, which would infallibly break small vessels. Here, however, these expansions are safely permitted, by the large capacity of the retort and receiver, as well as by the easy communication with the air at both ends of the adopter tube. Should the retort, indeed, be exposed to a great intensity of flame, the vapour will no doubt be genetions. Similar the retort, indeed, be exposed to agreed the intensity of flame, the vapour will no doubt be generated with incoercible rapidity, and break the apparatus. But this accident can proceed only from gross imprudence. It resembles in suddenness, the explosion of gunpowder, and illustrates admirably Dr. Black's obgunpowder, and illustrates admirably Dr. Black's ob-servation, that, but for the great latent heat of steam, a mass of water, powerfully heated, would explode on reaching the boiling temperature. I have ascertained, that the specific caloric of the vapour of sulphuric acid is very small, and hence the danger to which rash operators may be exposed during its distillation. Hence, also, it is unnecessary to surround the receiver Heñoc, also, it is unnecessary to surround the receiver with cold water, as when alkohol and most other liquids are distilled. Indeed, the application of cold to the bottom of the receiver generally causes it, in the present operation, to crack. By the above method, I have made the concentrated oil of vitriol flow over in a continuous slender stream, without the globe between the property of the continuous slender stream, without the globe between the concentrated oil of vitriol flow over in a continuous slender stream, without the globe between the continuous slender stream. coming sensibly hot

I have frequently boiled the distilled acid ull only I have frequently boiled the distilled acid till only one-half remain in the retort; yet at the temperature of 60° Fahrenheit, I have never found the specific gravity of acid so concentrated, to exceed 1.8455. It is, I believe, more exactly 1.8452. The number 1.850, which it has been the fashion to assign for the density of pure oil of vitriol, is undoubtedly very erroneous, and ought to be corrected. Genuine commercial acid should never surpass 1.8455; when it is denser we may inter so white testion. infer sophistication, or negligence, in the manufac-

The sulphuric acid strongly attracts water, which it takes from the atmosphere very rapidly, and in larger quantities, if suffered to remain in an open vessel, imbibing one-third of its weight in twenty-four hours, and more than six times its weight in a twelvemonth. If four parts by weight be mixed with one of water If four parts by weight be mixed with one of water at 50°, they produce an instantaneous heat of 300° F.; and four parts raise one of ice to 2120°: on the contrary, four parts of ice, mixed with one of acid, sink the thermometer to 4 below 0. When pure it is colourless, and emits no fumes. It requires a great degree of cold to freeze it; and if diluted with half a part or more of water, unless the dilution be carried. part or more of water, unless the dilution be carried very far, it becomes more and more difficult to congeal; yet at the specific gravity of 1.78, or a few hundredths above or below this, it may be frozen by surrounding it with melting snow. Its congelation forms regular prismatic crystals with six sides. Its boiling point, according to Bergman, is 540°; according to Dalton,

Pure sulphuric acid is without smell and colour, and of an oily of an oily consistence. Its action on litmus is so strong, that a single drop of acid will give to an im-mense quantity of water the power of reddening. It is a most violent caustic; and has sometimes been adis a most violent causite; and has sometimes been administered with the most criminal purposes. The person who unfortunately swallows it, speedily dies in dreadful agonies and convulsions. Chalk, or common carbonate of magnesia, is the best antidate for this, as well as for the strong utitic and muriant cards. When transmitted through an ignited porcelain tube

of one fifth of an inch diameter, it is resolved into two parts of sulphurous acid gas, and one of oxygen gas, with water. Voltaic electricity causes an evolution of sulphur at the negative pole; white a sulphate of the metallic wire is formed at the positive. Sulphuric acid has no action on oxygen gas or air. It merely abstracts their aqueous vapour.

If the oxygenized muriatic acld of Thenard be put If the oxygenized muriatic acid of Thenard be put in contact with the sulphate of silver, there is immediately formed insoluble chloride of silver, and oxygenized sulphuric acid. To obtain sulphuric acid me the highest degree of oxygenation, it is merely necessary to pour barytes water into the above oxygenized acid, so as to precipitate only a part of it, leaving the rest in union with the whole of the oxygen. Oxygenized genized sulphuric acid partially reduces the oxide of

silver, occasioning a strong effervescence.

All the simple combustibles decompose sulphuric acid, with the assistance of heat. About 400° Fahr. sulphur converts sulphuric into sulphurous acid. Se-

sulphur converts sulphuric into sulphurous acid. Several metals at an elevated temperature decompose this acid, with evolutions of sulphuric acid gas, oxidizement of the metal, and combination of the oxide with the undecomposed portion of the acid. The sulphuric acid isof very extensive use in the art of chemistry, as well as in metallurgy, bleaching, and some of the processes for dying; in medicine, it is given as a tonic and stimulant, and is sometimes used externally as a caustic. externally as a caustic.

The combinations of this acid with the various bases The combinations of this acid with the various bases are called sulphates, and most of them have long been known by various names. With barytes it is found native and nearly pure in various forms, in coarse powder, rounded masses, statactites, and regular crystallizations, which are in some lamellar, in others needly, in others prismatic or pyramidal.

This salt, if at all deleterious, is less so than the car-

bonate of barytes, and is more economical for preparing the muriate for medicinal purposes. It requires 43,000 parts of water to dissolve it at 60°.

Sulphate of strontian has a considerable resemblance to that of barytes in its properties. It is found native in considerable quantities at Aust Passage and other places in the neighbourhood of Bristol. It requires 3840 parts of boiling water to dissolve it.

Its composition is 5 acid + 6.5 base.
The sulphate of potassa, extradated kall, formerly vitrodated tarear, sal de duolous, and areamon duplications, crystallizes in hexalicibut prisms, terminated by hevagonal pyramids, but susceptible of variations. crystallization by quick cooling is confused. Its taste is bitter, acrid, and a little saline. It is soluble in 5 parts of boding water, and 16 parts at 60°. In the fire it decrepitates, and is usible by a strong heat. It is decomposable by charcoal at a high temperature. It may but the usual and cheapest mode is to neutralize the acidulous sulphate left after distilling nitric acid, the acidulous sulphate left atter distilling fittic acid, sue sal critica of the old chemists, by the addition of carbonate of potassa. The sal polychrest of old dispensatories, made by deflagrating sulphur and nitre in a crucible, was a compound of the sulphate and sulphite of potassa. The acidulous sulphate is sometimes emissions of the sulphate and sulphite of potassa. ployed as a flux, and likewise in the manufacture of In medicine, the neutral salt is sometimes used as a deobstruent, and in large doses as a mild cathartic dissolved in a considerable portion of water, and taken daily in such quantity as to be gently aperient, it has been found serviceable in cutaneous affections, and is sold in London for this parpose as a nostrum; and cer-tainly it deserves to be distinguished from the generality of quack medicines, very few indeed of which can be taken without miniment hazard.

It consists of 5 and +6 base; but there is a com-bound of the same constituents, in the proportion of

10 acid + 6 potassa, called the bisulphate

The sulphate of soda is the extriolated natron of the college, the well known Glauber's salt, or sal mirabile. college, the Well known creamer some, these after It is commonly prepared from the residuan left after distilling murrate acid, the superfluous acid of which may be saturated by the addition of soda, or precipi-tated by lime; and is likewise obtained in the manutaked by time; and is incovered outsided in the manufacture of the muriate of ammonia. Scherer mentions another mode by Funcke, which is, making 8 parts of calcined sulphate of lime, 5 of clay, and 5 of common salt, into a paste with water; burning this in a klin; and then powdering, lixiviating, and crystallizing. exists in large quantities under the surface of the earth in some countries, as Persia, Bohemia, and Switzer land; is found mixed with other substances in mineral springs and sea-water; and sometimes effloresces on walls. Sulphate of soda is bitter and saline to the taste. It is soluble in 2.85 parts of cold water, and 0.8 at a boil ing heat. It crystallizes in hexagonal prisms bevelled at the extremities, sometimes grooved longitudinally, and of very large size, when the quantity is great. These effloresce completely into a white powder if exposed to a dry air, or even if kept wrapped up in a paper in a dry place, yet they retain sufficient water of crystallization to undergo the aqueous fusion on exposure to heat, but by urging the fire, melt. Barytes and strontian take by urging the fire, field. Bitrytes and strategy its acid from itentirely, and potassa partially; the nitric and muriatic acids, though they have a weaker affinity for its base, combine with a part of it when digested on it. Heated with charcoal, its acid is decomposed. As a purgative, its use is very general; and it has been employed to furnish soda. Pajot des Charmes has made some experiments on it in fabricating glass; with sand alone it would not succeed, but equal parts of carbonate of lime, sand, and dried sulphate of soda, pro-

duced a clear, solid, pale yellow glass.
It is composed of 5 acid + 4 base + 11.25 water in crystals; when dry, the former two primes are its con-

stituents.

Sulphate of soda and sulphate of ammonia form to-

Supplate of sona and supplate of gether a triple salt.

Sulphate of lime, selenite, gypsum, plaster of Paris, or sometimes alabaster, forms extensive strata in various mountains. The specular gupsum, or fuere. Maria, is a species of this salt, and affirmed by some French travellers to be employed in Russia, where it French travellers to be employed in Russia, where it abounds, as a substitute for glass in windows. Its specific gravity is from 1.872 to 2.311. It requires 500 parts of cold water, and 450 of hot, to dissolve it. When calcined, it decrepitates, becomes very friable and white, and heats a little with water, with which it forms a solid mass. In this process it losses its water of crystallization. In this state it is found native in Tyrol, crystallization and process it is found native in Tyrol, crystallization in measurable magnitude and the state it. deal or hexahedral prisms, and is called anhydrous sul-plate of lime. Both the natural and artificial anhy-drous sulphate consists of 56.3 lime, and 43.6 acid. ac-322

cording to Chenevix. The calcined sulphate is much employed for making casts of anatomical or orna-mental figures as one of the base of stucco; as a fine cement for making close and strong joints between stone and joining rims or tops of initial to glass; for making moulds for the Staffordshire potteries; for comees, mouldings, and other ornaments in building. For these purposes, and for being wrought into columns, chimney picces, and various ornaments, about eight hundred tons are raised annually in Derbyshire, where it is called atabaster. In America, it is laid on grass land as a

mande. [Sulphate of lime, gupsum, or plaster of Paris, is emensively and heneficially employed in some parts of the United States as a manure. It is reduced to a fine the United States as a manure. It is reduced to a fine powder, and applied by the spoonful to a hill of Indian corn (maize), or it is thinly scattered over grass land, com maize), of it is thinly scattered over grass hind, and it has a most powerful and fertilizing effect. The gyrsum of Nova Scotia afforded the principal supply for this and other purposes some time sluce, but the states of New-York and Pennsylvania now furnish large quantities, and of an excellent quality, from their own quarries. Gypsun, as a manure, will not answer on the seat-coast, or within the influence of a saline atmosphere. It begins to produce fertilizing effects about 40 or 30 miles from the sea shore. A. Ordinary crystallized gypsum consists of 5 suphiric great 4. 3.3 from 4.2.3 water; the anhydrous variety.

acid + 3.5 lime + 2.25 water; the anhydrous variety

wants of course the last ingredient.

Sulphate of magnessa, the reterolated magnessa of the late, and sal cathurteen amarus of former London Pharmacoperies, is commonly known by the name of Epsom salt, as it was furnished in considerable quan-Epson sail, as it was furnished in consideratic quantity by the immeral water at that place, mixed however with a considerable portion of sulphate of soda. It is afforded, however, in greater abundance and more pure from the bittern left after the extraction of sail from sea water. It has likewise been found efforeseing on brick walls, both old and creently erected, and in small quantity in the ashes of coals. The capillary salt of Idria, found in silvery crystals mixed with the aluminous school in the mines of that place, and hitherto considered as a feathery alum, has been ascertained by Klaproth to consist of sulphate of magnesia, mixed with a small portion of sulphate of iron. mixed with a small portion of surprate of 100. When pure, it erystallizes in small quadrangular prisms, ter-minated by quadrangular pyramids or dihedral summits. Its taste is cool and butter. It is very solvible, requiring only ancopal weight of cold water, and three-fourths its weight of hot. It efforesees in the air, though but slowly. If it attract moisture it contains muriate of magsowny. It affact most create the same recommendate of magnesia, or of hime. Exposed to heat it dissolves in its own water of crystallization, and dries, but is not decomposed nor fused, but with extreme difficulty. It consists, according to Bergman, of 33 acid, 19 magnesia, 48 water. A very pure sulphate is said to be prepared in the neighbourhood of Genoa, by roasting a pyrites found there; exposing it to the air in a covered place for six mouths: watering it organismality and them. for six months; watering it occasionally, and then

Sulphate of magnesia is one of our most valuable purgatives; for which purpose only it is used, and for furnishing the carbonate of magnesia.

It is composed of 5 acid + 2.5 magnesia + 7.875

water, in the state of crystals.

Sulphate of annual crystallizes in slender, flat-tened, hexahedral prisms, terminated by hexagonal pyramids; it attracts a little moisture from very damp air, particularly if the acid be in excess; it dissolves in two parts of cold and one of boiling water. It is not two pairs of contains one of boiling water. It is not used, though Glauber, who called it his secret ammoniacal salt, vaunted its excellence in assaying. It consists of 5 acid + 2 125 mmonia + 1.125 water in its most desiceated state; and in its crystalline state of 5 acid + 2.125 ammonia + 3.375 water. If sulphate of ammonia and sulphate of magnesia

be added together in solution, they combine into a triple salt of an octahedral figure, but varying much; less soluble than either of its component parts; unal-terable in the air; undergoing on the fire the watery fusion; after which it is decomposed, part of the ammonia flying off, and the remainder subliming with an excess of acid. It contains, according to Fourcroy, 68 sulphates of ammonia.

Sulphate of glocina crystallizes with difficulty, its solution readily acquiring and containing a syrupy consistence; its taste is sweet, and slightly astringent; it

is not alterable in the air; a strong heat expels its acid, [ and leaves the earth pure; heated with churcoal, it forms a sulphuret; infusion of galls forms a yellowish-white precipitate with its solution.

Yttrea is readily dissolved by sulphuric acid; the solution goes on, the sulphate crystallizes in small brilliant grains, which have a sweetish taste, but less orminant grains, which have a sweetish taste, but less to than sulphate of glueina, and are of a light amethyst-red colour. They require 30 parts of cold water to dissolve them, and to give up their acid when exposed to a high temperature. They are decomposed by oxalic acid, prussiate of potassa, infusion of galls, and phosphate of soda.

Sulphate of alumina in its pure state is but recently known, and it was first attentively examined by Vau-It may be made by dissolving pure alumina in pure sulphuric acid, heating them for some time, evaporating the solution to dryness, drying the residuum with a pretty strong heat, redissolving it, and crystallizing. Its crystals are soft, foliaceous, shining, and pearly; but these are not easily obtained without cantious evaporation and refrigeration. They have an astringent taste; are little alterable in the air; are pretty soluble, particularly in hot water; give out their acid on exposure to a high temperature; are decomposable by combustible substances, though not readily; and do not form a pyrophorus like alum.

If the evaporation and desiccation directed above be

omitted, the alumina will remain supersaturated with acid, as may be known by its taste, and by its redden-ing vegetable blue. This is still more difficult to crystallize than the neutral salt, and frequently thickens

into a gelatinous mass.

A compound of acidulous sulphate of alumina, with potassa or ammonia, has long been known by the name

Sulphate of zircon may be prepared by adding sulphuric acid to the earth recently precipitated, and not yet dry. It is sometimes in small needles, but commonly pulverulent; very friable; insipid; insoluble in water, unless it contain some acid; and easily decomposed by heat."- Urc's (hem. I)ict.

Sulphuric acid is a powerful antiseptic and tonic: it is given, properly diluted, in the dose of from one to three drops with cinchona and other medicines in the three tools will clithered and it is often applied ex-cure of fevers and debilities, and it is often applied ex-ternally, when very much diluted, against psora and some chronic affections of the skin.

Supritures proags. See Sulphur sublimatum.

SULPHUROPRUSSIC ACID. The sulphuretted

chyazic acid of Porrett.

Dissolve in water one part of sulphuret of potassa Dissolve in water one part of sulphuret of potassa, and boil it for a considerable time with three or four parts of powdered Prussian blue added at intervals. Sulphuret of rom is formed, and a colondess liquid containing the new acid combined with potassa, mixed with hyposulphate and sulphate of potassa. Render this liquid sensibly sour, by the addition of sulphuric acid. Continue the boiling for a little, and when it cools, add a little perovide of manganese in time powder, which will give the liquor a fine crimson colour. To the filtered liquid add a solution containing persulphate of copper, and protosoulphate of iron, in the proportion of two of the former salt to three of the latter, until the crimson colour disamoears. Sulphuroprussiate of the crimson colour disappears. Sulphuroprussiate of copper falls. Boil this with a solution of potassa. copper ratio. Boil this with a solution of potassis, which will separate the copper. Distil the liquid mixed with sulphuric acid in a glass retort, and the peculiar acid will come over. By saturation with carbonate of barytes, and then throwing down this by the equivalent quantity of sulphuric acid, the sulphuroprussic acid is obtained pure.

It is a transparent and colourless liquid, possessing a Strong colour, somewhat resembling acetic acid. Its

strong colour, somewhat resembling acetic acid. Its specific gravity is only 1.022. It dissolves a little sulphur at a boiling heat. It then blackens uitrate of silver; but the pure acid throws down the silver white. By repeated distillations sulphur is separated and the

acid is decomposed.
SULPHUROUS ACID. "Sulphur burned at a low temperature absorbs less oxygen than it does when extemperature absorbs less oxygen than it does when exposed to greater heat, and is consequently acidified in a
slighter degree, so as to form sulphurous acid. This in
the ordinary state of the atmosphere is a gas: but on
reducing its temperature very low by artificial cold,
and exposing it to strong compression, it becomes a
liquid. To obtain it in the liquid state, however, for

E e e 2

practical purposes, it is received into water, by which

As the acid obtained by burning sulphur in this way is commonly mived with more or less sulphuric acid, when sulphurous acid is wanted it is commonly made by abstracting part of the oxygen from sulphuric acid by means of some combustible substance. Mercury or tin is usually preferred. For the purposes of manufactures, however, chopped straw or saw-dust may be employed. If one part of mercury and two of concentrated sulphuric acid be put into a glass retort with a long neck, and heat applied till an effervescence is produced, the sulphurous acid will arise in the form of gas, and may be collected over quicksilver, or received into water, which, at the temperature of 61°, will absorb thirty-three times its bulk, or nearly an eleventh of its

weight.
Water thus saturated is intensely acid to the taste, and has the smell of sulphur burning slowly. stroys most vegetable colours, but the blues are reddened by it previous to their being discharged. A pleasing instance of its effect on colours may be exhibited by holding a red rose over the blue flame of a common match, by which the colour will be discharged wherever the sulphurous acid comes into contact with it, so as to render it beautifully variegated, or entirely white. If it be then dipped into water, the redness after a time

will be restored

Sulphurous acid is used in bleaching, particularly for It likewise discharges vegetable stains, and ironmoulds from linen.

In combination with the salifiable bases, it forms sulphites which differ from the sulphates in their properties. The alkaline sulphites are more soluble than the sulphates, the earthy less. They are converted the sulphates, the curthy less. They are converted into sulphates by an addition of oxygen, which they

acquire even by exposure to the air."

Sultan flower. The Centurea moschata, of Linnaus. Silten florer. The Crateurramoschata, of Linnaus, SUMACH. (Swaak: trom samak, to be red; so called from its red berry.) See Rhus cortaria. Summah, cloudeword. See Blanc cortiaria. Summah, cloudeword. See Blanc cortiaria.

SUPER. 1. This term is applied, in which there is an excess of one of its constituents beyond what is an excess of one of its constituents beyond what is necessary to form the ordinary compound; as supersulphate of potassa, supercarbonate of soda, &c.
2. In anatomy, it regards situation; as superscapula-

ris, supergenualis. In physiology, it means an additional; as super

oxide

fætation. 4. In medicine, it means excess; as superpurgation. Superace 'tas plumbi. See Plumbi acetas.

SUPERARCE NIAS POTASSÆ. Superarsentate of potassa. A compound of potassa with excess of arsenic acid. It was called Macquer's Arsencal Salt, from its discoverer; and has been sometimes given in medi cine, possessing similar properties to those of the white

vide of arsenic. SUPE'RBUS.

SUPERRUS. See Rectus superior oculi. SUPERCI'LIUM. See Enchrow. Supercitium veneris. The milfoil. See Achillea

SUPERFŒTATION. (Superfactatio; from super, above or upon, and factus, a fectus.) The impregna-

tion of a woman already pregnant.

Supergramma'lis. (From super, above, and gemini, the testicles.) The epididymis, or body above the tes-

SUPERGENUA'LIS. (From super, above, and

genu, the knee.) The patella, or knee-pan.
SUPERIMPREGNATIO. (Superimpregna tio; from super, above, and impregnatio, a concep-tion.) Superfectation.

SUPE'RIOR. Some muscles were so named from their relative situation.

their relative situation.

Superior Airis. See Attollers aurem.

SUPERIJIGULA. (Prom super, above, and ligula, a little tongue, the glottis.) The epiglottis.

SUPERPURGATIO. (From super, beyond, and purgo, to punge.) An excessive evacuation by stool.

SUPERSALT, See Subsult.

SUPERSALT, See Subsalt. SUPERSCAPULA RIS. (From super, upon, and scapula, the shoulder blade.) A muscle seated upon

SUPERUS. Above: applied to the perlanthium of flowers when placed above the germen; as in roses,

flowers when placed above the germen; as in roses, and the genus Pyrus.

SUPINATION. (Supinatio; from supinus, placed upward.) The act of turning the paim of the hand upwards, by rotating the radius upon the ulna.

SUPINATOR. (From supinus, upwards.) A name given to those muscles which turn the hand upwards.

IVEN TO INIOSE MUSCIES WHICH turn the mains upwards. Supinator Radii brevis. See Supinator radii brevis. Supinator Radii brevis. A supinator muscle of the hand, situated on the forearm. Supinator brevis-sive minor, of Winslow; and epicondylo-radial, of Dumas. This small muscle, which is tendinous exter-Supinator brevis. nally, is situated at the upper part of the forearm under the supinator longus, the extensor carpi radialis brevis, the extensor carpi ulnaris, the extensor digitorum communis, and the extensor minimi digiti.

It arises tendinous from the lower and anterior part of the outer condyle of the os humeri, and tendinous and fleshy from the outer edge and posterior surface of the ulna, adhering firmly to the ligament that joins the radius to that bone. From these origins its fibres the radius to that bone. From these origins its fibres descend forwards and inwards, and are inserted into the upper, inner, and anterior part of the radius around the cartilaginous surface, upon which slides the tendon of the biceps, and likewise into a ridge that runs downwards and outwards below this surface. It assists in the supination of the hand by rolling the radius

Sepinator Radii Longus. Supinator longus, of Albinus. Supinator longus sive major, of Winslew; and humerosus radial, of Dumas. A long flat muscle, covered by a very thin tendinous fascia, and situated immediately under the integuments along the outer convex surface of the radius. It sales have convex surface of the radius. It arises, by very short tendinous fibres, from the anterior surface and outer ridge of the os humeri, about two or three inches ridge of the os numer, about two or three inches above its external condyle, between the brachialis internus and the tricegs brachii; and likewise from the anterior surface of the external internuscular membrane, or ligament, as it is called. About the middle of the radius, its fleshy fibres terminate in a flat tendon, which is inserted into the inner side of the inferior extre-mity of the radius, near the root of its styloid process.

This muscle not only assists in rolling the radius outwards, and turning the palm of the hand upwards, on which account Riolanus first gave it the name of suprator, but it likewise assists in pronation, and in bending the forearm.

SUPPOSITO'RIUM. (From sub, under, and pono, to put.) A suppository, i. s. a substance to put into the rectum, there to remain and dissolve gradually.

rectum, there to remain and dissolve gradually. Suppressed menses. See Amenorrhaa. SUPPURATION. (Suppuratio; from suppuro, to suppurate.) That morbid action by which pus is deposited in inflammatory tumours. See Fus. SUPRA. Above. This word before any other name, implies its situation being above it; as supraspinatus, above the spine of the scapula, &cc.

Supra-costales. A portion of the intercostal muscles. See Intercostal muscles. Supra-parconfostrus. See Decompositus. Supra-spina'tus. Supra-spinatus seu super-scapularis, of Cowper; and sous-spino-scapulo-trochiterien, of Dumas. A muscle of the arm first so named by Riolanus, from its situation. It is of considerable thickness, wider behind than before, and fills the whole of the cavity or fossa that is above the spine of the scapula. It arises fleshy from the whole of the base of the scapula that is above its spine, and likewise from the spine itself, and from the superior costa. Opposite to the basis of the coracoid process, it is found beginning to degenerate into a tendon, which is at first beginning to degenerate into a tendon, which is at irist covered by fleshy fibres, and then passing under the acromion, adheres to the capsular ligament of the os humeri, and is inserted into the upper part of the large tuberosity at the head of the os humeri. This muscle is covered by a thin fascia, which adheres to the upper edge and superior part of the basis, as well as to the upper edge of the spine of the scapula. The principal rise of the supra spinatus seems to be to assist in misupper eage of the spine of the scapula. The principal use of the supra spinatus seems to be to assist in raising the capsular ligament upwards, it prevents it from being pinched between the head of the os humeri and that of the scapula. It may likewise serve to move the scapula upon the humerus.

(An Arabian word.) 1. The calf of the leg. The fibula

SURCULUS. A term applied by botanists to the stem of mosses, or that part which bears the leaves, it is simple, in Polytricum; branched, in Minium androgynum; with branches turned downward, in Sphagarogynum; with orannes turned unwhalling, in Sping-num palustre; decumbent, creeping, or erect. SURDITAS. Deafness. See Paracusis. SURFEIT. The consequence of excess in eating

or drinking, or of something unwholesome or improper in the food. It consists in a heavy load or oppression of the stomach, with nausea, sickness, impeded perspiration, and at times cruptions on the skin-

spiration, and at times cruptons on the sam.
SURGERY. Chirargia. A branch of the healing
art, having for its object the cure of external diseases.
SURTURBRAND. Fibrous brown coal, or bituminous wood, is so called in Icetand, where it occurs in
great quantities.

great quantities.

SUS. The name of a genus of animals. Class,

Mommalia; Order, Bellux. The hog. The fiesh
called pork is considered a great delicacy, especially
the young and well fed, and is much used in most
countries. Salted, it affords a barder food, still very
nutritious to hard-working people, whose digestion is

Sus scrora. The systematic name of the hog, the fat of which is called lard.

Suspended animation. See Resuscitation. SUSPENSO'RIUM. (From suspendes, to hang.)

SUSPENSO'RIUM. A suspensory; a bag, or bandage, to suspend any part.
Suspensorium Hepatis. The broad ligament of the

Suspensorius testis. The cremaster muscle of

SUSU'RRUS. (From susurro, to murmur.)

SUSU KRUS. (From susurre, to murmur.) An imaginary sound in the ear.
SUTURE. (Susura; from suo, to join together.)
1. In surgery, this term signifies the uniting the lips of a wound by sewing. Classata commissura. A number of different kinds of sutures have been recomber of different kinds of sutures have been recom-mended by writers on surgery, but all of them are now reduced to two; namely, the tanisted, and the inter-rupted, called also the knotted suture. The twisted suture is made in the following manner: having brought the divided parts nearly into contact, a pin is to be introduced from the outside inwards, and carried out through the opposite side to the same distance from the edge that it entered at on the former side; a firm wax ligature is then to be passed around it, making nrm wax ngature is then to be passed around it, making the figure of 8, by which the wounded parts are drawn gently into contact. The number of pins is to be de-termined by the extent of the wound; half an inch, or at most three quarters, is the proper distance between two pins. The interrupted suture is practised where a number of stitches is required, and the interruption is the only distance between the stitches.

2. In anatomy, the word suture is applied to the union of bones by means of dentiform margins, as in the bones of the cranium. See Temporal, sphenoidal, zygomatic, transverse, coronal, lambdoidal, and sagittal

situres.

3. In botany, it is applied to that part of a capsule, which is a kind of furrow on the external surface in which the valves are united. See Capsula.

SWALLOW-WORT. See Asclepias vincetoxicum. SWAMMERDAM, John, was born at Amsterdam, in 1637, and displayed an early predilection for natural history, particularly entomology. At Leyden, where he studied physic, he was distinguished by his skill and assiduity in anatomical experiments and the art of making preparations; and on taking his degree there, in 1667, he published a thesis on Respiration. At this time he began to practise his invention of injecting the vessels with ceraceous matter, from which anatomy has derived very important advantages. In the dissec has derived very important advantages. In the dissec tion of insects, he was singularly dexterous by the aid of instruments of his own invention. The Grand tion of insects, he was singularly dexterous by the aid of instruments of his own invention. The Grand Duke of Tuscany invited him about this period to Florence on very liberal terms, but he declined the offer from aversion to a court-life, and to any religious restraints. In 1669 he published in his native language "A General History of Insecta," afterward reprinted and translated into French and Latin, the latter with splendid figures. In 1672 another work appeared, entitled "Miraculum Natura," detailing the structure of the uterus; of which there were many subsequent editions. By intense application he became hypochon-

driacal and infatuated mysticism, so as to abandon all | London. his scientific pursuits; and his constitution was worn out by his mortifications, so that he died in 1680. Several of his papers, which came long after into the hands of Boerhaave, were published under the title of Biblia Natura;" in which the history of bees is particularly esteemed.

SWEAT. See Perspiration. Sucet flag. See Acorus calamus. Sucet marjoram. See Origanum marjorana. Sucet navevo. See Brassica rapa.

Sweet rush. See Andropogon scananthus, and Aco-

us culamus.

Smoot sultan. The Centaurca moschata.

Smoot sultan. See Myrica gule.

SWIETEN, GERARD VAN, was born at Leyden, in

700. Prom the loss of both his parents, his early education is said to have been somewhat neglected; but being sent at sixteen to the university of Louvain, be soon distinguished himself by his superior attainments He then returned to his native place, and became a favourite pupil of the illustrious Boerhawe; and actain the studying seven years, took the degree of doctor in 1725; and so much had he profited by the instruction of that great master, as well as by his own unwearied researches, that he was immediately appointed to a medical parafessorship, which he occurred for many medical professorship, which he occupied for many years with great reputation. At length, however, his years with great reputation. At length, however, his success excited envy, and there being a law, which prohibited those not professing the religion of the State from bolding any public appointment, Van Switten, being a Roman Catholic, was obliged to resign his chair. He devoted the leisure thus acquired to the composition of his excellent Commentaries on the Aphorisms of Boerhaave: and while engaged in this work, he was invited by the Empress Maria Theresa to settle at Vienna, which he accepted in the year 1745, after stipulating, that he should be allowed to follow his usual mode of life, which was not well adapted for a court. The intellectual and moral endowments of this physician qualified him in every respect for conducting the medical school at Vienna; and that science in Germany was ultimately essentially sand that science in derinany was unimately essentially benefitted by his exertions. He executed, during eight years, the office of professor with singular zeal; and having obtained the full confidence of his royal mistress, he was enabled to reform many abuses, and procure great advantages for the study of medicine in that city. His extensive erudition gained him the farther honour of being intrusted with the interests of learning in general in the Austrian dominions; he was appointed Imperial Librarian, President of the Censorship of Books, &c.; and also created a Baron of the Empire. He was likewise voluntarily enrolled in the list of almost all the distinguished literary societies of Europe. The inflexibility of his character led him to maintain a long opposition to small-pox inoculation. He died in 1772, and a statue was erected to his memory by the Empress at Vienna. His commentaries will always maintain their reputation, from the im-mense number of facts, well selected and well arranged, and the judicious summary of ancient and modern medical knowledge which they contain. He also published another useful work on the Diseases which pre-

vail in Armics. SWIETE'NIA. (Named after Van Swieten.) The name of a genus of plants. Class, Decandria; Order,

SWIETENIA MAHAGONI. The systematic name of the mahogany-tree. The bark of the wood of this tree is of a red colour internally; has an astringent bitter taste; and yields its active matter to water. It has been prepared as a substitute for Peruvian bark, and has been used as such with advantage. Dose, half a

SWINE-POX. See Varicella.

SWINESTONE. A variety of compact lucullite, a subspecies of limestone.

SWINGING. See Leara.
Sword-shaped. See Learcolatus.
SYO'MA (From our, a fig.) Sycosis. A wart
or excrescence resembling a fig on the cyclid, about the

anus, or any other part.

SYDENHAM, THOMAS, was born at Winford-Eagle, in Dorsetshire, about the year 1624. He was entered at Oxford; but during the civil war, when that city was occupied by the royal party, he retired to

On this occasion, the illness of his brotner brought him acquainted with Dr. Coxe, an eminent physician, who, finding Sydenham undecided as to the choice of his profession, persuaded him to study medicine on his return to Oxford. Accordingly, in 1648, he took the degree of bachelor of physic, and about the same period obtained a fellowship; then pursuing his studies a few years longer, he procured a doctor's degree from Cambridge, and settled as a physician in Westminster. The extensive practice which he is said to have enjoyed from 1660 to 1670, must be chiefly ascribed to the superior success of the means employed by him, which, being so different from those previously in use, became more readily a matter of notoriety; for, after the Restoration, his connexions could have contributed little to his advancement. He appears to have paid little attention to the prevailing medical doctrines, being early persuaded that the only mode of acquiring a correct knowledge of his art was to observe diligently the progress of diseases, whence the natural indications of cure might be derived; in which opinion he had the sanction of the celebrated Mr. Locke. It was to febrile diseases that he first applied this inductive method, and it cost him several years of anxious attention to satisfy himself as to the proper mode of treating them: the result of which he published in 1666, under the title of "Methodus curandi Febres," and again, nine years after, with additional remarks, suggested by subsequent experience. His writings are not altogether free from hypothesis; but he seems to have been little influenced by these in his practice; and by closely observing the operations of nature, and the oy closely observing the operations of nature, and the effects of remedies, he was enabled to introduce very essential improvements. In small-pox especially, by checking the eruptive fever by means of cool air, and other antiphlogistic means, he ascertained that the eruption and consequent danger were greatly diminished; which plan applies likewise to other eruptive and febrile diseases, as has been since determined by general experience. His sagacity was also manifested in the correct histories which he has left of some diseases, as particularly small-pox, measles, gout, and hysteria. He was likewise very attentive to the varieties occurring, especially in febrile disorders at different seasons, or in different years; and was led to suppose these connected with a particular constitution of the air. He had been subject, for above thirty years, to gout, and stone in stude to the very limb years, to good and soon as the kidney, which impaired his constitution, and at last terminated his life in 1689. After his death, a manual of practice, composed for his son, was published under the title of "Processus Integri in Morbis fere omnibus curandis." Sydenham ever maintained the character of a generous and public-spirited man; he conducted himself without that arrogance which too often accompanies original talent; and he has been universally acknowledged the first physician of his age. The numerous editions of his works, both singly and the numerous editions of his works, both singly and collectively, in almost every country of Europe, the deference paid to his authority, and the commendations bestowed upon him by almost all practical writers since, amply prove the solidity of his title to the high reputation attached to his name. The college of physicians, though he was only late in life admitted a licentiate, have subsequently placed his bust in their hall, near that of Harvey.

Sy terminal properties of the properties of t

hall, near that of Harvey.

Sy'lphium. Assaferida is so termed by some writers. See Ferula assafatida.

SYLVANITE. Native tellurium.

Sylpius, dignestive salt of. The muriate of potassa.

SY'LYIUS, Francis de Le Boe, was born at Hanau, in 1614. He took his degree at Basle, and then visited, for improvement, some of the chief universities in France and Germany. He settled first at his native place, but removed to Amsterdam, where he enjoyed a high reputation for several years, till he was called to Leyden, in 1658, to assume the office of first professor of medicine. He soon drew together, by his genius and eloquence, a numerous audience from all parts of Europe. He was one of the carliest advocates parts of Europe. He was one of the earliest advocates for Harvey's doctrine of the circulation of the blood, and chiefly effected its reception into that school. But, on the other hand, he materially retarded the progress of medicine by a fanciful hypothesis, which attracted much notice, referring all diseases to chemical changes, producing an excess of acid, or of alkali. His works were chiefly controversial tracts, in which he defended his peculiar notions. He died in 1672.

SYM SYM

Sylvice James du Bois, was born at Amiens, in 1478. Having chosen the profession of physic, he studied diligently the writings of the aucteuts, especially Hippocrates and Galen, and was no less assidation in the pursuit of other branches of medicine, but the action of the breasts is diminished by the increased inflammatory action of the utrus. particularly anatomy, pharmacy, and botany. Before taking a degree, he undertook a private course of lectures at Paris, in which he so distinguished himself, that in two years he collected a crowd of pupils from various parts of Europe; but the jealousy of the Parisian physicians obliged him to go to Montpeher, in 1520, for the purpose of graduation. His extreme parsimony, however, would not permit the necessary expenses: and he was at last successful in compromising his differences with the Parisian faculty. He subse-quently continued his lectures with very great success; quently continued his fectures with very great success; and in 1530 he was appointed professor of medicine at the royal college; but his death occurred five years afterward. His works were popular during the reign of the old school, but are now obsolete. As an anatomist, he merits great praise, having made various discoveries, notwithstanding the few opportunities he had of human dissection. He wrote with great violence against Vesalius, his pupil, because he had presumed

SYMBLE PHARUM. (From συν, with, and βλεφα-ρον, the cyclid.) A concretion of the cyclid to the globe of the eye. This chiefly happens in the supeglobe of the eye. This chiefly happens in the seperior, but very rarely in the inferior palpebra. The causes of this concretion are a bad conformation of the parts, or from ulcers of the corner, the membrana conjunctiva, or internal superficies of the palpebra, or imprudent scarlifications, or burns, especially if the eye remains long closed. There are two species, the partial, or total; in the former, the adhesion is partial, in the latter, the membrana conjunctiva and cornea are concreted to the eyelid together.

SYMBOLE. (From συμδαλλω, to knit together.) It is said either of the fitness of parts with one another, or of the consent between them by the intermediation of nerves, and the like.

(From συμβυλου, a sign, and The doctrine of the signs and SYMBOLO'GIA. hoyos, a discourse.)

symptoms of disease.

SYMMETRY. The exact and beautiful proportion of parts to one another.

SYMPATHETIC. Sympatheticus.

Relating to sympathy See Intercostal nerve

2. See Intercostal nerve.
Sympathetic nerve. See Intercostal nerve.
SYMPATHY. (Sympathia; from συμπασχω, to suffer together, to sympathize.) All the body is sympathize to the sympathic and together, and dependent, the one part upon the rest, constituting a general sympathy. But sometimes we find particular parts more intimately dependent upon each other than upon the rest of the body, constituting a particular sympathy. Action cannot be greatly increased in any one organ, without being diminished in some other; but certain parts are more apt to be affected by the derangement of particular organs than others; and it was the observance of lar organs than others; and it was the observance of this fact which gave foundation to the old and well known doctrine of sympathy, which was said to proceed "tum ob communionem et similitudinem generis, tum ob viciniam." It may be thought that this posi-tion of action being diminished in one organ, by its tion of action being diminished in one organ, by its increase, either in the rest or in some other part, is contradicted by the existence of general discusses or actions affecting the whole system. But in them we find, in the first place, that there is always some part more affected than the rest. This local affection is sometimes the first symptom, and affects the constitution in a secondary way, either by the irritation which it produces, or by an extension of the specific action. At other times the local affection is coeval with the received disease and is called sympathetic. It is obgeneral disease, and is called sympathetic. It is observed, in the second place, that as there is some part served, in the second place, that as there is some part which is always more affected than the rest, so also is there some organ which has its action, in consequence of this, diminished lower than that of the rest of the system, and most commonly lower than its natural standard. From the extensive sympathy of the stomach with almost every part of the body, we find that this most frequently suffers, and has its action diminished in every disease, whether general or local, provided that the diseased action arises to any considerable degree. There are also other organs which may. able degree.

instance, we see, in the general disease called puerperal fever, that the action of the breasts is diminished by the increased inflammatory action of the uterus.

In consequence of this balance of action, or general connexion of the system, a sudden pain, consequent to connexion of the system, a studien pain, consequent to violent action of any particular part, will so weaken the rest as to produce fainting, and occasionally death. But this dependence appears more evidently in what may be called the smaller systems of the body, or those parts which seem to be more intimately connected with each other than they are with the general system. Of this kind is the connexion of the breasts with the uterthis kind is the connexton of the broads with the the-rus of the female; of the urethra with the testicles of the male; of the stomach with the liver; and of the intestines with the stomach, and of this again with the intestines with the stormer, and of the bone with the other; and of the body of the muscle with its insertion; of the skin with the parts below it.

These smaller systems, or circles, shall be treated

regularly; but first it may be proper to observe, that these are not only intimately connected with them-selves, but also with the general system, a universal

sympathy being thus established.

That there is a very intimate connexion between the That there is a very intimate connexion between the breasts and uterus has been long known; but it has not been very satisfactority explained. Fallopius, and all the other authors, declare plainly that the sympathy is produced by an anastomosis of vessels; Bartholin adding that the child being born, the blood no longer goes to the uterus, but is directed to the breasts and changed into milk. But none of all those who talk of this derivation, assign any reasonable cause which may produce it.

In pregnancy, and at the menstrual periods, the uterus is active; but, when the child is delivered, the action of the uterus subsides, while the breasts in their turn become active, and secrete milk.

If, at this time, we should again produce action in the uterus, we diminish that of the breasts, and destroy the secretion of milk, as is well illustrated by the case of inflammation of the uterus, which is incident to lying-in women. When the uterus, at the cessation of lying-in wontien. When the uter my art is considered the menses, ceases to be active, or to secrete, we often find that the breasts have an action excited in them, becoming slowly inflamed, and assuming a cancerous disposition. The uterus and breasts seem to be a set disposition. The uterus and breasts seem to be a set of glands balancing each other in the system, one only being naturally active, or secreting properly, at a time; and accordingly we seldom, if ever, find that when the uterus yields the menstrual discharge, the milk is secreted in perfection, during the continuance of this discharge, nor do we was find them both influenced at charge, nor do we ever find them both inflamed at the

The uterus has not only this connexion with the breasts, but it has also a very particular sympathy with the stomach, which again sympathizes with the brain; and thus we see how a disorder of the uterus may induce an extensive series of affections, each dependent

on the other

The organs of generation in the male form likewise a little system, in which all the parts exhibit this sympathy with each other. They likewise give us a very good instance of the association of action, or sympathy, in the common acceptation of that word.

Sympathy is divided into, first, the sympathy of equilibrium, in which one part is weakened by the increased action of another; and, secondly, the sympathy of association, in which two parts act together at

The sympathy of association is produced suddenly, and for a short time. The sympathy of equilibrium is produced more slowly, and continues to operate for a much longer time.

It is curious enough, that most, or at least many, of those organs, which seem to be connected by the sympathy of equilibrium, exhibit likewise more or less of the sympathy of association, when under the circum-

stances in which this can take place.

The sympathy of equilibrium is seen in the effects of inflammation of the end of the urethra on the testicle; which often diminishes its action, and produces a very disagreeable sensation of dulness, or, if this in-flammation be suddenly diminished, the action of the e diseased action arises to any consider-There are also other organs which may, place. The same is seen in the connexion of the

weethra with the bladder and prostate gland, as is men-troned in all the dissertations on gonorthea. These the tendon of a muscle is indiamed, the body of that tioned in all the dissertations on gonorrhea. These parts likewise affect the stomach greatly, increased action in them weakening that organ much. This is seen in the effects of swelled testicle, or excessive ve-nery, or inflamed bladder, and in a stone; all which weaken the stomach, and produce dyspepsia. The same remark applies to the kidney; vomiting and flatu-

lence being produced by nephritis.

The sympathy of association, or an instance of sympathy in the common acceptation of the word, is likewise seen in the connexion between the glans and testicles in coltion; but for this purpose, the action in the glans must be sudden, and of short duration; for, if continued long, weakness of the testicles, or diminished action, is induced. In those parts which exhibit this natural association of action, if the action of one part be suddenly and for a short time increased, the action of the sympathizing part will likewise be increased; as we see in the instance already given of coition, and likewise in paroxysms of the stone, in which the glans penis, after making water, becomes very painful.

But if the action be more slowly induced, and continued for a long time, then this association is set aside, by a stronger and more general principle of the equilibrium of action, and the sympathizing part is weakened. Hence violent inflammation of the end of the urethra produces a weakness and mitability of the

bladder, dulness of the testicle, &c

bradder, dumess of the testicle, &c.

There is also an evident sympathy of equilibrium between the stomach and lower tract of intestines; which two portions may be said in general to balance each other in the abdomen. When the action of the intestines is increased in diarrhora, the stomach is often weakened, and the author terror and main terror. weakened, and the patient termined with nausea. This will be cured, not so easily by medicines taken into the stomach, as by anodyne clysters, which will abate the action of the intestines. When the intestines. tines are inflamed, as in strangulated herma, vomiting is a never-failing attendant.

When again the stomach is inflamed, the intestines are affected, and obstinate costiveness takes place; even in hysterical affections of the stomach, the intes-tines are often deranged. Injections of cold water frequently relieve these affections of the stomach, by their

action on the intestines.

action on the intestines.

The liver and stomach are also connected with one another. When the liver is indamed, or has its action increased, the stomach is weakened, and dyspeptic symptoms take place. When the stomach is weakened, as, for instance, by intoxication, then the action of the liver is increased, and a greater quantity than usual of bile is secreted. The same takes place in warm climates, where the stomach is much debilitated

If the liver has its action thus frequently mereased, it assumes a species of inflammation, or becomes, as it is called, scirrhous. This is exemplified in the habitual dram-drinkers, and in those who stay long in warm countries, and use free lones with the stomach. The liver likewise sympathizes with the boain; for when this organ is injured, and its action much impaired, as in compression, inflammation and suppura-

Besides this connexion of the stoppach with the liver, it is also very intimutely dependent on the brain, being weakened when the action of the brain is increased; as we see in an inflammation of that organ. The brain again is affected with pain when the stomach is weakened by intoxication or other causes; and this pain will be often relieved by slowly renewing the action of the stomach by such stimuli as are natural to it, such as small quantities of scup frequently repeated.

A slight increase of action in the stomach, at least if A signi increase of action in the sounce, according to motify a morbid kind, affects the brain so as to produce sleep, diminishing its action. This we see in the effects of a full meal, and even of a draught of warm water. The stomach likewise sympathizes with the water. The stomach the wise sympathizes with the throat, squeennishness and amorexia being often produced by inflammation of the tonsils. This inflammation is frequently abated by restoring or increasing the action of the stomach. Hence the throat, in slight inflammation, is frequently easier after dinner; hence, likewise, the effects of emetics in cynanche.

The extremities of bones and muscles also sympathize in the same manner. When one end of a bone is inflamed the action of the other is lessened, and

thize in the same manner. When one end of a bone is inflamed, the action of the other is lessened, and pain is produced; for a painful sensation may result

the tendon of a muscle is inflamed, the body of that muscle often is panied, and rice rersa.

Lastly, the external skin sympattizes with the parts below it. If it be inflamed, as in evisible, the parts immidiately beneath are weakened, or have their na-tural action diminished. If this inflammation affect the face, or scalp, then the brain is injured; and head-ache, stupor, or delirium supervene. If it attack the skin of the abdomen, then the abdominal viscera are affected, and we have vomiting and purging, or obstinate costiveness, according to circumstances. is illustrated by the disease of children, which is called by the women the bowel-laye, in which the skin is inflamed, as they suppose, from some morbid matter

If the internal parts be inflamed, the action of the surface is diminished, and, by increasing this action, we can lessen or remove the disease below; as we see daily proved by the good effects of blisters. When the stomach, intestines, or kidney have been very irri-table, a sinapism has been known to act like a charm; and in the deep-scated inflammations of the breasts, bowels, or joints, no better remedy is known, after the

use of the lancet, than bilsters.

The utility of issues in diseases of the lungs, the liver, and the joints, is to be explained on the same principle. In these cases we find that issues do little good unless they be somewhat paintul, or he in the state of healthy ulcers. An indolent flabby sore, however large the discharge (which is always thin, and accompanied with little action), does no good, but only adds to the misery of the patient. We may, however, err on the other hand, by making the issues too painful, or by keeping them active too long; for after they have removed the inflammatory disease below, they will still operate on these parts, lessening their action and preventing the healing process from going on properly. This is seen in cases of curvature of the spine, where, at first, the inflammation of the vertebra is diminished by the issues: but if they be kept long open after this is removed, they do harm. We often see the patient recover rapidly after his surgeon has healed the issue in despair, judging that it could do no farther service, but only increase the weakness of his patient.

It is a well established fact, that when any particular action disappears suddenly from a part, it will often lar action disappears studenty from a pair it will offer speedily affect that organ which synpathizes most with the part that was originally diseased. This is best seen in the inflammatory action, which, as practi-cal writers have well observed, occasionally disappears quickly from the part first affected, and then shows

itself in some other.

From the united testimony of all these facts, Mr. Burns, of Glasgow, maintains the doctrine just deli-vered, and proposes to introduce it into pathological reasonings. In the whole of the animal economy, we discover marks of the wisdom of the Creator, but perhaps in no part of it more than in this, of the existence the sympathy of equilibrium; for, if a large part of the system were to have its action much increased, and all the other parts to continue acting in the same proportionate degree as formerly, the whole must be soon exhausted; 'for increased action would require for its support an increased quantity of energy.)

But upon this principle, when action is much increased in one part, it is to a certain degree diminished in some other, the general sum or degree of action in the body is thus less than it otherwise would be, and

consequently the system suffers less.

consequently the system sures less.

SY MPILYSIS. (From cer. together, and orw, to grow.) Mediate connexion. A genus of the connexion of homes, in which they are united by means of an intervening body. It comprehends four species, viz. synchondrosis, syssarcosis, syneurosis, and syndesmosis

SY MPHYTUM. (From συμφυω, to unite: called because it is supposed to unite and close the lips wounds together.)

I. The name of a genus of plants in the Linnæan system. Class, Pentandria; Order, Monogymia, 2. The pharmacopoial name of the comfrey. See

Symphytum officinale. SYMPHYTUM MACULOSUM. See Pulmonaria offici-

Symphytum minus. See Prunella.

SYMPHYTUM OFFICINALE. The systematic name of

the comfrey. tum-falus-oratis lanceolatis decurrentibus, is administered where the althea cannot be obtained, its roots abounding with a viscid glutinous juice, whose virtues are similar to those of the althwa.

SYMPHYTUM PETREUM. See Coris monspeliensis.

Symphytum Petreem. See Coris monspetiensis. Syna'nehes. See Cynanche.
Syna'nehea. (From ovvayza, the quinsey: so called from its uses in that disease.) Quinseywort.
SYNARTHRO'SIS. (From ovv, together, and apopov, a joint.) Immoveable connexion. A genus of connexion of bones, in which they are united together by an immoveable union. It has three species, viz. suture, harmony, and gomphosis.

SYNASTOMO'SIS. This is used in the same sense

as Anastamosis

SYNCHONDRO'SIS. (From συν, with, and χονδρος, a cartilage.) A species of symphysis, in which one hone is united with another by means of an intervening cartilage; as the vertebræ and the bones of the

SYNCHONDROTO MIA. (From συνχονδρωσις, the symphysis of the pubes, and  $\tau \epsilon \mu \nu \omega$ , to cut.) tion of dividing the symphysis of the pubes. The opera-

SY'NCHYSUS. (From συγχυω, to confound.) solution of the vitreous humour into a fine attenuated aqueous fluid. In Cullen's Nosology, it is a variety of his species caligo pupilla.

his species catigo purimo.

Synct pitis ossa. See Parietal bones.

Synct pitis ossa. See Parietal bones.

Synciput. (Synciput vel sinciput, itis. n.)

The forepart of the head or cranium.

Synctope. (From συν, with, and κοπ/ω, to cut, or strike down.) Animi deliquium; Leipothymia; Defectio animi; Dissolutio, Ecanimatio; Asphusia; Virtum lapsus; Apopsychia; Apenus of disease in the Class Fainting or swooning. A genus of disease in the Class Fainting or swooning. Neuroses, and Order Adynamic, of Cullen, in which the respitation and action of the heart either cease, or become much weaker than usual, with paleness and coldness, arising from diminished energy of the brain, or from organic affections of the heart. Species: 1. Syncope cardiaca, the cardiac syncope, arising without a visible cause, and with violent palpitation of the heart, during the intervals, and depending generally on some organic affection of the heart or neighbouring

2. Syncope occasionalis, the exciting cause being manifest.

The disease is sometimes preceded by anxiety about the precordia, a sense of fulness ascending from the stomach towards the head, vertigo or confusion of ideas, dimness of sight, and coldness of the extremities. The attacks are frequently attended with or end in, vomiting, and sometimes in epileptic or other convulsions. The causes are sudden and violent emotions of the mind, pungent or disagreeable odours, derangement of the prime view, debility from preceding disorders, loss of blood spontaneous or artificial, the operation of paracentesis, &c. During the paroxysm the nostrils are to be stimulated with some of the preparations of ammonia, or these may be exhibited internally, if the patient is capable of swallowing; but when the disease has originated from large loss of blood, such stimulants must be used cautiously. When it is connected with a disordered state of the stomach, if an emetic can be given, or vomiting excited by irritating the fauces, it will pro-bably afford relief. Sometimes sprinkling the face with cold water will recover the patient. And when there is reason for supposing an accumulation about the heart, the disease not having arisen from debilitating causes, a moderate abstraction of blood may be made with propriety. Between the fits we should endeavour to strengthen the constitution, where debility appears concerned in producing them, and the several exciting causes must be carefully guarded against. When organic affections of the heart, and parts commetted with it, exist, all that can be done is, to palliate the attacks of fainting; unless the primary disease can be removed, which is a considerable to the control of the

removed, which is extremely rare.

Synope Anglinosa. See Anglina pectoris.

SYNDESMOLO'GIA. (From συνόεσμος, a ligament, and λογος, a discourse.) The doctrine of the ligaments. SYNDESMO-PHARYNGEUS. See Constrictor pharyngis medius

SYNDESMO'SIS. (From συνδεσμος, a ligament.) That species of symphysis or mediate connexion of rate climates, being rarely, if ever, met with in very

Consolida major. This plant, Symphy | bones in which they are united by ligament, as the radius with the ulna.

SYNDE SMUS. (From συνδεω, to bind together.)

SYNE CHIA. Ecvexia. A concretion of the iris with the cornea, or with the capsule of the crystalline

lens. The proximate cause is adhesion of the crystaline lens. The proximate cause is adhesion of these parts, the consequence of inflammation. The remote causes are, a collapse of the cornea, a prolapse of the Iris, a swelling or tumefied cataract, hypopium, or original formation. The species of this disorder are,

1. Synchia anterior totalis, or a concretion of the iris with the cornea. This species is known by inspecting the parts. The pupil in this species is dilated or concretated, or it is found concreted; from whence various lesions of vision.

2. Synechia anterior partialis, when only some part of the iris is accreted. This concretion is observed in one or many places; from hence the pupil is variously disfigured, and an inordinate motion of the pupil is per-

3. Synechia anterior composita, when not only the whole iris, but also a prolapse of the crystalline lens,

unites with the cornea.

4. Synechia posterior totalis, or a concretion of the whole uves, with the ciliary processes and the capsule of the crystalline lens.

5. Synechia posterior partialis, when only some part of the capsule of the crystalline lens is concreted with the uvea and cornea. This accretion is simplex, duplex, triplex, or in many places.

Synechia complicata, with an amaurosis, cataract.

wydriasis, myosis, or synizesis.
SVNEURO'SIS. (Prom συν, with, and νευρον, a nerve, because the ancients included membranes, ligaments, and tendons under the head of nerves.) A specific production of the synize of the synizes of t cies of symphysis, in which one bone is united to another by means of an intervening membrane.

SYNGENESIA. (From cruy, together, and yarcots, generation.) The name of a class of plants, in the sexual system of Linnaus, consisting of plants in which the anthers are united into a tube, the filaments on which they are supported heing mostly separate and distinct, The flowers are compound.

SYNIZE'SIS. A perfect concretion and coarctation of the pupil. It is known by the absence of the pupil, and a total loss of vision. The species are,

1. Synizesis nativa, with which infants are sometimes born. In this case, by an error of the first conformation of the pupil, there is no perforation; it is very rarely found.

2. Synizesis accidentalis, a concretion of the pupil, from an inflammation or exulceration of the uvea or iris, or from a defect of the aqueous or vitreous bu-

mour

3. Synizesis, from a secession of the iris or cornea, From whatever cause it may happen, the effect is certain, for the pupil contracts its diameter; the longitudinal fibres, separated from the circle of the cornea, cannot resist the orbicular fibres: from hence the pupil is wholly or partially contracted.

4. Synizesis complicata, or that which is complicated with an amaurosis, synechia, or other occular disease The amaurosis, or gutta serena, is known by the total absence of light to the retina. We can distinguish this not only by the pupil being closed, but likewise the eyelids; for whether the eyelids be open or shut, all is darkness to the patient. The other complicated cases are known by viewing the eye, and considering the parts anatomically.

5. Synizesis spuria, is a closing of the pupil by mu

5. Spinresis spinra, is a crossing of the pupil by mecus, pix, or grunnous blood.

SY'NOCHA. (From συνεχω, to continue.) Febris symocha. Inflammatory fever. A species of continued fever, characterized by increased heat; pulse frequent, strong, hard; urine high-coloured; senses not impaired. This fever is so named from its being attended with the fever is so named from its being attended with symptoms denoting general inflammation in the system, by which we shall always be able readily to distinguish by which we shall always be able readily to distinguish it from either the nervous or putrid. It makes its attack at all seasons of the year, but is most prevalent in the spring; and it seizes persons of all ages and habita, but more particularly those in the vigour of life, with strong elastic fibres, and of a plethoric constitution. It is a species of fever almost peculiar to cold and temp

warm ones, except among Europeans lately arrived; and even then, the inflammatory stage is of very short duration, as it very soon assumes either the nervous or

putrid type.

The exciting causes are sudden transitions from heat to cold, swallowing cold liquors, when the body is much heated by exercise, too free a use of vinous and spirituous liquors, great intemperance, violent passions of the mind, the sudden suppression of habitual evacuations, and the sudden repulsion of eruptions. It may be doubt ed if this fever ever originates from personal infection; but it is possible for it to appear as an epidemic among such as are of a robust habit, from a peculiar state of the atmosphere. It comes on with a sense of lassitude and inactivity, succeeded by vertigo, rigors, and pains over the whole body, but more particularly in the head and back; which symptoms are shortly followed by redness of the face and eyes, great restlessness, intense heat, and unquenchable thirst, oppression of breathing, and nausea. The skin is dry and parched; the tongue is of a scarlet colour at the sides, and furred with white in the centre; the urine is red and scanty; the body is in the centre; the urine is red and scanty; the body is costive; and there is a quickness, with a fulness and hardness in the pulse, not much affected by any pressure made on the artery. If the febrile symptoms run very high, and proper means are not used at an early period, stupor and delirium come on, the imagination becomes much disturbed and hurried, and the patient raves violently. The disease usually goes through its course in about fourteen days, and terminates in a crisis, either by disaphoresis disreptes, hemoryphase from the either by diaphoresis, diarrhea, hæmorrhage from the nose, or the deposite of a copious sediment in the urine; which crisis is usually preceded by some variation in the pulse.

Our judgment as to the termination of the disease must be formed from the violence of the attack, and the nature of the symptoms. If the fever runs high, or continues many days with stupor or delirium, the event may be doubtful; but if to these are added, picking at bed-clothes, startings of the tendons, involuntary discharges by stool and urine, and hiccups, it will then certainly be fatal. On the contrary, if the febrile heat abates, the other symptoms moderate, and there is a tendency to a crisis, we may then expect a recovery. In a few instances, this fever has been known to terminate the market.

minate in mania.

On opening those who die of an inflammatory fever, an effusion is often perceived within the cranium, and now and then, topical affections of some of the viscera

are to be observed.

The chief indication in synocha is to lessen the ex-The chief indication in synocha is to lessen the ex-cessive vascular action by evacuations, and the anti-philogistic regimen. Of the former, by far the most im-portant is blood-letting, which should be freely prac-tised in this disease, making a large orifice into the vein, and taking from ten to twenty-four ounces of blood, according to the violence of the symptoms, and the strength of the patient. The disorder may some-times be cut short at once by this active treatment in the beginning; but if it should continue urgent, and the strength of the rules keep up, the repetition of it within strength of the pulse keep up, the repetition of it within more moderate limits will be from time to time advisable. Purging is next in efficacy, especially with those articles which produce copious serous discharges, and thoroughly clear out the intestines, as the saline cathar tics, with infusion of senna, jalap with supertartrate of potassa, &c. As the disease advances, however, we must act less on this part, and attempt to promote the other discharges, particularly that by the skin: for which purpose calomel, antimonials, and the saline diaphoretics are to be exhibited. The antiphlogistic regimen consists in obviating stimuli of every kind, so far as this can be done safely; impressions on the senses, particularly the sight and hearing, bodily and mental exertion, &c. must be guarded against as much as possible. The diet should be of the most sparing blad should be of the most sparing as possible. The tast should be of the most sparing kind; barley-water, or other mild liquid, with some acid, perhaps, added, or a little nitrate of potassa dissolved in it, taken in small quantities from time to time, chiefly to quench the thirst, and cool the body, will be the most proper; strictly interdicting animal food, fermented liquors, and the like. The stimulus of heat must be especially obviated by light clothing, or even exposing the body to the air, ventilating the apart-ment, sprinkling the floor with vinegar and water, &c. When the head is much affected, besides the general treatment, it will be proper to take blood locally, have

the head shaved and cooled by some evaporating lotion, apply a blister to the neck, and, perhaps, stimulate the lower extremities. In like manner, any other organ being particularly pressed upon, may require additional means, which will be sufficiently understood by adverting to the several phlegmasiæ.

ing to the several puleghasia:

SY NOCHUS. (From συνεχω, to continue.) A mixed fever. A species of continued fever, commencing with symptoms of synocha, and terminating in typhus; so that synocha synocha and typhus, blended together in a slight degree, seem to constitute this species of fever, the former being agt to preponderate at its commencement, and the latter towards its termination.

Every thing which has a tendency to enervate the body, may be looked upon as a remote cause of this fever; and accordingly we find it often arising from great bodily fatigue, too great an indulgence in sensual pleasures, violent exertion, intemperance in drinking, and errors in diet, and now and then likewise from the suppression of some long-accustomed discharge. tain passions of the mind (such as grief, fear, anxiety, and joy,) have been enumerated among the causes of fever, and in a few instances, it is probable, they may have given rise to it; but the concurrence of some nave given rise to it; but the concurrence of some other powers seems generally necessary to produce this effect. The most usual and universal cause of this fever is the application of cold to the body; and its morbid effect seem to depend partly upon certain cir-cumstances of the cold itself, and partly upon certain circumstances of the person to whom it is applied

The circumstances which seem to give the application of cold due effect, are its degree of intensity, the length of time which it is applied; its being applied generally, or only in a current of air, its having a degree of moisture accompanying it, and its being a considerable or sudden change from heat to cold. The circumstances of persons rendering them more liable to be affected by cold, seem to be debility, induced either by great fatigue, or violent exertions, by long fasting, by great laugue, or violent exertions, by one lasting, by the want of natural rest, by severe evacuations, by preceding disease, by errors in diet, by intemperance in drinking, by great sensuality, by too close an application to study, or giving way to grief, fear, or great anxiety, by depriving the body of part of its accustomed electrics. clothing, by exposing any one particular part of it, while the rest is kept of its usual warmth, or by exposing it generally or suddenly to cold when heated much beyond its usual temperature; these we may, therefore, look upon as so many causes giving an effect to cold which it otherwise might not have produced. Another frequent cause of fever seems to be breathing Another frequent cause of lever seems to be breating air contaminated by the vapours arising either directly or originally from the body of a person labouring under the disease. A peculiar matter is supposed to generate in the body of a person affected with fever, and this floating in the atmosphere, and being applied to one in health, will no doubt often cause fever to take place in him, which has induced many to suppose, that this infectious matter is produced in all fevers whatever, and that they are all, more or less, contagious.

and that they are all, more or less, contagious.

The effluvia arising from the human body, if long contined to one place without being diffused in the atmosphere, will, it is well known, acquire a singular virulence, and will, if applied to the bodies of men become the cause of fever. Exhalations, arising from animal or vegetable substances in a state of putrefaction, have been looked upon as another general cause of fever: marshy or moist grounds, acted upon by heat for any length of time, usually send forth exhalations which prove a never-failing source of fever, but more particularly in warm climates. Various hypotheses have been maintained, with respect to the proximate cause of fever; some supposing it to be a lentor or viscidity prevailing in the mass of blood, and stagnating in the extreme vessels; others, that it is a noxious matter introduced into, or generated in, the body, and that the increased action of the heart and arteries is an effort of nature to expel the morbific matter; others, that it consisted in an increased secretion of bile; and others again, that it is to be attributed to a spasmodic body; which last was the doctrine taught by the late Dr. Cullen. constriction of the extreme vessels on the surface of the

An attack of this fever is generally marked by the patient's being seized with a considerable degree of languor, or sense of debility, together with a sluggishness in motion, and frequent yawning and stretching;

SYN SYP

and the skin over the whole surface of the body ap-pears constricted; he then perceives a sensation of cold in his back, passing from thence over his whole frame; and this sense of cold continuing to increase, tremors in the limbs and rigors of the body succeed

With these there is a loss of appetite, want of taste in the mouth, slight pains in the head, back, and loins, small and frequent respirations. The sense of cold and its effects after a little time becomes less violent, and are alternated with flushings, and at last, going oil altogether, they are succeeded by great heat diffused generally over the whole body; the face looks dushed, the skin is dry, as like wise the rongue, universal restlessness prevails, with a violent pain in the head, oppression at the chest, sickness at the stomach, and an inclination to voint. There is likewise a great thirst and costiveness, and the pulse is full and frequent, beating, perhaps, 90 or 100 strokes in a minute. When the symptoms run very high, and there is a considerable determination of blood to the head, a delirium will anse. In this fever, as well as most others, there is generally an increase of symptoms towards evening.

If the disease is likely to prove fatal, either by its continuing a long time, or by the severity of its symp-toms, then a starting of the tendons, picking at the bed-clothes, involuntary discharges by urine and stool, coldness of the extremities, and hiccoughs, will be observed; where no such appearances take place, the

disease will go through its course

As a fever once produced will go on, although its cause be entirely removed, and as the continued or fresh application of a cause of fever neither will increase that which is already produced, nor occasion a new one, there can be no certainty as to the duration of fever; and it is only by attending to certain appearances or changes, which usually take place on the approach of a cusis, that we can form any opinion or decision. The symptoms pointing out the approach of a crisis are, the pulse becoming soft, moderate, and near its natural speed; the tongue losing its fur and becoming clean, with an abatement of thurst; the skin being covered with a gentle moisture, and feeling soft to the touch; the secretory organs performing their several offices; and the urine depositing flaky crystals of a dirty red colour, and becoming turbid on being allowed to stand any time

Many physicians have been of opinion, that there is something in the nature of all acute diseases, except those of a putrid kind, which usually determines them these of a painta stand, wind usually acceptances them to be of a certain duration, and, therefore, that these terminations, when salutary, happen at certain periods of the disease rather than at others, miless disturbed in their progress by an improper mode of treatment, or the arising of some accidental circumstance. periods are known by the appellation of critical days: periods are known by the appendion of critical days; and from the time of Hippocrates down to the present, have been pretty generally admitted. The truth of them, Dr. Themas thinks, can hardly be disputed, however they may be interrupted by various causes. A great number of phenomena show us, that both in the sound state and the diseased, nature has a ten-dency to observe centain periods; for instance, the vicissitudes of eleping and watching occurring with such regularity to every one; the accurate periods that the menstrual flux observes, and the exact time of pregnancy in all viviparous animals, and many other such instances that might be adduced, all prove this

With respect to diseases, every one must have observed the definite periods which take place in regular intermittents, as well those universal as topical; in the course of true inflammation, which at the fourth. or at the farthest the seventh day, is resolved, or after this period changes into either abscess, gangrene, or scirrbus; in exanthematous cruptions, which, if they are favourable and regular, appear on a certain and definite day; for example, the small-pox about the definite day; for example, the sinus-pox are fourth day. All these appear to be founded on immutable laws, according to which the motions of the body in health and in disease are governed.

The days on which it is supposed the termination of continued fevers principally happens, are the third, fifth, seventh, ninth, eleventh, fourteenth, seventeenth,

and twentieth.

A simple continued fever terminates always by a

the face and extremities at the same time become pale, I the febrile matter falling on some particular parts, it

Great anxiety, loss of strength, intense heat, stupor, determin, irregularity in the pulse, twitchings in the fingers and hands, picking at the bed-clothes, startings of the tendons, incomess, involuntary evacuations by name and stool, and such like symptoms, point out the certain approach of death.

On the contrary, when the senses remain clear and distinct, the tebrile heat abotes, the skin is soit and moist, the pulse becomes moderate and is regular, and the urna deposites flaky crystals, we may then expect a speedy and pappy termination of the disease

The usual appearances which are to be observed on dissection of those who die of this fever, are an effusion within the cranium, and topical affections perhaps of some viscera.

This disease being of a mixed nature, the treatment must be modified accordingly. In the beginning, the same plan is to be pursued as in synocha, except that we must be more sparing in the use of the lancet, in proportion as there is less power in the system, to main tam the increased action of the heart and arteries; although if any important part should be much at-fected, we must act more vigorously, to prevent its disorganization, and the consequent destruction of life. When the character of the disease is changed, the means proper will be such as are pointed out under the

ead of Tuphus. SYNO VIA. (A term of no radical meaning, coined by Paracelsus.) An unctuous fluid secreted from certain glands in the joint in which it is contained. Its use is to lubricate the cartilaginous surfaces of the

articulatory bones, and to facilitate their motions.

SYNOVIAL. Synovialis. Of or belonging to the synovia, or fluid of the joints.

SYNOVIAL GLANDS. Glandulæ synoviales. The assemblage of a fatty finibriated structure within the

assemblage of a latty minorated structure within the cavities of some joints.

SYNTENO'SIS. (From συν, with, and τενων, a tendon.) A species of articulation where the bones are connected together by tendons.

SYNTE'VIS. (From συντηχώ, to dissolve.) A ma-

rasings of wasting of the body. SYNTHESIS. (From συντίθημι, to compose.)

Combination. See Analysis.
Syntheti's Mus. (From συνθεω, to concur.) The

reduction of a fracture.

SYNULO TICA. (From συνουλοω, to cicatrize.) Medicines which heal wounds.

SY PHILIS. (The name of a shepherd, who fed

SYPHILS. (The name of a shephera, who leat the flecks of king Alcithous, who, proud of their number and beauty, insulted the sun; as a punishment for which, table relates, that this disease was sent on earth; or from acphos, fitthy.) Lues renerea; Morbus gallicus; Aphrodisius morbus; Morbus indicus; Morbus neapolitemus; Patursa. A genus of disease in the Class Cuchexia, and Order Impetigines, of Cullen. Towards the close of the memorable fifteenth century, about the year 1494 or 1495, the inhabitants of Europe were greatly alarmed by the sudden ap-pearance of this disease. The novelty of its symptoms, pearance of this disease. The hoventy of resymptoms, and the wonderful rapidity with which it was propagated throughout every part of the known world, soon made it an important object of medical inquiry.

In common language, it is said a person has syphilis or is poxed, when the venereal poison has been received into, or is diffused through the system, and there produces its peculiar effects, as ulcers of the mouth or produces its peculiar effects, as dicers of the mouth or fauces, spots, tetters, and ulcers of the skin, pains, swelling, and cames of the bones, for But as long as the effects of the poison are local and confined to or near the genitals, the disorder is not called syphilis, here venerea, nor por that distinguished by some par-nearly mane, according to its different scal or appearance; such as gonorrhora venerea, chancre, or bubo.

The venereal disease is always produced by a poison. Concerning the nature of this poison, we know no more than we do about that of the small-pox or any other contagion we know only that it produces peculiar effects. The smallest particle of this poison is this poison is sufficient to bring on the most violent disorder over the whole body. It seems to spread and diffuse itself by a kind of fermentation and assimilation of matter; and, like other contagions, it requires some time after being regular crisis in the manner before mentioned, or from applied to the human body, before it produces that

effect. It is not known whether it has different degrees of actimony and volatility, or whether it is always the same in its nature, varying only with regard to the particular part to which it is applied, or according to the different habit and constitution or particular idiosyncrasy of the person who receives the infection. We know that mercury possesses a certain and specific power of destroying the venereal virus; but we are quite uncertain whether it acts by a sedative. adstringent, or evacuant quality; or, which is not unlikely, by a chemical elective attraction whereby both substances uniting with one another are changed to a substances unting with one another are changed to a third, which is no more hurtful, but has some new properties entirely distinct from those which any of them had before they were united. The variolous missma, we know, produces its effects in about twenty or twenty-four days after the infection is received from the atmosphere, and eight or ten days if by inoculation, but the venereal virus seems to keep no particular period. At some times, and, perhaps, in particular persons, Dr. Swediaur has seen chancres arise in the space of twelve hours, nay, in a still shorter time, indeed he mentions in a few minutes, after an impure coition; whereas in most cases, they make their appearance only in so many days. The generality of men feel the first symptoms of a clap between the second and fifth days after an impure coitus; but there second and that days are an imple contact that are instances where they do not appear till after as many weeks or months. Dr. S. was consulted by a young man, who was seized with a violent discharge from the plans along with a phimosis, but without any chancres, four weeks after coition; and during all the interval, he felt not the least symptom of the disease. Some years ago, a gentleman went out from London, in seemingly perfect health, to the East Indies; but on his arrival in that hot climate, after a voyage of four months, a violent clap broke out before he went on shore, though he could have received no infection during the voyage, as there was not a woman on board There are instances which render it probable that the virus may lie four, five, or six weeks, and perhaps longer, on the surface of the genitals before it is absorbed and were it not then to produce a chancre, might pro-bably not he absorbed at all. We see daily examples, where common women communicate the infection to different men in the space of several weeks, while they themselves have not the least symptom of syphilis local or universal, the poison lying all that time in the vagina harmless, and generally without being absorbed. How long the venereal virus may burk in the body itself, after it has been absorbed into the mass of before it produces any sensible effect, is a matter of equal uncertainty. There is scarcely a practitioner who has not observed instances of its remaining harmless for weeks or even months in the body. Dr. Swediaur had a case, where, after lying dormant for half a year, it broke out with unequivocal symptoms. But the following instance, if it be depended upon, is still more extraordinary:

Some years ago, says the above writer, I was consulted by a gentleman about a sore throat, which I declared to be venereal. My patient was astonished; and assured me that for nine years past he had not had the feast venereal complant, nor had he any reason to believe he had since received any infection; but that he had been in the East Indies, where he was affected with a violent clap. On his return to Europe, being to appearance in good health, he married, and communed perfectly free of any such complaint for which he applied to me was completely removed. With regard to its effects, the venereal poison follows no constant rule; for though, in general, it affects first the throat, where it produces ulcerations, in others it exerts its virulence on the skin or hones. While the greatest part of mankind are thus easily affected by this poison, there are some few who seem to be altogether unsusceptible of the infection: as happens equally with the variolous contagion, though they go into infected places, and expose themselves to inoculation or every hazard by which the disease is generally communicated.

Some persons are more liable than others to be infected who are seemingly of the same habit; may the very same person seems to be more liable to be infected at one time than another, and those who have been once infected seem to be more liable to catch the infec tion a second time, than those who never were infected before with the disease. The climate, season, age, state of health, diosyncrasy, are, perhaps, as in other diseases, the necessary perdisposing causes. The same difference is observable in the progress made by the disease after the patient is infected. In some the progress is slow, and the disease appears scarcely togain any ground: while in others it advances with the utmost rapidity, and speedily produces the most terrible symptoms. Whether the veneral poison can be abso. bed into the system, without a previous excoriation, or ulceration of the genitals, or some other parts of the surface of the body, is still a matter of doubt. Several cases, however, have occurred which render it highly probable, if not certain, that the poison really is now and then absorbed, without any previous excoriation or ulceration whatsoever, and thus produces buboes and other venereal symptoms in the body.

It has been asserted by the earliest and even by some late writers, that it may be caught by lying in the same bed or fiving in the same room with or after an infected person. What may have been the case at the commencement of the disease, cannot be said, but the most accurate observations and experiments which have been made upon the subject, do not confirm this to be the case in our times. Nor are nurses intected in the Lock-Hospital, where they live night and day with patients in all stages of the distemper. The fact seems to be, that patients in our times are apt to impose upon themselves, or upon physicians and surgeons, with negard to this matter; and the above opinion easily gains ground among the vulgar, especially in countries where people are more influenced by prejudices, superstition, servile situation in life, or other circumstances. Hence, we sometimes hear the most rudiculous accounts given in those countries by friars and common soldiers, of the manner by which they came to this disorder; such as piles, gravel, cofies, contusions, fevers, little-houses, lying in suspected beds, or lying in hed with a suspected person, retention of the senior, coition with a woman in menstruation, the use of each had woman in the each of the latest contents and countries where or here they had been a case of the latest and countries where they have not here they had been a case of the manner when he are of each had woman in menstruation, the new of each and woman in menstruation, the new of each and woman in the each of the latest and countries where they had a support the each of the latest and countries where they have content to the each of the latest and countries the countries and countries the each of the latest and countries and countries the each of th

beds, or fying in near with a suspective person, recension of the senior, cotion with a woman in menstruation, the use of ender, bad wine, or beer, &c. Another question undecided is, whether the vene-real poison ever inferts any fluid of our body, besides those of the mucous and lymphatic system. Does the venereal poison in an infected woman ever affect the milk, and consequently can the infection be conveyed to the infant by the milk alone, without any venereal ulcer on or about the hipples? It is equally a matter of uncertainty whether the venereal disease is ever conveyed from an infected father or mother, by coition, to the firtus, provided their genitals are sound; or whether a child is ever affected with venereal symptoms in the uterus of an infected mother. Such infected infants as came under the observation of Dr. Swediam, or of his friends, whose practice afforded them frequent opportunities of seeing new-born infants, seemed rather to inilitate against the opinion. Neither he nor any of them, have ever been able to observe ulcerations or other symptoms of a venereal kind upon newborn children; and such as make ther appearance four, six, or eight, or more days afterward, on the genitals, anus, lips, mouth, &c. may rather be sup posed to arise by infection during the passage from ulcers in the vagina of the mother, the skin of the infant being then nearly in as tender a state as the glans pens, or the labia: and this perhaps at the time when an absorption of the venereal poison might more easily take place without a previous excoriation, or ulceration of the skin. All the ways, therefore, by which we see, in our days, the venereal poison communicated from an unhealthy to a healthy person, may be reduced to the following heads:

 By the coition of a healthy person with another who is infected with venereal disease of the genitals.

2. By the coition of a healthy person with another, apparently healthy, in whose genicals the poison lies concealed, without having yet produced any bad symptom. Thus, a woman who has perhaps received the infection from a man two or threedays before, may during that time infect, and often does infect, he man or men who have to do with her afterward, without having any symptoms of the disease visible upon herself; and vice versa, a man may infect a woman in the same manner. Such instances occur in practice every day.

3. By sucking; in this case the nipples of the wet

nurse may be infected by venereal ulcers in the mouth! hurse may be infected by venerical uncertainty of the child: or, vice verse, the nipples of the nurse being infected, will occasion venereal ulcers in the child's nose, mouth, or lips. It is uncertain, as mentioned above, whether the venereal poison was ever propagated by means of the milk from the breast.

4. By exposing to the contact of venereal poison any part of the surface of the body, by kissing, touching, &c. especially if the parts so exposed have been previously excordated, wounded, or ulcerated by any cause whatever. In this manner we frequently see venereal ulcers arise in the scrotum and thighs; and there are some well-attested instances where the infection took place in the fingers of midwives or surgeons. instances are recorded of venereal ulcers in the nos risk, eyelids, and lips of persons who had touched their own genitals, or those of others, affected at the time with local venereal complaints, and then rubbed their nostrils, &c. with the fingers, without previously washing the hands. There was, a few years, ago in London, a melancholy example of a young lady, who, after having drawn a decayed tooth, and replaced it with one taken immediately from a young woman apparently in perfect health, was soon after affected with an ulcer in the mouth. The sore manifested symptoms an ulcer in the mouth. The sore manifested symptoms of a venereal nature; but such was its obstinacy, that it resisted the most powerful mercurial remedies, ter-minating at last in a caries of the maxilla, with a most shocking erosion of the mouth and face, by which the unhappy patient was destroyed. During all this, how-ever, we are informed that not the smallest venereal symptom was perceived in the woman from whom the sound tooth was procured.

5. By wounding any part of the body with a lancet or knife infected with the venereal virus. In this instance there is a similarity between the venereal poison and that of the small-pox. There are several examand that of the small-pox. There are several examples of the latter being produced by bleeding with a lancet which had been previously employed for the purpose of inoculation, or of opening variolous pustules, without being properly cleaned afterward. In Moravia, in the year 1577, a number of persons who assembled in a house for bathing, had themselves, according to the custom of that time, scarlifed by the barber, were all of them infected with the venereal disease, and treated accordingly. Krato, the physical production of the custom of the disease, and treated accordingly. Krato, the physician, and Jordan, who gave a description of this distemper, are both of opinion that it was communicated by means of the scarifying instrument. And Van Swieten relates several instances where the lues was communicated by a similar carelessness in cleaning

the instrument used in bleeding or scarification. The venereal poison applied to the urethra and vagina produce a clap. See Gonorrhæa. Coming into contact with other parts, it produces a chancre or bubo and constitutional symptoms. Chancre is the primary and immediate consequence of inoculation with true venereal matter in any of the ways which have been mentioned, and may arise in any part of the human body: but it generally shows itself in the pudenda, because the infecting medium is there first taken up in the one sex, and communicated by contact to the other. It is not, however, peculiar to these parts, for whenever the same kind of fluid is applied to a scratch on the hand, finger, lip, or nipple, the same consequence will There can be no doubt but that the slightest abrasion possible, or breach of the cuticle, is sufficient to give a speedy admission to this destructive poison. A chancre makes its appearance with a slight inflammation which afterward ulcerates, or there arises a small pimple or pustule filled with a transparent fluid, which soon breaks and forms into a spreading ulcer The period at which it makes its appearance after infection is very various, being most commonly in five or six days, but in some cases not till after the expiration of as many weeks. There is both a local and general predisposition to chancres: Jews and Mahommedans, from the constant exposure of the glans and loss of the prepuce, have the cuticle of the glans penis of much firmer texture than those who have not been circumcised; and they are, from this circumstance, much less subject to chancres than the rest of mankind. For the same reason they who, from the shortness of the preuce, generally keep the glans uncovered, are not so liable to the diseases as those who have long narrow preputia; for persons thus formed constantly keep the surface of the glans and prepuce moist and tender, length casting o

and almost at every cohabitation are liable to abrasions and to exceriations.

There is an intermediate state of the venereal disease between a local and constitutional affection, which arises from the absorption of venereal matter from some surface to which it has been applied. The glands The glands situated nearest the parts thus affected are apt to be come swelled and inflamed, so as to give rise to what is termed bubo: and the parts of generation usually coming first in contact with the matter, so the glands in the groin generally afford this particular symptom. In most cases the venereal virus is absorbed from a chancre or an ulcer in the urethra; but instances have occurred where a bubo has arisen without either go norrhæa or any kind of ulceration, and where the matter appears to have been absorbed, without any erosion of the skin or mucous membrane.

A bubo comes on with pain in the groin accompa-nied with some degree of hardness and swelling, and is at first about the size of a kidney bean, but continuis at first about the size of a kidney bean, but continuing to increase, it at length becomes as large as an egg,
occasions the person to experience some difficulty in
walking, and is attended with a pulsation and throbbing in the tumour, and a great redness of the skin.
In some cases the suppuration is quickly completed, in
others it goes on very slow, and in others again the inflammatory appearances go off without any formation. of pus. In a few instances the glans have been known to become scirrhous. The following are the characteristics of a venereal bubo. The swelling is usually confined to one gland, the colour of the skin where inflammation prevails is of a florid red, the pain is very acute, the progress from inflammation to suppuration and ulceration is generally very rapid, the suppuration is large in proportion to the size of the gland, and there is only one abscess

as only one auscess.

A bubo is never attended with danger, where the inflained gland proceeds on regularly to suppuration, but in particular cases it acquires an indolence after coming to a certain length, arising from a scrofulous taint, or by being combined with erysipelas it terminates in gangrene, and occasions a great loss of substance. This termination is, however, more frequently met with in boostlate than is a right to make the case of the case the case of the in hospitals than in private practice, and may partly be attributed to the contaminated state of the air of the wards wherein venereal patients are lodged.

A constitutional taint is the third form under which

it has been mentioned, that the venereal poison is apt to show itself, and which always arises in consequence of the matter being absorbed and carried into the circulating mass of fluids. The absorption of it may, how-

ever, take place in three ways:

1st, It may be carried into the circulation, without producing any evident local effect on the part to which

it was first applied.

2dly, It may take place in consequence of some local affection, such as either gonorrhea, chancre, or bubo.

3dly, It may ensue from an application of the matter to a common sore or wound, similar to what happens in inoculating for the small-pox.

The most general way, however, in which a consti-tutional taint is produced, is by an absorption of the matter, either from a chancre or a bubo.

matter, either from a chancre or a bubo. When venereal matter gets into the system, some symptoms of it may often be observed in the course of six or eight weeks, or probably sooner; but in some cases, it will continue in the circulating mass of fluids for many months before any visible signs of its effects are produced. The system being completely contaminated, it then occasions many local effects in different parts of the body, and shows itself under a variety of forms, many of which put on the appearance of a distinct disease. We may presume that this variety depends wholly on the difference of constitution, the different kind of paus affected, and the different state these narts were in at the time the matter or poison was these parts were in at the time the matter or poison was

applied.
The first symptoms usually show themselves on the skin and in the mouth or throat. When on the skin, reddish and brownish spots appear here and there on the surface, and eruptions of a copper colour are dis-persed over different parts of the body, on the top of which there soon forms a thick scurf or scale. This scurf falls off after a short time, and is succeeded by another, and the same happening several times, and at

flischarges an acrid fætid matter. When the matter is [ bles or fruits, or by adding vegetable extracts or other secreted in the glands of the throat and mouth, the tongue will often be affected so as to occasion a thickhess of speech, and the tonsils, palate, and uvula will become ulcerated so as to produce a soreness and diffi-culty of swallowing, and likewise a hoarseness in the voice. In a venereal ulcer of the tonsil, a portion of it voice. In a venereal licer of the tonal, a portion of it seems as if it was dug out; it is, moreover, very foul, and has a thick, white matter adhering to it, which cannot be washed off. By these characteristic marks it may, in general, readily be distinguished from any other species of ulceration in these parts.

If the disease affects the eyes, obstinate inflammations are presented to the extent of the second of the extent of the second of the extent of the second of the extent of the

tion, and sometimes ulceration, will also attack these

organs.

The matter sometimes falls on deep-seated parts, such as the tendons, ligaments; and periosteum, and occasions hard, painful swellings to arise, known by the name of nodes.

When the disease is suffered to take its own course. and not counteracted by proper remedies, the patient will, in the course of time, be afflicted with severe pains, but more particularly in the night-time; his countenance will become sallow, his hair will fall off, he will lose his appetite, strength, and flesh, his rest will be much disturbed by night, and a small fever of the hectic kind will arise. The ulcers in the mouth and the nectic kind will arise. The ulcers in the mouth and throat being likewise suffered to spread, and to occasion a caries of the bones of the palate, an opening will be made from the mouth of the nose; and the cartilages and bones of the nose being at length corroded away, this will sink on a level with the face. Some constitutions will bear up for a considerable time against the disease, while others again will soon sink under a general weakness and irritation produced by under a general weakness and intraduct products, it. If the disorder is recent, and the constitution not impaired by other diseases, a perfect cure may easily be affected; but where it is of long standing, and accompanied with the symptoms of irritation which have been mentioned, the cure will prove tedious, and in many cases uncertain, as the constitution and strength of the patient may not admit of his going through a course of medicine sufficient to destroy the poison; or his health may be in such a state, as that only a very small quantity of mercury can be administered even at considerable intervals.

The general appearances to be observed on dissection of those who die of lues, are, caries of the bones, but more particularly those of the cranium, often communicating ulceration to the brain itself, together with enlargements and indurations of the lymphatic glands, scirrhus of several of the organs, particularly the liver and lungs, and exostoses of many of the hardest

bones.

Syphilis indica. The yaws.
Syphilis polonica. A variety of venereal disease.
Syriz olbum. A fragrant essential oil, obtained by distilling the canary balsam-plant, or moldavica.

ny distilling the canary balsam-plant, or moldavica. Syrian kerb mastich. See Peucrium marum.

SYRI'GMUS. See Paracusis.

SYRI'NGA. (From orpoyt, a pipe: so called because from its branches pipes were made after the removal of the pith.) The pipe-tree.

SYRI'NGMOS. See Paracusis.

SYRINGO'TOMUM. (From orpoyt, a fistula, and tempo, to cut.) An instrument to cut fistulas.

SY'RINX. (A Hebrew word.) A pipe. A syringe. A fistula.

SYRMAI'SMUS. (From συρμαίζω, to evacuate.) A gentle evacuation by vomit or stool.

gentle evacuation by vomit or stool.

SYRUP. See Syrupus.

Syrup of ginger. See Syrupus zingiberis.

Syrup of lemon. See Syrupus limonum.

Syrup of marsh-mallows. See Syrupus althee.

Syrup of mulberry. See Syrupus awranti.

Syrup of poppy. See Syrupus awranti.

Syrup of red poppy. See Syrupus arranti.

Syrup of red poppy. See Syrupus rose.

Syrup of roses. See Syrupus rose.

Syrup of sena. See Syrupus croci.

Syrup of sena. See Syrupus conci.

Syrup of sena. See Syrupus conci.

Syrup of tolu. See Syrupus conci.

Syrup of sona. See Syrupus tolutanus.

SYRUPUS. (Serab, a potion, Arabian.) The name

syrup is given to sugar dissolved in water; and in the

present pharmacoposia this is termed simple syrup. See

Syrupus simplez. Syrupus simplex.

Syrups are generally made with the juice of vegeta-

substances. To keep syrups without fermenting, it is necessary that their temperature should be attended to, and kept as near 55° as possible. A good cellar will answer this purpose, for there are few summers in which the temperature of such a place rises to 60°.

Syrupus aceti. Sugar and vinegar. A refrige-

which the temperature of such a place rises to seffige-Syrupus acrit. Sugar and vinegar. A refrige-rating syrup. See Osymel.

Syrupus of marsh-mallow, bruised, half a pound; refined sugar, two pounds; water, agalion. Boil down the water with the marsh-mallow-root to half, and the water with the marsh-mallow-root to half, and press out the liquor when cold. Set it by for 24 hours, that the feculencies may subside; then pour off the liquor, and having added the sugar, boil it down to a proper consistence. An emollient and demulcent; mostly given to allay tickling coughs, hoarseness, &c. in conjunction with other remedies.

SYRUPUS AURANTII. Syrup of orange. Strupus auxantii. Syrupus e corticibus aurantii. Syrupus e corticibus aurantii. Syrupus e corticibus aurantiorum. Syrupus de cortice aurantiorum. Take of fresh orange-pel, two ounces; boiling water, a pint; refined sugar, three pounds. Macerate the orange-peel in the water for 12 hours in a covered vessel; then pour off the liquot, and add the sugar. A pleasant bitter and sto-

machic.

SYRUPUS CARYOPHYLLI RUBRI. A warm and stimulating syrup.

Syrupus coluctic. An acrid and diuretic compound given in dropsies.

SYRUPUS CORTICIS AURANTII. See Syrupus au-

Syrupus croci. Syrup of saffron. Take of saffron, an ounce; boiling water, a pound; refined sugar, two pounds and a half. Macerate the saffron in the water for 12 hours in a covered vessel, then strain the liquor, and add the sugar. This imparts a beautiful colour to liquids, and is sometimes employed as a cordial. Among the vulgar, syrup of saffron is in high esteem in measles, small-pox, &c.

Syrupus of the succession of the monitorial successions of the succession of the suc very pleasant, cooling, and acid syrup which may be exhibited with advantage, in febrile and bilious affec-

Syrupus Mori. Syrup of mulberry. Syrupus mororum. Take of mulberry-juice, strained, a pint; refined sugar, two pounds. Dissolve the sugar in the mulberry-juice in the manner directed for simple syrup. Syrup of mulberries is very grateful and aperient, and may be given with such intentions to children.

Syrupus Papaveris. Syrupus papaveris albi. Syrupus c meconio. Syrupus de meconio, sive diacodium. Take of capsules of white poppy, dried and bruised, Take of capsules of white poppy, dried and bruised, the seeds being separated, 14 ounces; refined sugar, two pounds; boiling water, two gallons and a half. Macerate the capsules in the water for 24 hours, then boil it down by means of a water-bath to one gallon, and press out the liquor strongly. Boil down the liquor again, after being strained, to two pints, and strain it while hot. Set it by for 12 hours, that the feculencies may subside: then boil down the clear liquor to a pint, and the supart is the manure directed for simple and add the sugar in the manner directed for simple syrup. It should be kept in stone bottles, and in a cellar. A useful anodyne preparation, which may be added with advantage to a vast variety of medicines against diseases of the bowels, coughs, &c.

Syrtyus Paraveris erratict. See Syrupus the-

Syrupus Rhamni. Syrup of buckthorn. Take of the fresh juice of buckthorn-berries, four pints; ginger-root, sliced, allspice, powdered, of each half an ounce; root, suced, anspice, powdered, of each hair an ounce; refined sugar, three pounds and a haif. Set by the juice for three days, that the feculencies may subside, and strain. To a pint of the clear juice add the ginger and allspice; then macerate in a gentle heat four hours, and strain; boil down what remains to one pint and a half, mix the liquors, and add the sugar in the manner directed for simple syrup.

This preparation, in doses of three or four spoonfuls, operates as a brisk cathartic. The principal inconvenience attending it is, that it is very unpleasant, and

necasions a thirst and dryness of the mouth and fauces, I and sometimes violent gripes. These effects may be prevented by drinking liberally of water-gruel, or other

warm liquids, during the operation.

Syrupus RHEADOS. Syrupus papaveris erratici. yrupus de papavere erratico. Syrup of 10d-poppy. Syrupus RHEADOS. Syrupus papaverie erratici. Syrupus de papavere erratici. Syrup of rod-poppy. Take of red-poppy petals, fresh, a pound; boiling water, a pint and two fluid ounces; refined sugar, two pounds and a half. Having heated the water in a water-bath, add gradually the red-poppy petals, frequently stirring them; then having removed the vessel, macerate for twelve hours; next press out the liquor, and set it by to settle; lastly, add the sugar as directed for simple syrup. This is a very mild anodyne, and used more for the colour, than for its medical properties

SYRUPUS RIBIS NIGRI. Syrup of black currents. Aperient and diuretic qualities are attributed to this

preparation.

Syrupus Rosæ. Syrup of roses. Syrupus rosarum solutious. Syrupus e rosis siccis. Take of damask-rose petals, dried, seven ounces; refined sugar, six pounds; boiling water, four pints. Macerate the rose-petals in the water for twelve hours, and strain; then evaporate the strained liquor, by means of a water-bath, to two pints and a half; then add the sugar in the manner described for simple syrup. A useful laxative for children. From 2j. to 3 ss.

Syrupus Rubi id. Syrup of raspberry. A pleasant aperient syrup for children.

Syrupus scillificus. Expectorant and diuretic.

See Oxymel scilla.

Syrupus senne. Syrup of senna. Take of senna-leaves, two ounces; fennel-seed, bruised, an ounce; manna, three ounces; refined sugar, a pound; water, boiling, a pint. Macerate the senna-leaves and fennelseeds in the water for an hour, with a gentle heat; strain the liquor, and mix with it the manna and sugar; then boil to the proper consistence. A useful purgative for children.

Syrupus simplex: Syrupus. Simple syrup. Take of refined sugar, two pounds and a half; water, a pint. Dissolve the sugar in the water in a water-bath, then set it aside for twenty-four hours; take off the soum;

and if there be any feculencies, pour off the clear liquor from them.

Syrupus Toluntanus. Syrup of Tolu. Take of balsam of Tolu, an ounce; water, boiling, a pint; refined sugar, two pounds. Boil the balsam in the water half an hour in a covered vessel, occasionally stirring it: strain the liquor when it is cold, and then add the sugar in the manner directed for simple syrup. A use ful balsamic syrup, calculated to allay tickling coughs and hoarsenesses.

A pleasant laxative for young SYRUPUS VIOLE.

SYRUPUS ZINGIBERIS. Syrup of ginger. Take of ginger-root, sliced, two ounces; water, boiling, a pint; refined sugar, two pounds. Macerate the ginger-root in the water for twenty-four hours, and strain; then add the sugar in the manner directed for simple syrup. A carminative and stomachic syrup. Dose from one to three drachms.

SYSPASIA. (From συσπαω, contraho, conveilo.)
The name of a genus of diseases in Good's Nosology.
Class, Neurotica; Order, Systatica. Comatosespasm.
It has three species, viz. Syspasia convolsio, hysteria.

epilepsia.
SYSSARCO'SIS. (From συν, and σαρξ, flesh.) A species of union of bones, in which one bone is united to another by means of an intervening muscle. In this manner the os hyoides is connected with the ster-

this manner the os hyoides is connected with the sternum and other parts.

SYSTATICA. (From συνιστημι, congredior, consocio.) The name of an order of diseases in Class Neurotica, of Good's Nosology. Diseases affecting several, or all the sensorial powers simultaneously. Its genera are, Agrypnia, Dysphonia, Antipathia, Cephalaa, Pinnus, Syncope, Sysposa, Carses.

System, abscribent. See Hosorbents and Lymphatics. System, arrous. See Nevre.

System of plants. See Plants.

System, vascular. The arteries and veins.

SYSTOLE. (From συςρλλω, to contract.) The contraction of the heart.

SYSTREMMA. (From συστρεφω, contorqueo, to wind about, or twist.) The cramp.

BANDAGE. A bandage so named from its figure. It is principally used for supporting the dressings, after the operation for fistula in ano, in diseases

the perineum, and those of the groins, anus, &c.

TABA'CUM. (From Tobago, the island from thence it was first brought.) Tobacco. See Nicowhence it was first brought.)

TABASHEER. The silica found in the hollow stem of the bamboo cane is so called. Its optical properties are peculiar.

TABE'LLA. (Diminutive of tabula, a table.)

lozenge.

TA'BES. (Tabes, is, f.; from tabesco, to consume or pine away.) A wasting of the body. A genus of disease in the Class, Cachavia; and Order, Marcares, of Cullen; characterized by emaciation and weakness, attended with hectic fever, but without any cough or spitting, which last symptoms distinguish it from phthisis. It has three species; 1. Tabes purulenta, from a scrofulous habit: 3. Tabes venenata, from poison. See Atrophy.

Tabes coxaria. A wasting of the thigh and leg

from an abscess, or other cause in the hip.

TABES DORSALIS. Lordosis. A wasting of the body, attended at first with pain in the back or loins, and afterward also in the neck and head, caused by a too early or a too frequent use of venery. Dr. Cullen makes it a variety of atrophia inanitorum. Hippocrates calls it tabes ossis.

TABES OSSIS SACRI. See Tabes dorsalis.

TABES PULMONALIS. See Phthisis.

TABES RENALIS. A wasting away of the body from an abscess of the kidney.

TABULAR SPAR. Table spar. Schaalstein of

Werner. Prismatic augite of Jameson. A mineral of a grayish white colour, found in primitive rocks at

TACAMAHACCA. (Indian.) See Fagara oc-

TA'CTUS. See Touch.

TEDA. ( $\Delta aiba$ ; from  $\delta a\omega$ , to burn.) A torch. A species of pine which burns like a torch. A medicated torch for fumigations.

TÆ'NIA. (Tarvia, a Hebrew word, signifying a fillet: the name of a worm, from its resemblance to a fillet or tape.) The tape-worm. A genus of intestinal worms; characterized by a long, flat, and jointed body.

Worms,
See Worms.
TAIL. See Cauda.
TALC. See Talcum.
TA'LCUM. (From talk, German.) Talc. Of this.
TA'LCUM. (If the law good sairth subspecies of rhommineral, which is Jameson's sixth subspecies of rhomboildal mica, there are two kinds. I. Common tale, of a greenish-white colour, greasy feel, breaks into curved plates or leaves, occurs in beds of mica slate, and clay slate, in several parts of Scotland. 2. Indurated tale, or tale slate, of a greenish-gray colour, found in Scotland, and abundantly on the Continent. It is used by carpenters, tailors, hat makers, and glaziers for draw-

Tale is composed of pure magnesia mixed with near twice its weight of silex and less than its weight of alumine. The greenish foliaceous Venice tale was formerly used medicinally, as possessing antacid and aperient qualities.

Tallow. See Fat.

TA'LPA. (From τυφλος, blind.) Talparia. A mole. Also, a tumour resembling a mole in cating, and creeping under the skin.

TA'LUS. See Astragalus
TALCITE. Nacrite of Jameson. Earthly tale of
Weiner. A greenish-white, scaly mineral found in
the mining district of Freyberg.
TAMALAPA'TRA. The Indian leaf is so termed by
80me anthors. See Jamarandus.
TAMARIND. See Tamarandus.
TAMARINDUS. (Tamarandus, i, m.: from tamar,
or tamarandu, which is, in the Arabian language, a synonyme of the dactylus or date, 1. The name of a
genus or plants. Class, Monadelphia; Order, Triandria. The tamarind-tree.
2. The pharmacopoeial name of the tamarind. See dria. The tumarind-tree.

2. The pharmacopæial name of the tamarind. See

2. The pharmacoptain name of the tamarind.

Tamarindus indica.

The pulp of the tamarind, with the seeds, commetted together by numerous tough strings or filters, are brought to us freed from the outer shell, and commend in account of the pulp in the monly preserved in syrup. According to Long, tama-rinds are prepared for exportation at Jamaica, in the following manner: "The fruit or pods are gathered in June, July, and August, when full ripe, which is known by their fragility or easy breaking on small pressure between the finger and thumb. The fruit taken out of the pod, and cleared from the shelly fragments, is placed in layers in a cask, and boiling syrup, just before it begins to granulate, is poured in, till the cask is filled the symp pervades every part quire down to the bottom, and, when cool, the cask is headed for sale." The tamarınd is employed as a laxative, and for abating thirst or heat in various inflammatory complaints, and for correcting putrid disorders especially of a bilious kind, in which the cathartic, antiseptic, and refrigerant qua-litussofthe fruit have been found equally useful. When intended merely as a laxative, it may be of advantage (Pr. Woodville observes) to join it with manna or purgatives of a sweet kind, by which its use is tendered safer and more effectual. Three drachms of the pulp are usually sufficient to open the body, but to prove moderately cathartic, one or two ounces are required. It is an ingredient in the confectio cassia, and confectio

TAMARI'SCUS. See Tamarix gallica.

TA'MARI'S. (Tremarix, icis, f.; from Tamarik, alteristic, Heb.: named from its properties of cleamsing and purifying the blood.) The name of a genus of plants. Class, Pentandria; Order, Digynia. The transfect of the second of the sec tamarisk-tree

tamarisk-tree.

Tamarisk Gallica. The systematic name of the tamarisk-tree. Tamariscus. Tamarisk. The bark, wood, and leaves of this tree, were formerly employed rectiginally, though seldom used at present. The for-

wood, and leaves of this tree, were formerly employed medicinally, though seldom used at present. The former for its aperient and corroborant virtues in obstructions of the liver; the latter in icterus, hæmoptysis, and some affections of the skin.

TAME-POISON. See ... selepias vincetoxicum.
TANACETUM. (Tanacetum, i, n.; corrupted from tanasiu, athumusu, the old name for tansy.). I. The name of a genus of plants in the Linngan system. Class, Syngenesia; Order, Polygamia superflua. Tansy. Tansy.
2. The pharmacopæial name of the tansy. See Ta-

nacetum vulgare.

nacetum vulgare.

Tanaterum balsamita. The systematic name of the officinal alecost. Balsamita mas; Balsamita major; Tanuctum hortense; Costus horterum. Costuary, or alecost. The plant which bears this name in the pharmacopeias, is the Tanacetum balsamita; foliis coutis, integris, serratis, of Linnews. A fragrant smelling herb, somewhat like that of mint; for merly estremed as a corroborant, carminative, and emmenageme.

TANACETUM HORTENSE. See Balsamita mas.

TANACETUM VULGARE. The systematic name of the common tansy. Tanasia; Athanasan; Partherium mas. Tanacetum—folis bipinnatis incicis serratis, of Linnæus. The leaves and flowers of tansy have a strong, not very disagreeable smell, and a bitter somewhat aromatic taste. The virtues of tansy are tonic, stomachic, anthelmintic, emmenagogue, and resolvent. It has been much used as a vermifuge; and testinowies of its efficacy greative by unany restrictable internies of its efficacy are given by many respectable physicians. Not only the leaves, but the seeds have been employed with this intention, and substituted for those of santonicum. We are told by Dr. Clark, that in

Scotland tansy was found to be of great service in various cases of gout; and Dr. Cullen, who afterward was informed of the effect it had produced upon those who had used the help for this purpose, says, "I have known several who have taken it without any advan-And the second who have taken textured any observative lage, and some others who reported that they had been releved from the frequency of their gout." Tansy is also recommended in the hysteria, especially when this disease is supposed to proceed from menstrual ob-

This plant may be given in powder to the quantity of a drachin or more for a dose; but it has been more commonly taken in infusion, or drank in tea.

TANASIA. See Tunacetum.

TANNIN. This, which is one of the immediate principles of vegetables, was first distinguished by Seguin from the gathe acid, with which it had been consequed under the manue of the astrongual. founded under the name of the astringent principle.

He gave it the name of tannin, from its use in the tanning of leather; which it effects by its characteristic
property, that of forming with gelatin a tough insoluble

It may be obtained from vegetables by macerating them in cold water; and precipitated from this solution, which contains likewise gallic acid and extractive matter, by hyperoxygenized muriate of tin. From this pre-cipitate, immediately diffused in a large quantity of water, the oxide of tin may be separated by sulphuret-ted hydrogen gas, leaving the tamm in solution.

Professor Proust has since recommended another methose the properties of a decection of galls by pow-dered carbonate of potassa, washing well the greenish-gray flakes that fall down with cold water, and thying them in a stave. The precipitate grows brown in the air, becomes brittle and shining like a resin, and yet remains soluble in hot water. The tamin in this state,

he says, is very pure.

Sir H. Davy, after making several experiments on different methods of ascertaining the quantity of tannin in astringent intuitions, prefers for this purpose the com-non process of precipitating the tamin by gelatin, but he remarks, that the tamin of different vegetables requires different proportions of gelatin for its satura-tion; and that the quantity of precipitate obtained is influenced by the degree in which the solutions are con

Chenevix observed, that coffee-berries acquired by roasting the property of precipitating gelatin; and Hatchett has made a number of experiments, which Hadriett has made a finance of experiments, which is show that an artificial tannin, or substance having its chief property, may be formed, by treating with nitric acid matters containing charcoal. It is remarkable that this tannin, when prepared from vegetable substances, as dry charcoal of wood, yields, on combustion, products analogous to those of animal matters. From his experiments it would seem, that tannin is, in reality, carbonaceous matter combined with oxygen; and the difference in the proportion of oxygen may occasion the differences in the tammi procured from differences in the tammi procured from different substances, that from catechu appearing to contain most.

Bouillon Lagrange asserts, that taunin, by absorbing

oxygen, is converted into gallic acid.

It is not an unfrequent practice, to administer medi-cines containing tannin in cases of debility, and at the came time to prescribe gelatinous food as mutritious. But this is evidently improper, as the tamin, from its chemical properties, must render the gelatin indigestible. TANSY.

See Tanacetum.

Tansy, wild. See Potentilla.
TANTALUM. The metal, an account of which is given under the article columbic acid. See Columbic

acid and Columbium.

TAPE-WORM. See Tania.

TAPPIOCA. See Jatropha manihot.

TAPPING, See Paracentesis. TA'PSUS BARBATUS. See Verbascum.

TAPOUS NARBATUS. See Perbascum.
TAR. See Pinus sylvestris.
Tar, Barbadoes. See Petroleum barbadense.
Tar-water. A once celebrated remedy, but now neglected more than it deserves. It is made by infusing tar in water, stirring it from time to time, and lastly pouring off the clear liquor now impregnated with the colour and virtues of the tar. It is drick in many elvenic affectious, marticularly of the lunus. corour and virtues of the tar. It is drank in many chronic affections, particularly of the lungs.

TARANTISMUS. (From tarantula, the animal, the bite of which is supposed to be cured only by music.)

The desire of dancing which is produced by the bite of

TARA'NTULA. (From Taranta, a city in Naples, where they abound.) A kind of venomous spider, whose bite is said to be cured by music.

TARA'XACUM. (From rapassu, to alter or change: because it alters the state of the blood.) See Leon-

TARA'XIS. (From ταρασσω, to disturb.) A slight inflammation of the eye.

TA'RCHON SYLVESTRIS. See Achillea ptarmica. TARE. See Ervum.

TARRAS. Terras. A volcanic earth, used as a cement.

TARSI EXTENSOR MINOR. See Plantaris.
TA'RSUS. Tapoos. 1. The instep, or that part of the foot which is between the leg and metatarsus: it is composed of seven bones, viz. the astragalus, os calcis, os naviculare, os cuboides, and three ossa cuneiformia.

2. The thin cartilage situated at the edges of the eyelids to preserve their firmness and shape.

TARTAR. See Tartarum.

Tartar cream of. The popular name of the pulverized supertartrate of potassa

Tartar, emetic. See Antimonium tartarizatum.
Tartar, emetic. See Antimonium tartarizatum.
Tartar, oil of. See Potassa subcarbonatis liquor.
Tartar, regenerated. See Potassa subcarbonas.
Tartar, soluble. See Potassa tartras.
Tartar, spirit of. If the crystals of tartar be distilled by a strong heat, without any additional body, they furnish an empyreumatic acid, called the pyrotartareous acid, or spirit of tartar, and a very fætid empyreumatic acid, called the pyrotartareous acid, or spirit of tartar, and a very fætid empyreumatic acid. reumatic oil.

umatic oil.
Tartar, vitriolated. See Potassæ sulphas.
TARTARIC ACID. Acidum tartaricum; Sal essentiale tartari; Acidum tartari essentiale. Tartareous acid. "The casks in which some kinds of wine are kept become incrusted with a hard substance, tinged with the colouring matter of the wine, and otherwise impure, which has long been known by the name of argal, or tartar, and distinguished into red and white according to its colour. This being purified by solution, filtration, and crystallization, was termed cream, or crystals of tartar. It was afterward discovered, that it consisted of a peculiar acid combined with potassa; and the supposition that it was formed during the fomentation of the wine, was disproved by Boerhaave, Neuman, and others, who showed that it existed ready formed in the juice of the grape. It has likewise been found in other fruits, particularly before they are too ripe; and in the tamarind, sumac, balm, carduus benedictus, and the roots of restharrow, germander, and sage. The separation of tartaric acid from this acidulous salt, is the first discovery of Scheele that is known. He saturated the superfluous acid, by adding chalk to a solution of the supertartrate in boiling water as long as any effer-vescence ensued, and expelled the acid from the prevescence ensued, and expelled the acid from the precipitated tartrate of lime by means of the sulphuric. Or four parts of tartar may be boiled in twenty or twenty-four of water, and one part of sulphuric acid added gradually. By continuing the boiling, the sulphate of potassa will fall down. When the liquor is reduced to one-half, it is to be filtered; and if any more sulphate be deposited by continuing the boiling, the filtering must be repeated. When no more is thrown down, the liquor is to be evaporated to the consistence of a syrup; and thus crystals of tartaric acid, equal to half the weight of the tartar employed, will be obtained.

The tartaric acid may be procured in neces, nated crystals, by evaporating a solution of it. Its taste is very acid and agreeable, so that it may supply the lines of the corp soluble in water. Burnt place of lemon-juice. It is very soluble in water. Burnt in an open fire, it leaves a coaly residuum; in close vessels it gives out carbonic acid and carburetted hydrogen gas. By distilling nitric acid off the crystals, they may be converted into oxalic acid, and the nitric acid passes to the state of nitrous.

To extract the whole acid from tartar, Thenard recommends, after saturating the redundant acid with chalk, to add muriate of lime to the supernatant neutral tartrate, by which means it is completely decomposed. The insoluble tartrate of line being washed with abundance of water, is then to be treated with three-fifths of its weight of strong sulphuric acid, diluted previously with five parts of water. But Fourcroy's process, as

improved by Vauquelin, seems still better. Tartar is treated with quicklime and boiling water in the proportion, by the theory of equivalents, of 100 of tartar to 30 of dry lime, or 40 of the slaked. A caustic magma is obtained, which must be evaporated to dryness, and gently heated. On digesting this in water, a solution of caustic potassa is obtained, while tartrate of lime remains; from which the acid may be separated by the equivalent quantity of oil of vitriol.

According to Berzelius, tartaric acid is a compound of 3.807 hydrogen + 35.980 carbon + 60.213 oxygen = 100; to which result he shows that of Gay Lussac and Thenard to correspond, when allowance is made for a certain portion of water, which they had omitted to estimate. The analysis of tartrate of lead, gives 8.384 for the acid prime equivalent; and it may be made up of 3 hydrogen = 0.375 4.48

4 carbon = 3.0005 oxygen = 5.00035.82 5 oxygen 59.70 100.00 8.375

The crystallized acid is a compound of 8.375 acid -1.125 water = 9.5; or, in 100 parts, 88.15 acid + 11.85

water.
The tartrates, in their decomposition by fire, comport themselves like all the other vegetable salts, except that those with excess of acid yield the smell of caronel when heated, and afford a certain quantity of the pyrotartaric acid. All the soluble neutral tartrates form, with tartaric acid, bitartrates of sparing solubility; while all the insoluble tartrates may be dissolved in an excess of their acid. Hence, by pouring gradually an excess of acid into barytes, strontites, and lime-waters, the precipitates formed at first cannot fail to disappear; while those obtained by an excess of the same acid, added to concentrated solutions of potassa, soda, or ammonia, and the neutral tartrates of these bases, as well as of magnesia and copper, must be permanent. The first are always flocculent; the second always crystal-line; that of copper alone is in a greenish-white powline; that of copper alone is in a greenish-while pow-der. It likewise follows, that the greater number of acids ought to disturb the solutions of the alkaline neu-tral tartrates, because they transform these salts into bitartrates; and, on the contrary, they ought to affect the solution of the neutral insoluble tartrates, which indeed always happens, unless the acid cannot dissolve the base of the tartrate. The order of apparent affini-ties of tartaric acid are, line, barytes, strontites, potassa, soda amenia and magnesia.

soda, ammonia, and magnesia.

The tartrates of potassa, soda, and ammonia are not only susceptible of combining together, but also with the other tartrates, so as to form double, or triple salts. We may thus easily conceive why the tartrates of potassa, soda, and ammonia do not disturb the so-lutions of Iron and manganese; and, on the other hand, disturb the solutions of the salts of barytes, strontites, lime, and lead. In the first case, double salts are formed, however small a quantity of tartrate shall have been employed; in the second, no double salt is formed, unless the tartrate be added in very great

The tartrates of lime and barytes are white, pulve-rulent, and insoluble.

Tartrate of strontian, formed by the double decomposition of muriate of strontian and tartrate of potassa, according to Vauquelin, is soluble, crystallizable, and consists of 52.88 strontian, and 47.12 acid.

That of magnesia forms a gelatinous or gummy

Tartrate of potassa, tartarized kali, and vegetable salt, of some, formerly called soluble tartar, because much more so than the supertartate, crystallizes in oblong squares, bevelled at the extremities. It has a bitterish taste, and is decomposed by heat, as its solution is even by standing some time. It is used as mild purgative.

The supertartrate of potassa is much used as a cool ing and gently opening medicine, as well as in several chemical and pharmaceutical preparations. Dissolved in water, with the addition of a little sugar, and a slice or two of lemon-peel, it forms an agreeable cool-ing drink, by the name of *imperial*: and if an infusion of green balm be used, instead of water, it makes one of, the pleasantest liquors of the kind with which we are acquainted. Mixed with an equal weight of nitre and projected into a red-hot crucible, it detonates, and forms the white flux; treated in the same way, with half its weight of nitre, it forms the black flux; and simply mixed with nitre in various proportions, it is called ras flux. It is likewise used in dying, in hatmatking, in gilding, and in other arts.

The blanching of the crude tartar is aided by boiling its solution with one-twentieth of pipe-clay. According to the analysis of Betzelius, it consists of 70.45 acid + 24.8 potassa + 4.75 water = 100; or, -10.45 potassa + 4.75 water = 100; or, -10.45 potassa + 4.75 water = 100; or, -10.45 potassa + 4.75 water = 100; or,

2 primes acid, = 16.7570.30

potassa, = 5.95 water, = 1.125 24.95 4.75 23.825 100.00

60 parts of water dissolve 4 of bitartrate, at a boiling heat; and only 1 at 60° Fahr. It is quite insoluble in alkohol.

By saturating the superfluous acid, in this supertartrate, with soda, a triple salt is formed, which crystaltrate, with sour, a triple sait is formed, which crystal-lizes in larger regular prisms of eight nearly equal sides, of a bitter taste, efflorescent, and soluble in about five parts of water. It consists, according to Vauquelin, of 54 parts tartrate of potassa and 46 tartrate of soda; and was once in much repute as a purvature by the parts of Packelle and tor Said Scientific. gative, by the name of Rochelle salt, or Sel de Seignette.

The tartrate of soda is much less soluble than this

triple salt, and crystallizes in slender needles or thin

The tartrate of amnonia is a very soluble, bitter salt, and crystallizes easily. Its solution is sponta-

This too forms, with tartrate of potassa, a triple salt, the solution of which yields, by cooling, fine pyramidal or prismatic efflorescent crystals. Though both the neutral salts that compose it are bitter, this is not, but has a cooling taste.

but has a cocling taste.

Take of the supertartrate of potassa, two pounds and a half; three gallons of boiling-hot water; one pound of prepared chalk; one pound of sulphuric acid. Boil the cream of tartar in two gallons of the water, and gradually throw in the chalk, until all effervescence ceases; set the liquor aside, that the tartrate of lime may subside; pour off the liquor, and wash the tartrate of lime repeatedly with distilled water, until it is tastless. The pour on it the sulphuric acid, distincted the superferment of the sulphuric acid, distincted the sulphuric acid. tartrate of lime repeatedly with distilled water, unto a is tasteless. The pour on it the sulphuric acid, di-luted with the remaining gallon of boiling water, and set the whole aside for twenty-four hours, stirring it well now and then. Strain the liquor, and evaporate in a water-bath until crystals form. The virtues of this acid are antiseptic, refrigerant, and diuretic. used in acute fevers, scurvy, and hæmorrhage."- Ure's

TARTARINE. The name given by Kirwan to the

vegetable alkali

TARTARUM. (Tartarum, i, n.; from ταρ/αρος, infernal: because it is the sediment or dregs.) Tartar. 1. The concretion which fixes to the inside of hogsheads containing wine. It is alloyed with much extractive and colouring matter, from which it is purified by decoction with argillaceous earths and subsequent crystallization. By this means it becomes perfectly white, and shoots out crystals of tartar, consisting of a peculiar acid called acid of tartar, imperfectly saturated with potassa; it is therefore a supertartrate of that alkali, which, when powdered, is the cream of tartar of the shops. Its virtues are eccoprotic, diuretic, and refrigerant, and it is exhibited in abdominal physconia, dropsy, inflammatory and bilious fevers, dyspep-sia from rancid or fat substances, bilious diarrhea and colic, hæmorrhoids and obstipation.

2. A name heretofore given to many officinal preparations, containing the acid of tartar; but in consequence of recent changes in the chemical nomenclature, superseded by appellations more expressive of

the respective compositions.

3. The name of the concretion which so frequently incrusts the teeth, and which is apparently phosphate

TARTARUM EMETICUM. See Antimonium tartari-

See Potassæ acetas TARTARUM REGENERATUM. TARTARUM SOLUBILE. See Potassæ tartras.
TARTARUS AMMONIÆ. See Tartras ammoniæ

TARTARUS CHALYBEATUS. See Ferrum tartari

TARTRAS. (Tartras, atis, m; the tartaric being

its acid base.) A tartrate, or salt, formed by the com-bination of tartaric acid with salifiable bases; as tartrate of soda, potassa, &c.

TARTRAS AMMONIE. Alkali volatile tartarizatum, of Bergman. Sal ammoniacum tartareum; Tartarus ammoniac. A salt composed of tartaric acid and am-monia; its virtues are diaphoretic, diuretic, and deobstruent. It is prescribed in fevers, atonic exanthemata, catarrh, arthritic and rheumatic arthrodynia, struent. hysteric spasms, &c.

TARTRAS POTASSÆ. See Potassæ tartras.
TARTRAS POTASSÆ ACIDULUS. Cream of tartar.

See Potassa supertartras.

TARTRAS POTASSÆ ACIDULUS FERRATUS. Globuli martiales; Tartarus chalybeatus; Mars solubilis; Ferram potable. Its virtues are adstringent. It is principally used externally in the form of fomentations or bath in contusions, distortions, and lux-

TARTRAS POTASSÆ ACIDULUS STIBIATUS. See Antimonium tartarizatum.

TARTRAS SODE. See Soda tartarizata.
TASTE. Gustus. "Savours are only the impression of certain bodies upon the organ of taste.

which produce it are called sapid

It has been supposed that the degree of sapidity of a body could be determined by that of its solubility; but certain bodies, which are insoluble, have a very strong taste, while other bodies very soluble have scarcely any. The sapidity appears to bear relation to the chemical nature of bodies, and to the peculiar efforts which they produce upon the animal economy

Tastes are very numerous, and very variable. have been numerous endeavours made to class them, though without complete success; they are better unthough without complete success; they are better this derstood, however, than the odours, no doubt owing to the impressions received by the sense of taste being less fugitive than those received by the smell. Thus

less rugitive than those received by the smell. Thus we are sufficiently understood, when we speak of a body having a taste that is bitter, acid, sour, sweet, &c. There is a distinction of tastes which is sufficiently established, it being founded on the organization: that of agreeable and disagreeable. Animals establish it instinctively. This is the most important distinction; for those things which have an agreeable taste are generally useful for nutrition, while those whose sa-

generally useful for nutrulon, while those whose savour is disagreeable, are, for the most part, hurtful.

Apparatus of taste.—The tongue is the principal organ of taste; however, the lips, the internal surface of the cheeks, the palate, the teeth, the volum pendulum palati, the pharynx, asophagus, and even the stomach, are susceptible of receiving impressions by

contact of sapid bodies

The salivary glands, of which the excretory ducts open into the mouth; the follicles which pour into it the mucus, which they secrete, have a powerful effect in forming the taste. Independently of the mucous follicles that the superior surface of the tongue presents, and which form upon it fungous papilla, there are also little inequalities seen, one sort of which, very are areo fine inequanties seem, one sort of which, very numerous, are called rellows payible; the others, less numerous, and disposed on two rows on the sides of the tongue, are called conical papilla.

All the nerves with which those parts are provided

All the nerves with which those parts are provided that are intended to receive the impressions of sapid bodies may be considered as belonging to the apparatus of taste. Thus the inferior maxillary nerves, many branches of the superior, among which it is necessary to notice the threads which proceed from the sphenopalatine ganglion, particularly the naso-palatine nerve of Scarpo, the nerve of the minth pair, glosso pharyngens, appear to be employed in the exercise of taste.

The lingual nerve of the fifth pair is that which anatomists consider the principal nerve of taste; and as a reason they say that its threads are continued into the

cillors and conical papilla of the tongue.

Mechanism of taste.—For the full exercise of taste,

the mucous membrane which covers the organs of it must be perfectly uninjured; it must be covered with mucous fluid, and the sahva must flow freely in the mouth. When the mouth becomes dry, the powers of taste cannot be excited

It is also necessary that these liquids undergo no change: for if the mucous become thick, yellow, and the saliva acid, bitter, &c., the taste will be exerted but very imperfectly.

Some authors have assured us that the papilla of

the tongue become really erect during the time that the | lachrymalia; from thence they are propelled through taste is exerted. This assertion I believe to be entirely without foundation.

It is quite enough that a body be in contact with the organs of taste, for us to appreciateits savour immediately; but if it is solid, in most cases it is necessary to dissolve in the saliva to be tasted; this condition is not

necessary for liquids and gases.

necessary for inquits and gases.

There appears to be a certain chemical action of sapid bodies upon the epidermis of the mucous membrane of the mouth; it is seen evidently at least in some, as vinegar, the mineral acids, a great number of salts, &c. In these different cases the colour of the epidermis is changed, and becomes white, yellow, &c. By the same causes, like effects are produced upon dead bodies. Perhaps to this sort of combination may be attributed the different kinds of impressions made by sapid bodies, as well as the variable duration of those impressions.

Hitherto no one has accounted for the faculty possessed by the teeth of being strongly influenced by cersessed by the teeth of being strongly influenced by certain apple bodies. According to the researches of Miel, a distinguished dentist of Paris, this effect ought to be attributed to imbibition. The researches of Miel prove that the teeth imbibe very quickly liquids with which they are placed in contact. Different parts of the mouth appear to possess different degrees of sensibility for sapid bodies; for they act sometimes on the tongue, on the guns, on the teeth; at other times they have an exhibite action to the product of the place and exhibite actions the product of the place and exhibite actions the product of the place and exhibite actions the place and exhibite actions the product of the place and the place and exhibite actions the product of the place and exhibite actions the product of the place and exhibite actions the product of the place and exhibite actions the place and the place are placed to the place and the p have an exclusive action on the palate, on the pharynx, Some bodies leave their taste a long time in the ce. Some nomes reave their disters rong time in the mouth; these are particularly the anomatic bodies. This after-taste is sometimes felt in the whole mouth, sometimes only in one part of it. Bitter bodies, for example, leave an impression in the pharynx; acids upon the lips and teeth peppermit leaves an impression which exists both in the mouth and pharynx.

Tastes, to be completely known, ought to remain some time in the mouth; when they traverse it rapidly, they leave scarcely any impression; for this reason we swallow quickly those bodies which are disagreeable to us; on the contrary, we allow those that have an agreeable sayour to remain a long time in the mouth.

When we taste a body which has a very strong and When we taste a body which has a very strong and pertuacions taste, such as a vergetable acid, we become insensible to others which are feeble. Threebservation has been found valuable in medicine, in administering disagreeable drugs to the sick. We are capable of distinguishing a number of tastes at the same time, as also their different degrees of intensity; this is used by chemists, tasters of wine, &c. By this means we arrive sometimes at a tolerably exact knowledge of the charged varies of basics. chemical nature of bodies; but such delicacy of taste is not acquired until after long practice.

Is the lingual nerve that which is essential to taste? Nothing is known which can make us attribute this

property entirely to it.

The choice of food depends entirely on the taste; joined to smell, it enables us to distinguish between substances that are hurtful and those that are useful. It is this sense which gives us the most correct know-ledge of the composition of chemical bodies."

TAXIS. An operation, by which those parts which have quitted their natural situation are replaced by the hand without the assistance of instruments, as in reducing hernia, &cc

TEAR. Lachryma The limpid fluid secreted by the lachrymal glands, and flowing on the surface of

The organ which secretes this liquid is the lachry mal gland, one of which is situated in the external canthus of each orbit, and emits six or seven excretory ducts. which open on the internal surface of the upper eyelid above its tarsus, and pour forth the tears. The tears have mixed with them an arterious roscid vapour, which exhales from the internal surface of the eyelids. and external of the tunica conjunctiva, into the eye Perhaps the aqueous humour also transudes through the pores of the cornea on the surface of the eye. certain part of this aqueous fluid is dissipated in the air; but the greatest part, after having performed its office, is propelled by the orbicular muscle, which so closely constringes the eyelid to the ball of the eye as to leave no space between, unless in the internal angle, where the tears are collected. From this collection the tears are absorbed by the orifices of the puncta lachrymalia; from thence they are propened in the lachrymal sae, and flow through the ductus nasalis into the cavity of the nosthrough the ductus nasalis into the cavity of the lachry mal sac appears to be formed of longitudinal and transverse muscular fibres; and its three orifices furnished with small sphincters, as the spasmodic contriction of the puncta lachrymalia proves, if examined with a probe.

The tears have no smell but a saltish taste, as people who cry perceive. They are of a transparent colour and aqueous consistence.

The quantity, in its natural state, is just sufficient to moisten the surface of the eye and eyelids; but from sorrow, or any kind of stimulus applied to the surface of the eye, so great is the quantity of tears secreted that the puncta lachrymalia are unable to absorb them Thus the greatest part runs down from the internal angle of the eyelids, in the form of great and copious drops upon the cheeks. A great quantity also deseends, through the lachrymal passages, into the nostriks; hence those who cry have an increased discharge from the nose.

Use of the tears.-1. They continually moisten the surface of the eye and eyelids, to prevent the pellucid cornea from drying and becoming opaque, or the eye from concreting with the eyelids. 2. They prevent that pain, which would otherwise arise from the friction of the cyclids against the bulb of the eye from continually winking. 3. They wash and clean away the dust of the atmosphere, or any thing acrid that has fallen into the eye. 4. Crying unloads the head of

TECTUS. Covered: applied as opposed to nudus, or naked; as to the seeds of the angiosperm plants. TETTIL (Dens., a tooth; quasi clens, from cdo, to cat.) Small bones fixed in the alycoil of the upper and under jaw. In early infancy Nature designs us for the softest aliment, so that the gums alone are then sufficient for the purpose of manducation; but as we advance in life, and require a different food, she wisely provides us with teeth. These are the hardest and whitest of our bones, and, at full maturity, we usually find thity two in both jaws; viz. sixteen above, and as many below. Their number varies indeed in different subjects; but it is seldem seen to exceed thirty-two, and it will very rarely be found to be less than twenty eight.

Each tooth may be divided into two parts; viz. its body, or that part which appears above the gums; and its fangs or root, which is fixed into the socket. The boundary between these two, close to the edge of the gum, where there is usually a small circular depression, is called the neck of the tooth. The teeth of each jaw are commonly divided into three classes; but before each of these is treated of in particular, it will be right

to say something of their general structure.

Every tooth is composed of its cortex or enamel, and its internal bony substances. The enamel, or, as it is sometimes called, the vitreous part of the tooth, is a very hard and compact substance, of a white colour, and peculiar to the teeth. It is found only upon the body of the tooth, covering the outside of the bony or internal substance. When broken it appears fibrous internal substance. When broken it appears fibrous or structed; and all the structure are directed from the car-cumference to the centre of the tooth. This enamel is thickest on the grinding surface, and on the cutting edgesor points of the teeth, becoming gradually thinner as it approaches the neck, where it terminates insensibly. Some writers have described it as being vascubut it is certain that no injection will ever reach this substance, that it receives no tinge from madder, and that it affords no appearance of a circulation of fluids. The bony part of a tooth resembles other bones in its structure, but is much harder than the most compact part of bones in general. It composes the inner part of the body and neck, and the whole of the root of the tooth. This part of a tooth, when completely formed, does not, like the other bones, receive a tinge from madder, nor do the minutest injections penetrate into its substance, although many writers have asserted the contrary. Mr. Hunter has been, therefore, induced to deny its being vascular, although he is aware that the teeth, like other bones, are liable to swellings, and that they are found anchylosed with their sockets. supposes, however, that both these may be original formations; and, as the most convincing proof of their not being vascular, he reasons from the analogy be-tween them and other bones. He observes, for in-stance, that in a young animal that has been led with madder, the parts of the teeth which were formed before it was put on madder diet will appear of their natural colour, but that such parts as were formed while the animal was taking the madder, will be of a red colour; whereas, in other boncs, the hardest parts are susceptible of the dye, though more slowly than the parts which are growing. Again he tells us, that if you leave off feeding the animal with madder a considerable time before you kill it, you will find the above appearances still subsisting, with this addition, that all the parts of the teeth which were formed after leaving off the madder will be white. This experiment proves that a tooth once tinged does not lose its colour; whereas other bones do (though very slowly) return again to their natural appearance; and, as the dye in this case must be taken into the labil by absorbents, he is led to suspect that the teeth are without absorbents. bents as well as other vessels. These arguments are very ingenious, but they are far from being satisfactory. The facts adduced by Mr. Hunter are capable of a different explanation from that which he has given them; and when other facts are added relative to the same subject, it will appear that this bony part of a tooth has a circulation through its substance, and even lymphatics, although, from the hardness of its structure, we are unable to demonstrate its vessels. The facts which may be adduced are, 1st, We find that a tooth recently drawn and transplanted into another socket, becomes as firmly fixed after a certain time. and preserves the same colour as the rest of the set whereas a tooth that has been long drawn before it is transplanted, will never become fixed. Mr. Hunter, indeed, is aware of this objection, and refers the suc cess of the transplantation, in the first instance, to the living principle possessed by the tooth, and which he thinks may exist independent of a circulation. But however applicable such a doctrine may be to zonphytes, it is suspected that it will not hold good in man and others of the more perfect animals: and there does and others of the mode perfect cuminas. In the case of a transplanted tooth, there is a real union by vessels, 2dly, The swellings of the fangs of a tooth, which in many instances are known to be the effects of disease, and which are analogous to the swelling of other bones. are a clear proof of a similarity of structure, especially as we find them invested with a periosteum. 3dly, it is a curious fact, though as yet perhaps not generally known, that, in cases of phthisis pulmonalis, the teeth become of a milky whiteness, and, in some degree transparent. Does not this prove them to have absor

Dents?

Each tooth has an inner cavity, which, beginning by a small opening at the point of the fang, becomes larger and terminates in the body of the toom. This cavity is supplied with blood-vessels and nerves, which pass through the small hole in the root. In old people this hole sometimes closes, and the tooth becomes then in-

The teeth are invested with periosteum from their fangs to a little beyond their bony sockets, where it is attached to the gums. This membrane seems to be common to the tooth which it encloses, and to the sockets common to the toolt which it encloses, and to the sockets which it lines. The teeth are likewise secured in their sockets by a red substance called the gams, which every where covers the alveolar processes, and has as many perforations as there are teeth. The gams are exceedingly vascular, and have something like carrilaginous hardness and clasticity, but do not seem to have much sensibility. The gums of infants, which perform the offices of teeth, have a hard ridge extend-The gums of infants, which ing through their whole length; but in old people, who have lost their teeth, this ridge is wanting. classes into which the teeth are commonly divided are, incisores, canini, and molares or grinders.

The incisores are the four teeth in the forepart of

each jaw; they derive their name from their use in di-viding and cutting the food in the manner of a wedge, and have each of them two surfaces, which meet in a sharp edge. Of these surfaces, the anterior one is convex, and the posterior one somewhat concave. upper jaw they are usually broader and thicker, especially the two middle ones, than those of the under jaw, over which they generally fall by being placed a little obliquely

The canini or cuspidati are the longest of all the teeth, deriving their name from their resemblance to a dog's tusk. There is one of these teeth on each side of dog's task. There is one of these technologies and the incisores, so that there are two in each jaw. They are the longest of all the techn. Their tangs differ from that of the incisores only in being much larger, and their shape may be easily described to be that of an incisor with its edge worn off, so as to end in a narrow point instead of a thin edge. The canini not being calculated for dividing like the incisores, or for grinding, seem to be intended for laying hold of substances. Hunter remarks of these teeth, that we may trace in them a similarity in shape, situation, and use, from the most imperfect carmivorous animal, which we believe to be the human species, to the lion, which is the most perfectly carnivorous. .

The molares or granders, of which there are ten n each jaw, are so called, because from their size and figure they are calculated for grinding the food. The agare they are calculated for grinding the food. The camini and incisores have only one fang, but the last three grinders in the under jaw have constantly two fangs, and the same teeth in the upper jaw three fangs. Sometimes these fangs are divided not two points near their base, and each of these points has, perhaps, been sometimes considered as a distinct fang. The grinders sometimes considered as a distinct rang. The grinders likewise differ from each other in their appearance. The first two on each sine, which Mr. Hunter appears to have distinguished very properly by the name of biconsiders, seem to be of a middle nature between the incisores and grinders; they have in general only one reot, and the body of the tooth terminates in two points, of which the anterior one as the highest, so that the tooth has in some measure the appearance of one of the canni. The two grinders beyond these, on each side, are much larger. Their body forms almost a square with rounded angles; and their grinding surface square with founded angles; and their grinding surface has commonly five points or protuberances, two of which are on the inner, and three on the outer part of the tooth. The last grinder is shorter and smaller than the rest, and, from its coming through the guns later than the rest, and sometimes not appearing till late in life, is called dons superition. The variation in the number of teeth usually depends on these dentes sapi-

Having thus described the appearance of the teeth traving this acceptage the appearance of the teem in the adult; the manner of their formation and growth in the feetus is next to be considered. We shall find that the aveolar process, which begins to be formed at a very early period, appears about the fourth month only as a shallow longitudinal groove, divided by sligh ridges into a number of intermediate depressions which are to be the future alveoli or sockets. These de pressions are at first tilled with small pulpy substances included in a vascular membrane; and these pulpy substances are the rudiments of the teeth. As these substances are the rudiments of the teeth. As these advance in their growth, the advocance practically more completely formed. The surface of the pulp first begins to harden: the ossification proceeding from one or more points, according to the kind of tooth that is to be formed. Thus in the metsores and canning it begins from one point; in the benespiete, from two points, corresponding with the future shape of those beath, and their manners from the first process. teeth; and in the molares from four or five points. As the ossification advances, the whole of the pulp is gradually covered with bone, excepting its under surface, and then the lang begins to be formed. Soon after the formation of this bony part, the tooth begins to be incrusted with its cananel; but in what manner this is deposited we are as yet unable to explain.—Perhaps the vascular membrane which encloses the pulp, may serve to secrete it. It gradually crystallizes upon the surface of the bony part, and continues to increase in thickness, especially at the points and basis of the tooth, till ness, especially at the points and basis of the tooth, till some time before the tooth begins to pass through the gun; and when this happens, the enamel seems to be as hard as it is after ward, so that the air does not ap-pear to have the least effect in handening it, as has been sometimes supposed. While the enamel is thus form-ing, the lower part of the pulp is gradually lengthened out and ossified, so as to form the fang. In those teeth which are to have more than one fang, the ossification begins at different parts of the pulp at one and the same time. In this manner are formed the incisores, the canini, and two molares on each side, making in the whole twenty teeth, in both jaws, which are sufficient for the purposes of manducation early in life. As the fangs of the teeth are formed, their upper part is gradu-

Fff2

ally pushed upwards, till at length, about the seventh, I no longer meet in the forepart of the mouth, the chin eighth, or ninth month after birth, the incisores, which are the first formed, begin to pass through the gum. The first that appears is generally in the lower jaw. The canini and molares not being formed so soon as the incisores, do not appear till about the twentieth or twenty-fourth month. Sometimes one of the canini, but more frequently one of the molares, appears first.

The danger to which children are exposed, during the time of dentition, arises from the pressure of the teeth in the gum, so as to irritate it, and excite pain and inflammation. The effect of this irritation is, that the gum wastes, and becomes gradually thinner at this part, till at length the tooth protrudes. In such cases, therefore, we may, with great propriety, assist nature by cutting the gum. These twenty teeth are called temporary or milk teeth, because they are all shed between the age of seven and fourteen, and are supplied by others of a firmer texture, with large fangs which Dy others of a firmer texture, with large langs which remain till they become affected by disease, or fall out in old age, and are therefore called the permanent or adult test. The rudinents of these adult test begin to be formed at different periods. The pulp of the first adult incisor, and of the first adult grinder, may be perceived in a fectus of seven or eight months, and the ossification begins in them about six months after birth. ossification begins in them about six months after birth. Soon after birth the second incisor, and canine tooth on each side, begin to be formed. About the fifth or sixth year the first bicuspis, and about the seventh the second bicuspi begin to ossify. These bicuspides are destined to replace the temporary grinders. All these permanent teeth are formed in a distinct set of alveoli; so that it is not by the growing of one tooth under another in the same socket, that the uppermost tooth is gradually pushed out, as is commonly imagined; but the temporary teeth, and those which are to succeed them, being placed in separate alveoli, the upper sockets gradually disappear, as the under ones increase in size, till at length the teeth they contain, having no longer any support, consequently tall out. But, besides these twenty teeth, which succeed the temporary ones, there are twelve others to be added to make up the number These twelve are three grinders on each side in both jaws; and in order to make room for this addition, we find the jaws grow as the teeth grow, so that they appear as completely filled with twenty teeth, as they are afterward with thirty-two. Hence, in children the face is flatter and rounder than in adults. Hence, in The first adult grinder usually passes through the gum about the twelfth year; the second, which begins to be formed in the sixth or seventh year, cuts the gum about the seventeenth or eighteenth; and the third, or dens sapientia, which begins to be formed about the twelfth sapientia, which begins to be formed about the twenth year, passes through the guin between the age of twenty and thirty. The dentes sapientia have, in some instances, been cut at the age of forty, fifty, sixty, and even eighty years; and it sometimes bappens, that they do not appear at all Sometimes likewise it happens that a third set of teeth appear about the age of sixty or seventy. Diemerbroek tells us that he himself, at the age of fifty-six, had a fresh canine tooth in the place of one he had lost several years before; M. du Fay saw two incisores and two canini cut the gum in a man aged eighty-four; Mr. Hunter has seen two foreteeth shoot up in the lower jaw of a very old person; and an shoot up in the lower jaw of a very on person; and an account was lately published of a man who had a complete set of teeth at the age of sixty. Other instances of the same kind are to be met with in authors. The circumstance is curious, and from the time of life at which it takes place, and the return of the catamenia, which sometimes happens to women at the same age. it has been very ingeniously supposed, that there is some effort in nature to renew the body at that period.

The teeth are subject to a variety of accidents. Sometimes the gums become so affected as to occasion them to fall out, and the teeth themselves are frequently rendered carious by causes which have not hitherto been satisfactorily explained. The disease usually begins on that side of the tooth which is not exposed to pressure, and gradually advances till an opening is pressure, and gradually advances and in made into the cavity: as soon as the cavity is exposed, the tooth becomes liable to considerable pain, from the air coming into contact with the nerve. Besides these accidental means by which the teeth are occasionally

projects forwards, and the face being rendered much shorter, the whole physiognomy appears considerably altered. Having thus described the formation, structure, growth, and decay of the teeth, it remains to speak of their uses; the chief of which we know to be in mastication. And here we cannot help observing the great variety in the structure of the human teeth, which fits us for such a variety of food, and which, when compared with the teeth given to other animals, may in some measure enable us to explain the nature of aliment for which man is intended by Nature. Thus, in ruminating animals, we find incisores only in the lower jaw, for cutting the grass, and molares for grinding it; in graminivorous animals, we see molares alone and in carnivorous animals, canine teeth for catching and in cannot are at their prey, and incisores and molares for cutting and dividing it. But, as man is not designed to catch and kill his prey with his teeth, we observe that our canni are shaped differently from the fangs of beasts of prey, in whom we find them either longer than the rest of the teeth, or curved. The incisores likewise are sharper in those animals than in man. Nor are the molares in the human subject similar to the molares of camivorous animals; they are flatter in man than in these animals; and, in the latter, we likewise find them sharper at the edges, more calculated to cut and tear the food, and by their greater strength, capable of breaking the bones of animals. From these circumstances, therefore, we may consider man as partaking of the nature of these different classes; as approaching more to the carnivorous than to the herbivorous tribe of animals; but upon the whole, formed for a mixed aliment, and fitted equally to live upon flesh and upon vegetables. Those philosophers, therefore, who would confine a man wholly to vegetable food, do not seem to have studied nature. As the molares are the last teeth that are formed, so they are usually the first that fell out; this would seem to prove, that we require the same kind of aliment in old age as in infancy. Besides the use of the teeth in mastication, they likewise serve a secondary purpose, by assisting in the articulation of

TEETHING. Sec Dentition and Teeth.

TEGULA HIBERNICA. See Lapis hibernicus. TEGUMENTS. Under the term common integuments, anatomists comprehended the cuticle, rete mucosum, skin, and adipose membrane, as being the covering to every part of the body except the nails. See Skin

TE'LA. A web of cloth. The cellular membrane is so called from its likeness to a fine web. lular membrane.

TELA CELLULOSA. See Cellular membrane. TELE PHIUM. (Because it heals old ulcers, such

as that of Telephus, made by Ulysses.) See Sedum telephium. TELESIA.

Sapphire

TELLURETTED HYDROGEN. A combination of tellurium and hydrogen. To make this compound, hydrate of potassa and oxide of tellurium are ignited with charcoal, and the mixture acted on by dilute sulphuric acid, in a retort connected with a mercurial pneumatic apparatus. An elastic fluid is generated. consisting of hydrogen holding tellurium in solution. It is possessed of very singular properties. luble in water, and forms a claret coloured solution. It combines with the alkalies. It burns with a bluish flame, depositing oxide of tellurium. Its smell is very strong and peculiar, not unlike that of sulphuretted hydrogen. This clastic fluid was discovered by Sir H. Davy, in 1809. TELLURIC ACID.

Acidum telluricum. oxide of tellurium combines with many of the metallic oxides, acting the part of an acid, and producing a class

of compounds which have been called tellurates.

TELLURIUM The name given by Klaproth to
a metal extracted from several Transylvanian ores.

Pure tellurium is of a tin-white colour, verging to lead-gray, with a high metallic lustre; of a foliated fracture; and very brittle, so as to be easily pulverized. Its sp. gr. is 6.115. It metts before ignition, requiring little higher heat than lead, and less than antimony; affected, old age seldom fails to bring with it sure and When cooled without agitation, its surface has a crysnatural causes for their removal. The alveoli fill up, and the teeth consequently fall out. The gums then it burns with a vivid blue light, greenish on the edges. and, according to Gmelin, is as volatile as arsenic. When cooled without agitation, its surface has a crys-

and is dissipated in grayish-white vapours, of a pungent smell, which condense into a white oxide. This gent smell, which condense into a white oxide. oxide heated on charcoal is reduced with a kind of oxplosion, and soon again volatilized. Heated in a glass retort, it fuses into a straw-coloured striated mass. Heated in a

It appears to contain about 16 per cent. of oxygen.

Tellurium is oxidized and dissolved by the principal acids. To sulphuric acid it gives a deep purple colour. Water separates it in black flocculi, and heat throws

it down in a white precipitate.

With nitric acid it forms a colourless solution, which

remains so when dituted, the crystals by evaporation. The muriatic acid with a small portion of nitric, forms a transparent solution, from which water throws the companies submuriate. This may be redissolved. almost wholly by repeated affusions of water. hol likewise precipitates it.

Sulphuric acid, diluted with two or three parts of water, to which a little nitric acid has been added, dissolves a large portion of the metal, and the solution

is not decomposed by water.

is not decomposed by water.

The alkalies throw down from its solutions a white precipitate, which is soluble in all the acids, and by an excess of the alkalies or their carbonates. They are not, precipitated by prussiate of potassa. Tincture of not precipitated by prussiate of potassa. Tincture of galls gives a yellow flocculent precipitate with them. Tellurium is precipitated from them in a metallic state

by zinc, iron, tin, and antimony

Tellurium fused with an equal weight of sulphur, in a gentle heat, forms a lead-coloured striated sulphuret. Alkaline sulphurets precipitate it from its solutions of a brown or black colour. In this precipitate, either the metal or its oxide is combined with sulphur. Each of these sulphurets burns with a pale blue flame, and white smoke. Heated in a retort, part of the sulphur is sublimated, carrying up a little of the metal with it.

It does not easily amalgamate with quicksilver.

TEMPERAMENTUM. (From tempero, to mix together.) The peculiar constitution of the lumours.

Cemperaments have been variously distinguished: the division most generally received is into the sanguineous.

philographic, choleric, and melancholic.

TEMPERATURE. A definite degree of sensible heat, as measured by the thermometer. Tims we say, a high temperature, and a low temperature, to denote a manifest intensity of heat or coid; the temperature of builting water, or 2129 Fahr.; and a range of temperature, to designate the intermediate points of heat between two distant terms of thermometric indication.

TEMPLE. (Tempora, um, n.; and tempus, oris, n.)
The lateral and flat parts of the head above the ears.
TEMPORAL. (Temporalis; from tempus.) Be-

longing to the temple.

LEMPORAL ARTERY. Arteria temporabis. A branch of the external carotid, which runs on the temples, and

gives off the frontal artery.

TEMPORAL BONE. Os temporis. Two bones situated one on each side of the head, of a very irregular figure. They are usually divided into two parts, one of which, from the manner of its connexion with the neighbouring bones, is called os squamosum, and the other os petrosum, from its irregularity and hardness.

In both these parts there are processes and cavities to be described. Externally there are three processes; one anterior, called zygomatic process, which is stretched forwards to join with the os malæ, and thus forms the bony jugum under which the temporal mus cle passes; one posterior, called the mustoid or mamillary process, from its resemblance to a nipple; and one inferior, called the styloid process, from its shape, which is said to resemble that of the ancient stylus scriptorius. In young subjects, this process is united with the bone by an intermediate cartilage, which sometimes, even in adults, is not completely ossified.
Three muscles have their origin from this process, and horrow half of their names from it, viz. stylo-glossus, stylo hyoideus, and stylo-pharyngeus. Round the root of this process there is a particular rising of the os petrosum, which some writers describe as a process, and, from its appearance with the styloid, have named it naginalis. Others describe the semicircular ridge of the meatus auditorius externus as a fifth process, to which they give the name of auditory. The depressions and cavities are, I. A large fossa, which serves for the articulation of the lower jaw; it is situated between the zygomatic auditory and vaginal processes,

and is separated in its middle by a fissure, into which and is separated in its middle by a listile, into which the ligament that secures the articulation of the lower jaw with this bone is fixed. The forepart of this cavity, which seceives the condyle of the jaw, is covered with cartilage; the back part only with the periosteum. 2. A long fossa behind the mastoid process, where the digastric muscle has its origin. 3. The meatus auditorius externus, the name given to a large funnel-like canal that leads to the organ of hearing. funnel-like canal that leads to the organ of hearing.

4. The stylo-mastoid hote, so called from its situation between the styloid and mastoid processes. It is likewise called the aqueduct of Fallopius, and affords a passage to the portio dura of the auditory, or seventh pair of nerves.

5. Betow and on the forepart of the last foramen, we observe part of the jugular fossa, a thimble-like cavity, in which the beginning of the internal jugular vein is lodged.

6. Before and a little above this fossa is the orifice of a foramen, through which pass the internal cavoid artery and two files. which pass the internal carotid artery and two fila-ments of the intercostal nerve. This conduit runs first upward and then forward, forming a kind of elbow, and terminates at the end of the os petrosum. At this part of the ossa temporum we observe the orifice of a canal which runs outwards and backwards or a canal which rule distributed and backwards in a horizontal direction, till it terminates in a cavity of the ear called tympanum. This canal, which in the recent subject is continued from the ear to the mouth, is called the Eustachian tube. 8. Asmall hole behind the mastoid process, which serves for the trans mission of a vein to the lateral sinus. But this, like other foramina in the skull that serves only for the transmission of vessels, is neither uniform in its situation, nor to be met with in every subject. The internal surface of these bones may easily be divided into three parts. The first, uppermost, and largest is the squanous part, which is slightly concave from the impression of the brain. Its semicircular edge is sloping, so that the extended leaf at the large. sion of the brain. Its semicircular edge is sloping, so that the external lamella of the bone advances farther than the internal, and thus rests more securely on the parietal bones. The second and middlemost, which is the petrous part of the bone, forms a hard, craggy prothe petrous part of the bone, forms a hard, craggy pro-tuberance, nearly of a triangular shape. On its pos-terior side we observe a large foramen, which is the meatus auditorius internus; it receives the double nerve of the seventh part, viz. the portio dura and portio mollis of that pair. About the middle of its anterior surface is a small foramen, which opens into the aqueduct of Pailopius, and receives a twig of the portio dura of the seventh pair of nerves. This fora-men having been first described by Pailopius, and by him named histas, is sometimes called kiatus Fallopiu. Besides these, we observe other smaller holes for the Besides these, we observe other smaller holes for the transmission of blood-vessels and nerves. Below this craggy protuberance is the third part, which, from its shape and connexion with the os occipitis by means of the lambdoidal suture, may be called the lambdoidal angle of the temporal bone. It is concave from the impression of the brain; it helps to form the posterior and inferior fosse of the skull, and has a considerable furrow, in which is lodged part of the lateral sinus. The temporal bones differ a little in their structure from the other bones of the cranium. At their upper parts they are very thin, and almost without diplos, but helow they have great strength and thickness. In the factus, the thin upper part, and the lower craggy part, are separated by a cartilaginous substance; there is no appearance either of the masteid or styleid are. shape and connexion with the os occipitis by means of is no appearance either of the mastoid or styloid processes, and, instead of a long funnel-like meatus auditorius externus, there is only a smooth bony ring, within which the membrana tympani is fastened. Within the petrous part of these bones there are several cavities, processes, and bones, which belong altogether to the ear, do not enter into the formation of the cranium, and are described under the article Ear. The ossa temporum are connected by suture with the ossa parictalia, the os occipitis, the ossa malarum, and the os sphenoides, and are articulated with the lower

TEMPORA'LIS. (From tempus, the temple.) 1 See Temporal.

2. A muscle of the lower jaw, situated in the temple. Arcardi-temporo-maxillaire, of Dumas. Crotaple. Jordana: Cross-philosophi terior surface of the os malæ; from all the temporal pro-

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cess of the sphenoid bone; and sometimes from a ridge | places a resinous juice is collected from under the at the lower part of this process. This latter portion, bark, called Lachryma abiegna, and Oleum abietinum. at the lower part of this process. This latter portion, however, is often common to this muscle and the pterygoidens externus. It is of a semicircular shape, and its radiated fibres converge, so as to form a strong middle tendon, which passes under the jugum, and is inserted into the coronoid process of the lower jaw, to which it adheres on every side, but more particularly at its forepart, where the insertion is continued down to the body of the bone. This muscle is covered by a pretty strong fascia, which some writers have erroneously described as a part of the aponeurous of the occipito frontalis. This fascia adheres to the bones, round the whole circumference of the origin of the muscle, and, descending over it, is fixed below to the ridge where the zygomatic process begins, just above the meatus auditorius, to the upper edge of the zygomatic process itself, and anteriorly to the os male. This tacca serves as a defence to the muscles, and likewise gives origin to some of its fleshy fibres. principal use of the temporal muscle is to draw the lower jaw upwards, as in the action of biting; and as it passes a little forwards to its insertion, it may at the same time pull the condyle a little backwards, though not so much as it would have done if its fibres had passed in a direct line from their origin to then insertion, because the posterior and lower part of the muscle passes over the root of the zygomatic process, as over a policy

TENDO. See Musch.

TENDO ACHILLIS. See tehillis tendo TENDON (From tendo, to stretch.) and distening extremity of a muscle. See Muscle.

TENDRIL See Corns.
TENESMUS (From recess, to constringe) cuted from the perception of a continual constitution or based state of the part.) A continual inclination to

TUNNANTITE A valuely of gray copper ore found in Comwall, in copper veins, that intersect grante and day siste, associated with copper parties It is of a lead gray or iron black coloni, and consists

or copies, sulphin, aisenic, iron, and silica. PL NSOR (From tendo, to storich) the office of which is to extend the part to which it is

Pen-or Palati. See Circumferus.

Toxon Tympasi. Internus nures, of Douglas and Compa. Internus mullei, of Winslow, and sulprugacraite in, of Dumas. A muscle of the ear, which pids the madeus and the membrane of the tympanum to-wards the petrous portion of the temporal bone, by which the membrana tympani is made more concave and tense.

Tensor vagine femoris. Fusciales. Membra-nosis, of Douglas. Membranus vel fascia lata, of Cowper; and Hio apparential for Dunas. Musculus apparentists, vel fascia lata, of Winslow. A misces situated on the outside of the High, which the abduction of the thigh, and somewhat in its rota-tion rewards. It arises by a narrow, tendinous, and feshy beginning from the external part of the anterior

A roll of lint for dilating openings, sinuses,

c. See Spangia praparate. TENTO RIUM. A proces A process of the dura mater. separating the cerebrum from the cerebellum. It exte ids from the internal horizontal spine of the occipital hone, directly forwards to the sella furcica of the sphe-

TERLIBE'LLA. (Diminutive of terebra, a piercer or gimlet.) A trepan or instrument for sawing out cir-

TEREB! NTHINA. (From τεριβείτθος, the turpentine-tree.) Turpentine, the produce of pine-trees. See

TEREBINTHINA ARGENTORATENSIS. Strasburg turpentine. This species is generally more transparent and less tenacious than either the Venice or Chio turpentines. It is of a vellowish blown colour, and of a cept the Chio. It is extracted in several parts of Germany, from the red and silver fir, by cutting out successively narrow strips of the back. In some TEREBINTHINA CANADENSIS. Canada turpentine.

See Pinus balsamea.

TEREBINTHINA CHIA. The resin obtained from the Pistacia terebinthus.

TEREBINTHINA COMMUNIS. Common turpentine. See Pinus sylvistris.

TEREBINTHINA CYPRIA. Cyprus turpentine. See Pistucia terebinthus.

TEREBINTHINA VENETA. Venice turpentine: so called because we are supplied with it from the Vene-

tians. See Pinus larix. TEREBINTHINA VULGARIS. Common turpentine.

The liquid resin of the Pinus sylvestris. See Tur-

TEREBINTHINÆ OLBUM. The oil distilled from the liquid resin of the Pinus sylvestris.

TE'RES. Round, cylindrical.

The name of some muscles and ligaments.
 The name of the ascaris lumbricoides, or round

worm, which intests the intestines. See Worms.

3. Applied to roots, stems, leaves, leafstalks, seeds, &cc

TERES LIGAMENTUM. The ligament at the bottom

of the socket of the hip joint.

TERES MAJOR. Riolanus, who was the first that distinguished this and the other muscles of the scapula by particular appellations, gave the name of teres to this and the following muscle, on account of their long and round shape. Inguli-scapulo-humeral, of Dumas This muscle, which is longer and thicker than the teres minor, is situated along the inferior costa of the scapula, and is in part covered by the deltoides.

It arises fleshy from the outer surface of the inferior angle of the scapula, (where it covers some part of the infra spinatus and teres minor, with both which its fibres intermix,) and likewise from the lower and posterior half of the inferior costa of the scapula. As cending obliquely towards the os humeri, it passes under the long head of the triceps brachi, and then becomes thinner and flatter to form a thin tendon of about an such in breadth, and somewhat more in length, which cans manediately behind that of the latissimus dorsi, and is inserted along with it into the tidge at the inner side of the groove that lodges the long head of the biceps. These two tendons are included in the common capsula, besides which the tendon of this muscle adheres to the os humeri by two other capsulæ which we find placed one above the

This muscle assists in the rotatory muscle of the arm, and likewise in drawing it downwards and backwards; so that we may consider it as the congener of

the laussimus dorst.

TERES MINOR. Marginisus scapulo trochiterien, f Dumas. This muscle seems to have been first described by Fallopius. The teres minor is a thin fleshy muscle, situated along the inferior edge of the infraspinatus, and is in part covered by the posterior part

It auses fleshy from all the convex edge of the inferior costa of the scapula; from thence it ascends obliquely upwards and forwards, and terminates in a flat tendon, which adheres to the lower and posterior part of the capsular ligament of the joint, and is inserted into the lower part of the great tuberosity of the os humeri, a little below the termination of the infra-spinatus

The tendinous membrane, which is continued from the infra spinatus, and spread over the teres minor, likewise forms a thin septum between the two mus-cles. In some subjects, however, they are so closely united, as to be with difficulty separated from each other. Some of the fibres of the teres minor are inter-

mixed with those of the teres major and subscapularis.
The uses of this muscle are similar to those of the

TE'RETRUM. (From τερεω, to pierce.) The tre-TERMINALIS. Terminal: applied to flower-stalk

when it terminates a stem or branch; as in Centaurea

TERMINTHUS. (From respin 80s, the turpentine-tice; so called from their resemblance to the fruit of the turpentine tree.) Albatis. Black and ardent pustules, mostly attacking the legs of females.

TERNARY. Consisting of the number three, which

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some chemical and mystical writers have made strange work with; but the most remarkable distinction of this kind, and the only one worth notice, is that of Hippocrates, who divides the parts of a human body into con-tinentes, contenta, and impetum facientes, though the latter is resolvable into the mechanism of the two for-

mer, rather than any thing distinct in itself.

TERNATUS. Ternate: applied in botany to a leaf which consists of three leaflets, as that of the trefoil.

TERNUS. Ternate: applied to leaves, when there are three together; as in many of the plants of Chili and Peru, which seem particularly disposed to this arrangement, and in Verbena triphylla.

TE'RRA. See Earth.

TERRA CARIOSA. Rotten stone, a species of noneffervescent chalk, of a brown colour.

Terra catechu. See deacia catechu. Terra damnata. See Caput mortuum. Terra foliata tartari. The acetate of potassa.

TERRA JAPONICA. Japan earth. See Acacia catechu. TERRA LEMNIA. See Bolc.

TERRA LIVONICA. See Bole.
TERRA MARITA. The curcuma, or turmeric-root, is sometimes so called.
TERRA MORTUA. See Caput mortuum.

TERRA PONDEROSA. The heavy spar.

TERRA PONDEROSA SALITA. See Murias baruta. TERRA SIENNA. A brown ochre found at Sienna, in Italy, used in painting, both raw and burnt. TERRA SIGULATA. See Bole.

TERRA VERTE. An ore used in painting, which contains iron in some unknown state mixed with clay, and sometimes with chalk and pyrites.

TERRE OLEUM. See Petroleum.

TERREA ABSORBENTIA. Absorbent earths, distinguishable from other earthy and stony substances by their solubility in acids; as chalk, crabs' claws, oystershells, egg shells, pearl, coral, &c. TERRENUS. Terrene, eartl

Terrene, earthy: applied to plants which grow in the earth only, in opposition to those

which live only in water.

Τκ'π ετιπα. (From τεοθοον, a crane.) The middle and lateral parts of the neck

TERTIAN. A third-day ague. See Febris inter millens.

Tertian ague. See Febris intermittens. TERTIA NA. See Febris intermittens

TERRITANA DUPLEX. A tertian fever that returns but the paroxysms are unequal, every other fit being alike

TERRITANA DUPLICATA. A tertian fever returning every other day; but there are two paroxysms in one

TERTIANA FEBRIS. See Febris intermittens

TERMINA TRIBLEY. A testian fever returning every day, every other day there are two paroxysms, and but one in the intermediate one.

TERTIANATRIA. Prom tectiona, a species of in See Sentell mia gul-runlata.

TER TILM SAL. From tertius, third.) A neutral salt, as being the product of an acid and an alkali, making

a third body different from either. TE'SERA. (From τεσσαφα, four.) A four square

bone. The cuboid bone.
TEST. Any reagent which, added to a substance, teaches us to discover its chemical nature or composi-See Reagent.

TESTA. (Quasi tosta; from torreo, to burn.) A shell. The oyster-shell.

In botany, it is the name of the skin which contains all the parts of a seed, as the embryo, the lobes, the vitellus, and albumen, and which gives shape to the seed, for the skin is perfectly formed while they are but a homogeneous liquid. The testa differs in thickness and texture in different plants. It is sometimes single, but more frequently lined with a finer and very delicate film, called by Gærtner membrana, as may be seen in a walnut, and the kernel of a peach, almond, or plum. - Smith.

TESTA PROBATRIX. A cupel or test. A pot for sepa rating baser metals from gold and silver.
TESTA'DO. (From testa, a shell because it is

covered with a shell.)

1. A tortoise, also a snail.

2. An ulcer, which, like a snail, creeps under the skin

TESTE PREPARATE. Prepared oyster-shells. Wash the shells, previously cleared of dirt, with boiling water, then prepare them as is directed with chalk.

TESTE CULLUS. (Testiculus, diminutive of testis.

TESTIC LE. See Testis.

TESTICULUS. (Testiculus, diminutive of testis.) (Testiculus, diminutive of testis.) 1.

A small testicle.

2. The orchis plant: so named from the resemblance of its roots to a testicle.

TESTICULUS CANINUS. See Orchis mascula.

TE'STIS. (Testis, is, m.; a winess, the testes being the witnesses of our manhood.) The testicle. Orchis. They are also called didymi, and by some perin. Two little oval bodies situated within the scrotum, and covered by a strong, white, and dense coat, called tunica albuginea. Each testicle is composed of small vessels, bent in a serpentine direction, arising from the spermatic artery, and convoluted into little heaps, separated from one another by cellular partitions. In each partition there is a duct receiving semen from the small vessels; and all the ducts constitute a net which is attached to the tunica albuginea. From this which is attached to the tunica albuginea. From this net-work twenty or more vessels arise, all of which are variously control and variously contorted, and, being reflected, ascend to the posterior margin of the testis, where they unite into one common duct, bent into serpentine windings, and forming a hard body called the *epididymis*. The spermatic arteries are branches of the aorta. The spermatic veins empty themselves into the vena cava and emulgent vein. The nerves of the testicle are branches of the lumbar and great intercostal nerve. The use of the testicle is to secrete the semen.

TETANIC. Tetanicus. Appertaining to tetanus

or cramp.

TETANO'MATA. (From τετανοω, to smooth.) Teta-

TE TANUS. (Tetanus, i, m.; from τεινω, to stretch.) TELETARUS. (Telemus, i.m.; from retro, constructing Spansm with rigidity. Convulsio indica: Holotonicos; Kugor nervosus. A genus of disease in the Class Neuroses, and Order Spasmi, of Cullen; characterized by a spasmodic rigidity of almost the whole body. The varieties of telanus are, 1. Opisthotonos, where the bands is the manufacture of the spasmodic region of the spasmodic region of the spasmodic productions of the body is thrown back by spasmodic contractions of the nuscles. 2. Emprosthutonos, the body being bent forwards. 3. Trismus, the locked jaw. Tetanus is often symptomatic of syphilis and worms.

These affections arise more frequently in warm climates than in cold ones, and are very apt to occur when much ram or moisture quickly succeeds excessively dry and sultry weather. They attack persons of all ages, sexes, temperaments, and complexions, but the male sex more frequently than the female, and those of a robust and vizorous constitution than those of a weak habit. An idea is entertained by many, Dr. Thomas observes, that negroes are more predisposed to attacks of tetanus than white people; they certainly are more frequently affected with it, but this circumstance does not arise from any constitutional predisposition, but from their being more exposed to punctures and wounds in the feet, by nails, splinters of wood, pieces of broken glass, &c. from usually going bare-footed.

Tetanic affections are occasioned either by exposure

to cold, or by some irritation of the nerves, in consequence of local injury by puncture, incision, or lacera-Lacerated wounds of tendinous parts prove, in warm climates, a never-failing source of these complaints. In cold climates, as well as in warm, the locked jaw frequently arises in consequence of the

amputation of a limb.

When the disease has arisen in consequence of a puncture, or any other external injury, the symptoms show themselves generally about the eighth day; bu when it proceeds from exposure to cold, they generally make their appearance much sooner.

In some instances it comes on suddenly, and with great violence; but it more usually makes its attack in a gradual manner; in which case, a slight stiffness is at first perceived in the back part of the neck, which, after a short time, becomes considerably increased, and at length renders the motion of the head both difficult painful.

With the rigidity of the head there is likewise an aneasy sensation at the root of the tongue, together with some difficulty in swallowing, and a great tightness is perceived about the chest, with a pain at the extremity

TEU TET

of the sternum, shooting into the back. A stiffness also takes place in the jaws, which soon increases to such a height, that the teeth become so closely set together, as not to admit of the smallest opening. This is whatas not to admit of the smallest opening.

is termed the locked jaw, or trismus

In some cases, the spasmodic affection extends no further. In others the spasms at this stage of the dis case, returning with great frequency become likewise more general, and now affect not only the muscles of the neck and jaws, but likewise those of the whole spine, so as to bend the trunk of the body very forcibly backwards, and this is what is named opisthotonos Where the body is bent forwards the disease is called emprosthotonos

During the whole course of the disorder, the abdominal muscles are violently affected with spasm, so that the belly is strongly retracted, and feels very hard, most obstinate costiveness prevails, and both the flexor and extensor muscles of the lower extremities are commonly affected at the same time so as to keep the limbs rigidly

The flexors of the head and trunk become at length so strongly affected, as to balance the action of the extensor, and to keep the head and trunk so rigidly extended and straight, as to render it incapable of being moved in any direction. The arms, which were little moved in any direction. The arms, which were little affected before, are now likewise rigidly extended, the tongue also becomes affected with spasm, and, being convulsively darted out, is often much injured by the teeth at that moment snapping together. It is to this state of the disease that the term tetanus has been strictly applied,

The disorder continuing to advance, every organ of voluntary motion becomes affected; the eyes are rigid and immoveable, the countenance is hideously dis-torted, and expresses great distress; the strength is exhausted, and the pulse becomes irregular, and one uni versal spasm puts a period to a most miserable state of

Attacks of tetanus are seldom attended with any fever, but always with violent pain, and the spasms do not cominue for a constancy, but the muscles admit of some remission in their contraction, which is frequently

renewed, especially if the patient makes the least attempt to speak, drink, or alter his position.
When tetanic affections arise in consequence of a wound, puncture, or laceration, in warm climates, Dr. Thomas observes, they are almost sure to prove fatal. The locked jaw in consequence of an amputation, likewise proves usually fatal. When these affections cases be removed by a timely use of proper remedies, although a considerable space will probably clapse be fore the patient will be able to recover his former strength.

On dissections of this disease, slight effusions within the cranium have been observed in a few instances but in by far the greater number, nothing has been dis

covered, either in the brain, or any other organ.

The general indications are, 1. To remove any local initation, which may appear to have excited the dis-case; 2. Po lessen the general irritability, and spas modic tendency; 3. To restore the tone of the system. If a thorn, or other extraneous substance, be lodged in any part, it must be extracted; any spicula of bone, which may have brought on the disease after amputation, should be removed; a punctured wound ought to be dilated, &c. Some have proposed dividing the nerve going to the part, or even amputating this, to cut off the irritation; others paralyzing the nerves by powerful sedatives, or destroying them by caustics others again exciting a new action in the part by active stimulants: but the efficacy, and even propriety of such measures, is doubtful. To fulfil the second indication, various means have been proposed. The abstraction of blood, recommended by Dr. Rush, might perhaps appear advisable in a vigorous plethoric habit in the begi ming of the disease, but it has generally proved of little utility, or even hurtful, and is rather contra indicated by the state of the blood. Purging is a less questionable measure, as costiveness generally attends the disease, and in many cases it has appeared very beneficial, especially when calomel was employed. been found also, that a salivation, induced by mercury, has sometimes greatly relieved the disorder; but in other instances it has failed altogether. The remedy which has been oftenest employed, and with the most lare then preferable to the leaves. When dry, the dose

decided advantage, is opium, and sometimes prodigious quantities of it have been exhibited; indeed, small doses are uscless, and even large ones have only a temporary effect, so that they must be repeated, as the vioporary effect, so that they must be repeated, as me yo-lence of the symptoms is renewed; and where the patient cannot swallow, it may be tried in glyster, or freely rubbed into the skin. Other sedative and anti-spasmodic remedies, have been occasionally resorted to, as hemlock, tobacco, musk, camphor &c. but for the most part with less satisfactory results. The warmbath has sometimes proved a useful auxiliary in cold climates; but the cold bath is much more relied upon, especially in the West Indies, usually in conjunction with the liberal use of opium. In Germany, alkaline baths, and the internal use of the same remedies, are stated to have been decidedly serviceable. Others have advised the large use of bark and wine, which seem, however, rather calculated to be preventives, or to fulfil the third indication; yet wine may be employed rather as nourishment, since in severe cases of the dis ease little else can be taken. Electricity seems too hazardous a remedy to be tried in a general affection, Electricity seems too especially in the muscles of respiration; but if confined to the jaw, it may be useful in a mild form. the period of convalescence the strength must be re-stored by suitable diet and medicines, the cold-bath, regular exercise, &c.; and removing the patient from the West Indies to a colder climate, till the health is

the West Indies to a colder climate, in the health is fully established, would be a very proper precaution.

TETRATE'US. (Terapratos, fourth.) A quartan fever.

TETRADYNAMIA. (From recorage, four, and obvange, power.) The name of a class of plants in the sexual system of Linneus, containing hermaphrodite flowers, with six stamens, four of which are long, and

two short.

TETRAGONUS. Quadrangular, square: applied to several parts of plants, as Caulis tetragonus, in that of the Lamium album, and a multitude of plants; For lium tetragonium, with four edges, or prominent angles, as that of Iris tuberosa

TETRAGYNIA. (From rescapes, four, and youn, a wife.) The name of an order of plants in several of the classes of the sexual system of Linnaus, con sisting of plants which, to the classic character, what ever it is, add the circumstance of having four pistils.

Teptemy Rum. (Prom respace to maying four posins. Teptemy Rum. (Prom respace, four, and μορον, an ointment.) An ointment of four ingredients. TETRANDRIA. (From τεσσαρες, four, and ανηρ, a lumband.) The name of a class of plants in the sexual system of Linnaus. To it belong those which have hermaphrodite flowers with four stamina of equal

Tetrangu'ria. (From tetras four, and ayyos, a cup so called because its fruit resembles a cup divided into

four parts.) The citrul. TETRAPETALOUS.

Four-petalled: applied to the flower that consists of four single petals or leaves placed around the pistil
TETRAPHA'RMACUM. (From τετρας, four, and

φαρμακον, a drug.) A medicine composed of four in-

ΤΕΤRAPHYLLUS. (From τετρας, four, and φυλλον, a leaf.) Four leaved. TETTER. See H

a teat.) Four teaven. TETTER. See Herpes. TEU'CRIUM. (Teucrium, ii, n.; from Teucer, who discovered it.) The name of a genus of plants in the Linnean system. Class, Didynamia; Order, Gymnospermia. The herb speedwell. TEUGHUM CAPITATUM. The systematic name of the poley mountain ce Montpellier. Polium monta-

This plant hears the winter of our climate, and is generally substituted for the caudy-species.

is generally substituted for the candy-species.

Teucritism chambers. The systematic name of the common germander. Chambers; C neiformi-oculis, incisis, crenatis, petiulatis; floribus ternis; caulibus procumbentibus, subpilosis, of Lin-naus, has a moderately bitter and somewhat aromatic It was in high repute among the ancients in in termittent fevers, rheumatism, and gout; and where an aromatic bitter is wanting, germander may be ad-ministered with success. The best time for gathering this herb is when the seeds are formed, and the tops

is from 3 ss. to 3 j. Either water or spirit will extract their virtue; but the watery infusion is more bitter. This plant is an ingredient in the once celebrated powder called from the Duke of Portland, Portland powder.

Dowder.

Trucrium champritys. The systematic name of the ground-pine. Chamapitys; Arthetica; Arthretica; Aphgra: Isa arthritica; Hologrom; Ionia; Sideritis. Common ground pine. This low hairy plant, Teicrium—folies trejidis, linearibus, integerremis; foribus sessilibus, lateralibus, solitariis; caule diffuso, of Linnaus, has a moderately bitter taste, and a resinous, not disagreeable smell, somewhat like that of the pine. The tops of leaves are recommended as aperients and corroborants of the nervous system, and said to be particularly serviceable in female obstructions and paralytic disorders

TEUCRIUM CRETICUM. The systematic name of the poley mountain of Candy. Polium creticum. porey mountain of caudy. Focus exercicum. The tops and whole herb enter the antiquated compounds mithridate and theriaca. The plant is obtained from the island of Candy; has a moderately aromatic smell. and a nauseous bitter taste. It is placed among the

aperients and corroborants.

TEVERIUM IVA. (hamapitys moschata; Iva moschata monspeliensium; Chamapitys anthyllus. French ground-pine. It is weaker, but of similar virtues to

Chamænitys.

TEUCRIUM MARUM. The systematic name of the Marum syriacum; Marum creticum; Majorana syriaca; Marum verum; Marum cortusi; Chamedrys incana maritima; Marum germander, or Syrian herb meana maritima; Marum germander, or Syrian herb mastich. This shrub is the Teacram—folisis integer-rimis ovatis acutis petiolatis, subtus tomentosis; flori-bus racemosis secundis, of Linneus. It grows plenti-fully in Greece, Egypt, Crete, and Syria. The leaves and younger branches, when recent, on being rubbed between the fingers, emit a volatile aromatic smell, which readily excites sneezing; to the taste they are bitterish, accompanied with a sensation of heat and acrimony. Indexing from these sensible multities of the Judging from these sensible qualities of the plant, it may be supposed to possess very active powers. It is recommended as a stimulant aromatic, and deobstruent; and Linnæus, Rosenstein, and Bergins, speak highly of its utility. Dose, ten grains to half a drachm of the powdered leaves, given in wine. At present, however, marum is chiefly used as an errhine.

Truckiem montanem. The systematic name of the

Common poley mountain.

The systematic name of the golden poley mountain.

The systematic name of the Treerium scordium. The systematic name of the Scordium. Trissago palustris; Chamadrys palustris; Illium redolens. Water germander. The leaves of this plant have a smell somewhat of the garlic kin.l, from which circumstance it is supposed to take its name, to the taste they are bitterish and slightly pun-gent. The plant was formerly in high estimation, but is now justly fallen into disuse, although recommended by some in antiseptic cataplasms and fomentations. ΤΕU THRUM. Τευθρον. The herb polium. See

The Three of Teneral Parameters, i. m. a bed.) That Lamus. ( $\Omega \lambda \lambda a \mu o \varepsilon$ ): That Lamus. ( $\Omega \lambda a \mu o \varepsilon$ ): That Lamus. ( $\Omega \lambda a \mu o \varepsilon$ ) That Lamus applied to what is supposed to be the origin of the optic nerve, and to the receptacle of parts of fructification of plants. See Receptaculum.

That Lamus Nervi office. Two bodies which form

in part the optic nerve, placed near to each other, in appearance white, protruding at the base of the lateral ventricles, and running in their direction inwards, a little downwards, and upwards, are called the Tha

lami nervorum opticorum.
ΤΗΚΙΑΝΝΟ΄ ΜΕΙΙ. (From θαλασσα, the sea, and μελι, Thalasso Mell. (From Valagoga, the sea, and personney) A medicine composed of sea-water and honey. THALI'CTRUM. (Thalictrum, 7:, n.; from 6allo, to flourish.) 1. The name of a genus of plants in the Linnean system. Class, Polyandria; Order, Poly-

The pharmacopæial name of the poor mam's

Thibath. See Thalletrum flavum. The profile and of the poor mais ribbath. The systematic name of the poor mais ribbath. The root of this plant is said to be aperient and stomachic, and to come very

said to be aperical and stomachic, and to come very near in its virtues to rhubarb. It is a common plant in this country, but seldem used medicinally.

THALLITE. Epidote, or Pistacite.

THALLIUS. (From βαλλος, an olive bud, or green bough; from βαλλο, to be verdant, to shoot forth, or spread abroad. A term applied by Acharius, for the frond or foliage of a lichen, whether that part be of a leafy, fibrous, scaly, or crustaceous nature.

THAPSIA. (From Thapsus, the island where it was found.) The name of a genus of plants in the Linnaan system. Class, Pentandria; Order, Digynia Thapsia asclepias. The deadly carrot. The root

operates violently both upwards and downwards, and

operates violency north upwards and downwards, and is not used in the present practice.

THA/PSUS. (From the island Thapsus.) The great white mullein, or cows' lungwort.

THE'A. Tea. The dried leaves of the tea-tree, of

THE A. Tea. The dried leaves of the tea-tree, of which there are two species, viz. 1. The Thea nigra, boliea, or black tea; and 2. The viridis, or green tea; both of which are natives of China or Japan, where they attain the height of five or six feet.

Great pains are taken in collecting the leaves singly, at three different times, viz. about the middle of February and interest of Market and in the six of Market and

ruary, in the beginning of March, and in April. Although some writers assert, that they are first exposed to the steam of boiling water, and then dried on copperplates; yet it is now understood that such leaves are stimply dried on irror plates, suspended over a fire, till they become dry and shrivelled; when cool, they are packed in tin boxes to exclude the air, and in that state exported to Europe.

Tens are divided in Britain into three kinds of green,

and five of bohea. The former class includes,

1. Imperial or bloom tea, having a large leaf, a faint

smell, and being of a light green colour 2. Hyson, which has small curled leaves, of a green shade inclining to blue.

3. Singlo tea, thus termed from the place where it is cultivated.

The boheas comprehend,

1. Souchong, which, on infusion, imparts a yellowish green colour.

2. Camho, a fine tea, emitting a fragrant violet smell. and yielding a pale shade; it receives its name from the province where it is reared.

Pekoe tea is known by the small white flowers that are mixed with it.

4. Congo has a larger leaf than the preceding variety,

4. Congo has a larger lear than the preceding variety, and yields a deeper tint to water; and, 5. Common bohea, the leaves of which are of a uniform green colour. There are besides other kinds of tea, sold under the names of gunpowder tea, &c. which differ from the preceding only in the minuteness. of their leaves, and being dried with additional care.

The following interesting results of experiments on tea by Brande, have been published by him in his

Journal.

| One hundred parts of Tea.  | Soluble<br>in<br>Water.                                  | Soluble<br>in<br>Alkohol.                                | with   | Inert<br>Residue.  |
|--|--|--|--|--|
| Green Hyson, 14s. per lb. Ditto, 12s. Ditto, 10s. Ditto, 8s. Ditto, 7s. Black Souchong, 12s. Ditto, 10s. Ditto, 10s. Ditto, 7s. Ditto, 6s. | 41<br>34<br>36<br>36<br>31<br>35<br>34<br>37<br>36<br>35 | 44<br>43<br>43<br>42<br>41<br>36<br>37<br>35<br>35<br>31 | 31<br>29<br>26<br>25<br>24<br>28<br>28<br>28<br>28<br>28<br>24<br>23 | 56<br>57<br>57<br>58<br>59<br>64<br>63<br>63<br>64<br>65 |

Much has been said and written on the medicinal ( properties of tea; in its natural state it is a narcotic plant, on which account the Chinese refrain from its use till it has been divested of this property by keeping it at least for twelve months. If, however, good tea be drunk in moderate quantities, with sufficient milk and sugar, it invigorates the system, and produces a temporary exhibaration; but when taken too copiously, it is apt to occasion weakness, tremor, palsies, and various other symptoms arising from narcotic plants, while it contributes to aggravate hysterical and hypochondriacal complaints. Tea has also been supposed to possess considerable diuretic and sudorific virtues, which, however, depend more on the quantity of warm water employed as a vehicle, than the quantity of tea itself. Lastly, as infusions of these leaves are the safest refreshment after undergoing great bodily fatigue or mental exertion, they afford an agreeable beverage to those who are exposed to cold weather; at the same time tending to support and promote perspiration, which is otherwise liable to be impeded.

Fluellin or male speedwell. THEA GERMANICA.

THEBATCA. (A Thebaide regione, from the country about the ancient city of Thebes in Egypt, where it flourished.) The Egyptian poppy.

Thebesty foramina. The oritices of yeins in the

cavities of the heart.

CAVIDES II
 THE CA. From τ(θημι, to place.)
 A Section 1
 The canal of the vertebral column.
 The capsule or dry fructification adhering to the

THECA VERTEBRALIS. The vertebral canal. See Spine.
THELY PTERIS. (From θηλυς, female,

THELY PTERIS. (From \$\theta\_p\lambda\busys) female, and \$\pi\_{\text{trail}}\$ ferm. The lemale form.
THE NAR. See Flexor brevis publicis manus.
THEOBRO'MA. (Theobroms, w. 1. Thom that the gods, and flooping, food; so called from the eleberousness of its truit.) The name of a genus of plants. Class, Polyadelpha; (Order, Procondent.
THEOBROWY CACAO. The systematic name of the

tree which affords cocoa and chocolate

The operation (From θεω, the gods, and δωων, a gift.) The pompous name of some antidotes.

THER APELA. (From θερμπενώ, to heal.) The

capia. The art of healing diseases, See Thera

pentica.
THERAPEUTICA. (From βεραπενω, to cure. Therapia. Methodus medendi. Therapeuties. That branch of medicine which treats of the operation of the different means employed for curing diseases, and of the application of these means.

THERI'ACA. (From  $\mathfrak{I}_{pp}$ , a viper, or venomous wild beast.) 1. Treacle, or molasses.

2. A medicine appropriated to the cure of the bites

of venomous animals, or to resist poisons.

THERIVEA ANDROMACHI. The Venice or Mithridate treacle; a composition of sixty-one ingredients, prepared, pulverized, and with honey formed into an electuary.

THERIACA CŒLESTIS. Liquid laudanum.
THERIACA COMMUNIS. Common treacle, or mo-

THERIACA DAMOCRATIS. The same preparation as mithridate. See Mithridatium.

THERIACA EDINENSIS. Edinburgh theriaca. The Confectio opii.

THERIACA GERMANORUM. A rob of juniper ber

THERIACA LONDINENSIS. A cataplasm of cummin seed, bay-herries, germander, snake-root, cloves, and

THERIACA RUSTICORUM. The roots of the common garlie were so called. See Allium satirum.
THERIO'MA. (From θηριοώ, to rage like a wild

A malignant ulcer.

THE RMA. A warm-bath or spring. See Mineral moters, and Bath

THERMOMETER. (Thermometrum; from Ocoun, heat, and usroom, a measure.) An instrument for measuring the degrees of heat. A thermometer is a hollow tube of glass, hermetically sealed, and blown at one end in the shape of a hollow globe. The bulb and part of the tube are filled with mercury, which is the only fluid that expands equally. When we immerse the bulb of the thermometer in a hot body, the mercury expands, and of course rises in the tube; but when we plunge it into a cold body, the mercury contracts,

we plunge it into a cold body, the mercury contracts, and of course fulls in the tube.

The rising of the mercury indicates, therefore, an increase of heat; its falling, a diminution of it; and the quantity which it rises or falls, denotes the proportion of increase or diminution. To facilitate observation, the tube is divided into a number of equal parts,

Further, if we plunge a thermometer ever so often into melting snow or ice, it will always stand at the same point. Hence we learn that snow or ice always

begins to melt at the same temperature.

If we plunge a thermometer repeatedly into water kept boiling, we find that the mercury rises up to a certain point. This is therefore the point at which water always boils, provided the pressure of the atmosphere be the same

There are four different thermometers used at present in Europe, differing from each other in the number of degrees into which the space between the freezing and boiling points is divided. These are Fahrenheit's

boiling points is divided. These Reaumur's, Celsius's, and Delisle's.

The thermometer uniformly used in Britain, is Fahrenheit's; in this the freezing point is fixed at 320—the boiling point, at 2120 above 00—or the part at which both the ascending and descending series of numbers

commence

In the thermometer which was first constructed by Reaumur, the scale is divided into a smaller number of degrees upon the same length, and contains not more than 80° between the freezing and the boiling points. The freezing point is fixed in this thermometer precisely at 00, the term between the ascending and the descending series of numbers. Again, 100 is the number of the degrees between the freezing and the boiling points in the scale of Celsius; which has been intro-duced into France, since the revolution, under the name of the Ceutigrade thermometer; and the freezing point is in this, as in the thermometer of Reaumur, fixed at 49. One degree on the scale of Pahrenheit appears, from this account, to be equal to 4 9ths of a degree on that of Reaumur, and to 5-9ths of a degree on that of Celsius

The space in Delisle's thermometer between the freezing and boiling points is divided into 150°, but the graduation begins at the boiling point, and increases towards the freezing point. The boiling point is marked 0, the freezing point. The boiling point is marked 0, the freezing point 150. Hence 180 F. = 150 Da, or 6 F. = 5 D. To reduce the degrees of Delisle's thermometer under the boiling point to those of Fahrenheit, we have F. = 212 - 6.5 D.; to reduce those above the boiling, point F. = 212 + 6.5 D. Upon the knowledge of this invonction it is easy for the student. knowledge of this proportion it is easy for the student to reduce the degrees of any of these thermometers into the degrees of any other of them.

Thures vinegar. See Acetum aromaticum.

THIGH. See Femur.

THIGH BONE. See Femur.
THIGH BONE. See Femur.
THIRST. Sitis. The sensation by which we experience a desire to drink. It is variable according to individuals, and it is rarely uniform in the same person. Generally speaking, it consists of a feeling of dryness, of heat, and constriction, which reigns in the back part of the mouth, the pharynx, æsophagus, and sometimes the stomach. Though thirst continue but for a short time, these parts swell and become red, the microns secretion ceases almost entirely; that of the follicles changes, becomes thick and tenacious; the flowing of the saliva diminishes, and its viscosity is sensibly augmented.

These phenomena are accompanied by a vague in-quietude, by a general heat; the eyes become red, the mind is boubled, the motion of the blood is accelerated, the respiration becomes laborious, the mouth is frequently opened wide, in order to bring the external air into contact with the irritated parts, and thus to pro-

duce a momentary case.

For the most part, the inclination to drink is developed, when by some cause, for example, heat and dryness of the atmosphere, the body has lost a great deal of fluid; but it appears under a great many different circumstances, such as having spoken long, having eaten certain sorts of food, or swallowed a substance which remains in the asophagus, &c. The vicious habit of frequently drinking, and the desire of tasting some liquids, such as brandy, wine, &c., cause the developement of a feeling which has the greatest analogy with thirst.

There are people who never felt thirst, who drink from a sort of sympathy, but who could live a long time without thinking of it, or without suffering from the wart of it; there are other persons in whom thirst is often renewed, and becomes so strong as to make them drink from forty to sixty pints of figuid in twentyfour hours; in this respect, great individual differences are remarked.

Thirst is an internal sensation, an instinctive feeling; it belongs essentially to the organization, and admits of no explanation.

mits of no explanation.
THISTLE. See Carduus.
Thistle, carline. See Carlina acaulis.
Thistle, holy. See Centuarea benedicta.
Thistle, pine. See Carlina gammifora.
THLA SPI. (Thiaspi, n.; indeclinable: from θλαω, to break; because its seed appears as it it were broken or bruised.) 1. The name of a genus of plants in the linear explanation of the plants of the plants in the linear explanation. Linnæan system. Class, Tetradynamia; Order, Sili-

2. The pharmaceutical name of the heeb penny-cress. Two species of thispi are directed in some pharmacopeias for medicinal use:—the Thiaspi orwans, of Linneaus, or treache mustard; and Thiaspi compestre, of Linneaus, or mithridate mustard. The seeds of both have an acrid biting-taste, approaching to that of common mustard, with which they agree nearly in their pharmaceutic qualities. They have also an unbegasant flavour songewhat of the gadie or onion. 2. The pharmaceutical name of the herb penny-cress. pleasant flavour, somewhat of the garlic or onion

The systematic name of the THLASPI ARVENSE.

Theast arense. The systematic name of the treacle mustard. See Thlaspi.

Theast campestre. The systematic name of the mithridate junstand. See Thlaspi.

THORACUC. (Thoracious; from thorax, the chest.)

Belonging to the thorax, or chest.

Thoracal cover. Ductus thoracious. Ductus

Pecquettii. The trunk of the absorbents; of a serpen tine form, and about the diameter of a crow quill hes upon the dorsal vertebra, between the acrta and vena azygos, and extends from the posterior opening of the diaphragm, to the angle formed by the union of the left subclavian and jugular veins, into which it opens and evacuates its contents. In this course, the thoracic duct receives the absorbent vessels from al-

THORAX. (Thorax, acis, f.; from Sopew, to leap: because in it the heart leaps.) The chest. That part of the body situated between the neck and the abdomien. The external parts of the thorax are, the common integuments, the breasts, various muscles, and the hours of the thorax. (See Bone, and Responstrum.)

The parts within the cavity of the thorax are, the pleura and its productions, the langs, heart, thymns gland, esophagus, thoracic duct, arch of the aorta, part of the vena cava, the vena azygos, the eighth pair of nerves, and part of the great intercostal nerve.

THORINA. An earth discovered in 1816 by Berzelius. He found it in small quantities in the gadolinite of Korarvet, and two new minerals which he calls the deutofluate of cerium, and the double fluate of cerium

and yttria. It resembles zirconia.

To obtain it from those minerals that contain protoxide of cerium and yttria, we must first separate the oxide of iron by succinate of ammonia. The new carth, indeed, may, when alone, be precipitated by the succinates; but in the analytical experiments in which he has obtained it, it precipitated in so small a quantity along with iron, that he could not separate it from that oxide. The deutoxide of cerium is then precipitated by the sulphate of potassa; after which the yttria and the new earth are precipitated together by caustic Dissolve them in muriatic acid. Evapoammonia. rate the solution to dryness, and pour boiling water on the residue, which will dissolve the greatest part of the yttria; but the undissolved residue still contains a portion of it. Dissolve it in muriatic or nitric acid, and evaporate it till it becomes as exactly neutral as possible. Then pour water upon it, and boil it for an possible. Then pour water upon it, and boil it for an instant. The new earth is precipitated, and the liquid contains dissengaged acid. By saturating this liquid, and boiling it a second time, we obtain a new precipitate of the new earth.

This earth, when separated by the filter, has the appearance of a gelatinous, semitransparent mass. When

washed and dried, it becomes white, absorbs carbonic acid, and dissolves with effervescence in acids. Though calcined, it retains its white colour; and when the calcined, it retains its white colour; and when the heat to which it has been exposed was only moderate, it dissolves readily in muriatic acid; but if the heat has been violent, it will not dissolve till it be digested in strong muriatic acid. This solution has a yellowish colour; but it becomes colourless when diluted with water, as is the case with glucina, yttria, and alumina. If it be mixed with yttria, it dissolves more readily after having been exposed to heat. The neutral solutions of this earth have a purely astringent taste, which is neither sweet, nor saline, nor bitter, nor metallic. In this property it differs from all other species of earths, except zirconia.

except streoma.

When dissolved in sulphuric acid with a slight excess of acid, and subjected to evaporation, it yields transparent crystals, which are not altered by exposure to the air, and which have a strong styptic taste.

This earth dissolves very easily in nitric acid; but after being heated to redness, it does not dissolve in it except by long boiling. The solution does not crystalexcept by long boiling. The solution does not crystallize, but forms a mucilaginous mass, which becomes more liquid by exposure to the air, and which, when evaporated by a moderate heat, leaves a white, opaque mass, similar to enamel, in a great measure insoluble in water.

It dissolves in muriatic acid, in the same manner as in nitric acid. The solution does not crystallize. When evaporated by a moderate heat, it is converted into a syrupy mass, which does not deliquesce in the air, but dries, becomes white like enamel, and afterward dissolves only in very small quantity in water, leaving a subsalt undissolved; so that by spontaneous evapora-tion it lets the portion of muriatic acid escape to which it owed its solubility.

This earth combines with avidity with carbonic acid. The precipitates produced by caustic ammonia, or by boiting the neutral solutions of the earth in acids, absorb carbonic acid from the air in drying. The al-kaline carbonates precipitate the earth combined with the whole of their carbonic acid.

The ferruginous prussiate of potassa poured into a solution of this earth, throws down a white precipitate, which is completely redissolved by muriatic acid.

Caustic potassa and ammonia have no action on this earth newly precipitated, not even at a boiling

The solution of carbonate of potassa, or carbonate of ammonia, dissolves a small quantity of it. which precipitates again when the liquid is supersaturated with an acid, and then neutralized by caustic ammonia; but this earth is much less soluble in the al-kaline carbonates than any of the earths formerly

known that dissolve in them.

Thorina differs from the other earths by the following properties:--From alumina, by its insolubility in bydrate of potassa: from glucina, by the same property; hydrate of polissa. From guerna, by the same property; from yttria, by its purely astringen taste, without any sweetness, and by the property which its solutions possess of being precipitated by boiling when they do not contain too great an excess of acid. It differs from zirconia by the following properties:—I. After being heated to redness, it is still capable of being dissolved in acids 2. Sulphate of potassa does not precipitate it from its solutions, while it precipitates zirconia from solutions containing even a considerable excess of acid. 3. It is containing even a considerable excess of acid. 3. It is precipitated by oxalate of ammonia, which is not the case with zirconia. 4. Sulphate of thorina crystallizes readily, while sulphate of zirconia, supposing it free from alkali, forms, when duied, a gelatinous, transparent mass, without any trace of crystallization.

THORINUM. The supposed metallic basis of thoring, not hitherto extracted.

THORN. See Pranus spinosa.

Thorn, Egyptian. See Acacia vera.
THORN-APPLE. See Datura stramonium.
[THOROUGHWORT. See Eupatorium perfolia-

THROMBOSIS. (Thrombosis, is, f.; from 6poµ6os.)
The same as thrombus.
THRO'MBU'S. (Thrombus, i, m.; from \$0000, to disturb.) A small tumour which sometimes arises after bleeding, from the blood escaping from the vein into the cellular structure surrounding it.

THRUSH. See Aphtha.

THY THRY'PTICA. (From θρυπτω, to break.) Medicines | this plant. It is very pungent, and has a particularly which are said to have the power of destroying stones | grateful odour, approaching to that of lemons. in the bladder.

THULITE. A hard, peach-blossom coloured mineral, found at Souland, in Tellemark, in Norway.

THUMERSTONE. Sec Axmite.
THU'RIS CORTEX. The cascarilla and clutheria

THU'RIS CORTEX. The cascarilla and parks were so called. See Croton cascarilla.

THUS. (From 9υω, to sacrifice: so called from its great use in sacrifices.) See Juniperus lycia, and Pinus abies.

THUS MODEORUM. See Thymiama.
THUS MASCULIM. See Juniperus lycia.
THUY'A. (From twor, odour: so named from its
fragrant smell.) Thija. The name of a genus of plants.

Class, Monæcia; Order, Monadelphia

Thuy's occurentalis. The systematic name of the tree of life. Arbor cita. Thuya—strobilis lavibus; squamis obtusis, of Linnaus. The leaves and wood were formerly in high estimation as resolvents, sudorifics, and expectorants, and were given in phthisical affections, intermittent fevers, and dropsies.

ThyLact 'vis. (From budasos, a seed-vessel: so called from its large head.) The white garden pooppy.

THYMBRA. (A name borrowed from Dioscories, whose real begions however, is a species of Saturcies.)

1. The name of a genus of plants. Class, Didynamia; Order, Gymnospermia.

2. See Saturita hortensis

THYMERA HISPANICA. The name given by Tournefort to the common herb mastich. See Thymus mas-

THYME. Sec Thymus.

Thyme, lemon. See Thymus scrpyllum. Thyme, mother of. See Thymus scrpyllum.

THYMELET'S. (From Orpos, thyme, and educe, an olive; the first aliming to the leaf, and the latter to the shape and oiliness of the fruit.) See Daphace

problem.

THYMIA'MA. (From the thickness of the thickness leaves had been bruised and pressed together; brought tion Syria, Cilicia, &c. and supposed to be the produce of the liquid storax tree. This bark has an agreeable balsamic smell, approaching to that of liquid storay, and a sub-acrid bitterish taste, accompanied with some slight adstringency.

sight adstringency.

Thy MIPM. (From θυρος, thyme; because it is of the colour of thyme.) A small want upon the skin.

THYMOXY LME. (From θυρος, thyme, οξος, acid, and akc. salt.) A composition of thyme, vinegar, and salt.

THYMES. (Thymas, t, m. Aπο του δυρος, because it was used in finitings; or from δυρος, an odom, because of its fragrant smell.) 1. The name of a genus of abouts in the Linguistic system. Class. Dimmanio:

of plants in the Linnean system. Class, Didynamia; Order, Gymnospermia. Thyme.

2. The pharmacopecial name of the common thyme.

See Thymus vulgaris. 3. A small indolent carnous tubercle like a wart arising about the anus, or the pudenda, resembling the

Thymes of thyme, from whence it takes its name.
Thymes citratus. See Thymus scrpyllum.
Thymus creticus. See Saturcia capitata.

Thymus Gland. Ovhos. A gland of considerable size in the fætus, situated in the anterior duplicature or space of the mediastinum, under the superior part of the sternum. An excretory duct has not yet been detected, but lymphatic vessels have been seen going

detected, but lymphatic vessels have been seen geng from it to the thoracic duct. Its use is unknown. Thymus Mastichia. The systematic name of the common herb mastich. Marum rulgare; Sampsu. hyspanica; Jaca indica. A low shrubby plant, a native of Spain, which is employed as an errhine. It has a strong agreeable smell, like mastich. Its virtues are similar to those of the Marum syriacum, but less powerful.

THYMUS SERPYLLUM. The systematic name of the Scrpyllum; Scrpyllum; Gilarum; Scrpyllum vulgare minus. Wild or mother of thyme. Thymus—floribus minus. Wild of mother of thyline. Fuguus Jorious capitatis, caulibus repentibus, foliis plants obtusis basi ciliatis, of Linnaus. This plant has the same sensible qualities as those of the garden thyme, but has and rather more grateful flavour. Lemon thyme, the Serpyllum citratum, is merely a variety of

THYMUS VULGARIS. The systematic name of the common thyme. This herb, the Thymus—crectus folice revolutis ovatis, floribus verticillate spicatis, of Linnaus, has an agreeable aromatic smell, and a warm pungent taste. Its virtues are said to be resolvent, em menagogue, tonic, and stomachic; yet there is no disease mentioned in which its use is particularly recommended by any writer on the materia medica.

THYRO. Names compounded with this word be-

long to muscles which are attached to the thyroid car

THYRO ARYTENOIDEUS. A muscle situated about the glottis, which pulls the arytenoid cartilage forward nearer to the middle of the thyroid, and consequently shortens and relaxes the ligament of the larynx.

THYRO-HYOIDEUS. A muscle situated between the os hyoides and trunk, which pulls the os hyoides down-

wards, and the thyroid cartilage upwards. THYRO-PHARYNGEUS. See Constrictor pharyngis

THYRO-PHARYNGO-STAPHILINUS. See Palato pha-

ryngeus.
Thyro staphilinus. See Palato pharyngeus.
Thyro Staphilinus. See Palato pharyngeus.
Thyrollo. (Thyroideus; from Jupeos, a shield, and etdos, resemblance; from its supposed resemblance to a shield.) Resembling a shield.

Cartillago thuroidea; Carti

THYROID CARTILAGE. Cartilago thyroidea; Cartilago scutiformus. Scutiform cartilage. The cartilage which is placed perpendicular to the cricoid cartilage of the larynx, constituting the anterior, superior, and largest part of the larynx. It is harder and more prominent in men than in women, in whom it forms the pomum adami.

Thyrono Gland. Glandula thyroidea A large gland situated upon the cricoid cartilage, trachea, and horns of the thyroid cartilage. It is uncertain whether it be conglobate or conglomerate. His exerctory duct

If he conglobate or congnomerate. Its exercity and has never been defected, and its use is not yet-known. THYRSUS (Thyrsus, i, m.; a young sprout.) In botany, a bunch, or dense and close pannicle, more or less of an ovate form. It is ollong in Tussikago hybrida,

and arate in Tussilago petasites.

TVB1A. (Tibia, the hamboy; qu. tubia, from tuba, a tube; so called from its pipe-like shape.) Focile majus; Arundo major; Fosilus; and, from its resemblance to an old musical instrument, Canna major; Canna domestica cruris. The largest bone of the leg It is of a long, thick, and triangular shape, and is situated on the internal part of the leg. Its upper extremity is large, and flattened at its summit, where we observe two articulating surfaces, a little concave, and separated from each other by an intermediate irregular rated from each other by an interneutite irregular protuberance. Of these two cavities, the internal one is deepest, and of an oblong shape, while the external one is rounded, and more superficial. Each of these, in the recent subject, is covered by a cartilage, which extends to the intermediate protuberance, where it terminates. These two little cavities receive the condyles of the os femoris, and the eminence between them is admitted into the eavity which is seen between the two condyles of that bone; so that this articulation affords a specimen of the complete ginglyons. Behind the in-termediate protuberance, or tubercle, is a pretty deep depression, which serves for the attachment of a ligament, and likewise to separate the two cavities from each other. Under the edge of the external cavity is a circular flat surface, covered with cartilage, which serves for the articulation of the fibula; and at the forepart of the bone is a considerable tuberosity of an inch and a half in length, to which the strong ligament of the rotula is fixed.

The body of the tibia is smaller than its extremities, and, being of a triangular shape, affords three surfaces, Of these, the external one is broad, and slightly hol-lowed by muscles above and below; the internal sur-face is broad and flat, and the posterior surface is narrower than the other two, and nearly cylindrical. This last has a slight ridge running obliquely across it, from the outer side of the upper end of the bone to about one-third of its length downwards. A little below this we observe a passage for the medullary vessels, which is pretty considerable, and slants obliquely downwards.
Of the three angles which separate these surfaces, the anterior one, from its sharpness, is called the spine or shin. This ridge is not straight, but describes a figure

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like an Italic f, turning first Inwards, then outwards, and lastly inwards again. The external angle is more rounded, and serves for the attachment of the interesseous ligament; and the internal one is more rounded still by the pressure of muscles.

The tibia enlarges again at its lower extremity, and terminates in a pretty deep cavity, by which it is arti-culated with the uppermost bone of the foot. This cavity, in the recent subject, is lined with cartilage. Its internal side is formed into a considerable process, called malleolus internus, which, in its situation, resembles the styloid process of the radius. This process is broad, and of considerable thickness, and from its liganormal, and of considerable discress, and from its ligaments are extended to the foot. At its back part we find a groove, lined with a thin layer of cartilage, in which slide the tendons of the flexor digitorum longus, and of the tibialis posticus; and a little behind this is a smaller groove, for the tendon of the flexor longus politicis. On the side opposite to the malleolus litternus, the cavity is interrusted and invendigated. above it is a rough triangular depression, which is furnished with cartilage, and receives the lower end of the

The whole of this lower extremity of the bone seems to be turned somewhat outwards, so that the malleolus internus is situated more forwards than the inner border of the upper extremity of the bone

In the fœtus, both ends of the tibia are cartilaginous,

In the feetus, both ends of the tibia are cartilaginous, and become afterward epiphyses.

TIBIAL. (Tibiatis; from tibia, the bone of the leg, so called.) Belonging to the tibia.

TIBIAL ARTERY. Afteria tibiatis. The two principal branches of the popliteal artery: the one proceeds forwards, and is called the anterior tibial; the other backwards, and is called the posterior tibial; of which he external tibial, the fibular, the external and internal plantar, and the plantal arch, are branches.

TIBIALIS. See Tibial.

TRIPLIAL ANYICUS. Tibio-sus-metatarsien, of Du-

TIBIALIS ANTICUS. Tibio-sus-metatarsien, of Du-as. A flexor muscle of the foot, situated on the leg, which bends the foot by drawing it upwards, and at the same time turns the toes inwards.

Tiblalis Gracilis See Plantaris.

TIBIALIS POSTICUS. Tibio-tarsien, of Dumas. A flexor muscle of the foot, situated on the leg, which ex-

tends the foot, and turns the toes inwards
TIC DOULOUREUX. A painful a A painful affection of a nerve, so called from its sudden and momentary excruciating stroke. The more appropriate name is neuralgia. It mostly attacks the face, particularly that branch of the fifth pair, which comes out of the infraorbitary foramen.

Trolla Grana. See Croton tiglium.
TILBURY. A small town in Essex, celebrated for s fort. A mineral water is found at West Tilbury. It is an aperient and chalybeate now seldom used medici-

TILE ORE. TILLE ORE. A species of octoneura red copper ore. TI'LIA. (Titra, α, i, Π/ελεα, utmus, the elm-tree.)

1. The name of a genus of plants in the Linmaean system. Class, Polyandria; Order, Monogynia.

2. The pharmacopæial name of the lime, or lindentree. See Titia europæa.

TILLA EUROPÆA. The systematic name of the lime. A species of octohedral red copper ore

TILIA EUROPEA. The systematic name of the lunc-tree. The flowers of this tree are supposed to possess anodyne and antispasmodic virtues. They have a mo-derately strong smell, in which their virtue seems to consist, and abound with a strong mucilage. They are in high esteem in France. See *Tilia*.

TILLI GRANA. See Croton tightum.
TI'LMUS. (From τιλλω, to pluck.) Floccitatio, or picking of bed-clothes, observable in the last stages of

some disorders.

[THTON, JAMES, M.D. was born in the county of Kent, in the state of Delaware, in June, 1745. His father, dying when he was very young, left him to the care of his mother, with very slender means. Notwithstanding this, he found means to study a profession, and obtained his degree of doctor in medicine from the University of Pennsylvania. He then commenced practice in his native State, and was successful in establishing himself, but the troubles of the revolution soon commenced, and in 1776 he joined the army of the United States as a surgeon, and was afterward promoted to the grade of hospital surgeon. After the successful termination of the revolutionary contest, when Dr. Tilton saw his country free and independent,

he once more retired to his native state, and recom-menced the practice of his profession, which he conmenced the practice of his profession, which he continued for many years with distinguished reputation and abilities. In 1812, he had retired to his country-seat in the neighbourhood of Wilmington, when he was again called to take an active part in a new contest with our old enemy. After the declaration of war against Great Britain, Dr. Tilton was appointed Physician and Surgeon General of the United States Army, and continued to act in that capacity during the three years of the war.

As a physician Dr. Tilton was bold and decided; he ne as a physician Dr. Findon was bold and necincel; ne never temporized with disease. His remedies were few in number, but generally of an active kind. He died in May, 1822, nearly 77 years old. His publications were few, but valuable and useful. His friend, Dr. McLane, in a eulogy to his memory, gives the following summary of his character:

"In whatever view we may consider the character of Dr. Tilton, we shall find many traits to distinguish him from other men. He was in many respects an original; wholly unlike most other men in person, countenance, manners, speech, gesture, and habits. His height was about six feet and a half, and his structure. ture slender. Whether he walked or sat still; whether in conversation or mute; whether he ate, drauk, or smoked; whether in a grave mood or indulging in his smoked; Whether in a grave mood or industing it his loud laugh, all was in a style peculiar to himself, and most remarkable. For honesty and frankness he was proverbial; in these important points he had few equals, certainly no superiors. His whole life afforded a luminous example of the effects of deep-rooted principles and moral rectitude upon the conduct of men; and we have the fullest assurance to believe that he and we have the fullest assurance to believe that he has reached those realms of peace and happiness, from which he can never be separated; and has become the 'just maz made perfect.'"—Thach. Med. Biog. A.]
TIMAC. The name of a root imported from the East Indies, which is said to possess diuretic virtues, and therefore exhibited in dropsies. It is not known from

what plant it is obtained.

TIN. Stannum. Jupiter of the alchemists. It has been much doubted whether this metal is found native. In the opinion of Kirwan, there are sufficient authorities to determine the question in the affirmative. The ties to determine the question in the affirmative. The native oxide of tin, or tin stone, occurs both massive and crystallized. Its colour is a dark brown, sometimes yellowish-gray. When crystallized, it is somewhat transparent. The wood tin ore is a variety of the native oxide, termed so from its fibrous texture. This variety has hitherto been found only in Cornwall. It occurs in fragments which are generally round, and its colour is brown, sometimes inclining to yellow. Tin is also found mineralized by sulphur, associated always. also found mineralized by sulphur, associated always with a portion of copper, and often of iron. This ore is called tin pyrites. Its colour is yellowish-gray. It has a metallic lustre, and a fibrous or lamellated texture; sometimes it exhibits prismatic colours. Tin is comparatively a rare metal, as it is not found in great quantity any where but in Cornwall or Devonshire; though it is likewise met with in the mines of Bohemia, Saxony, the island of Banca, the peninsula of Malacca, and in the East Indics

Tin is a metal of a yellowish-white colour, considerably harder than lead, scarcely at all sonorous, very malleable, though not very tenacious. Under the hammer it is extended into leaves, called tin-foil, which are about one thousandth of an inch thick, and might easily be beaten to less than half that thickness, if the pur-poses of trade required it. Its specific gravity is 7.29. It mets at about the 442° of Fahrenheit's thermometer, and by a continuance of the heat it is slowly converted into a white powder by oxidation. Like lead, it is brittle when heated almost to fusion, and exhibits a grained or fibrous texture if broken by the blow of a hammer. It may also be granulated by agitation at time of its transition from the fluid to the solid the time of its transition from the min to the solid state. The oxide of tin resists fusion more strongly than that of any other metal; from which property it is useful to form an opaque white enamel when mixed with pure glass in fusion. The brightness of its surface, when scraped, soon goes off by exposure to the air ; but it is not subject to rust or corrosion by exposure to the weather.

To obtain pure tin, the metal should be boiled in nitric acid, and the oxide which falls down reduced by heat in contact with charcoal, in a covered crucible.

The first or protoxide is gray: the second or is white. The first is formed by heating tin in oxygen. The first the air, or by dissolving tin in muriatic acid, and adding water of potassa to the solution while recent, and before it has been exposed to air. The precipitate, after being heated to whiteness to expel the water of the hydrate, is the pure protoxide. It is convertible into the peroxide by being boiled with dilute nitric acid,

dried and ignited.

When tin is There are also two chlorides of tin. burned in clusion way of activates of the when this burned in chlorine, a very volatile clear liquor is formed, a non-conductor of electricity, and which, when mixed with a little water, becomes a solid crystalline substance, a true muriate of tin, containing the peroxide of the metal. This, which has been called the liquor of Librarius may be also procured by beginning the containing the peroxide. of the metal. This, which has been called the liquor of Libavius, may be also procured by heating together tin-filings and corrosive sublimate, or an amalgam of tin and corrosive sublimate. The other compound of tin and chlorine is a gray semitransparent crystalline soild. It may be procured by heating together an amalgam of tin and calomel. It dissolves in water,

amaigam of tin and catomel. It dissolves in water, and forms a solution, which rapidly absorbs oxygen from the air, with deposition of peroxide of tin.

There are two sulphurets of tin. One may be made by fusing tin and sulphur together. It is of a blush colour, and lamellated texture. It consists of 7.35 tin + 2 sulphur. The other sulphuret, or the bisulphuret, is made by heating together the peroxide of tin and sulphur. It is of a beautiful gold colour, and appears

in fine flakes.

The salts of tin are characterized by the following general properties

1. Ferro-prussiate of potassa gives a white precipi-

2. Hydrosulphuret of potassa, a brownish black with the protoxide; and a golden yellow with the peroxide.

3. Galls do not affect the solutions of these salts.

4. Corrosive sublimate occasions a black precipitate

with the protoxide salts; a white with the peroxide 5. A plate of lead frequently throws down metallic tin, or its oxide, from the saline solutions.

Muriate of gold gives, with the protoxide solutions, the purple precipitate of Cassius.

Muriate of platinum occasions an orange preci

pitate with the protoxide salts. Concentrated sulphuric acid, assisted by heat, dis-solves half its weight of fin, at the same time that sul-phurous gas escapes in great plenty.

Nitric acid and tin combine together very rapidly

without the assistance of heat. The muriatic acid dissolves tin very readily, at the

same time that it becomes of a darker colour, and ceases to emit fumes.

Aqua regia, consisting of two parts nitric and one muriatic acid, combines with tin with effervescence, and the development of much heat.

The acetic acid scarcely acts upon tin. tion of other acids upon this metal has been little in Phosphate, fluate, and borate of tin have been formed by precipitating the muriate with the respective neutral salts.

If the crystals of the saline combination of copper with the nitric acid be grossly powdered, moistened, nd rolled up in tinfoil, the salt deliquesces, nitrous fumes are emitted, the mass becomes hot, and suddenly takes fire. In this experiment, he rapid transition of the nitric acid to the tin is supposed to produce or develope heat enough to set fire to the nitric salts; but by what particular changes of capacity, has not been shown.

If small pieces of phosphorus be thrown on tin in fusion, it will take up from 15 to 20 per cent., and form a silvery white phosphuret of a foliated texture, and soft enough to be cut with a knife, though but little malleable. This phosphuret may be formed likewise by fusing tin filings with concrete phosphoric acid.

Tin unites with bismuth by fusion, and becomes harder and more brittle in proportion to the quantity of that metal added. With nickel it forms a white brilliant mass. It cannot easily be united in the direct way with arsenic, on account of the volatility of this metal; but by heating it with the combination of the arsenical acid and potassa, the salt is partly decom-posed; and the tin combining with the acid, becomes converted into a brilliant brittle compound, of a plaited texture. It has been said, that all tin contains arsenic;

There are two definite combinations of tin and and that the crackling noise which is heard upon bend mg pieces of tin, is produced by this impurity, but from the experiment of Bayen, this appears not to be the fact. Cobalt unites with tin by fusion, and forms a grained mixture of a colour slightly inclining to violet. Zinc unites very well with tin, increasing its hardness, and diminishing its ductility, in proportion as the quantity of zinc is greater.

This is one of the principal additions used in making pewter, which consists for the most part of tin.

Antimony forms a very brittle, hard mixture with tin Tungsten fused with twice its weight of tin, affords a

Thingsen itself whit which is somewhat ductile.

The uses of tin are very numerous, and so well known, that they scarcely need be pointed out. The tinning of iron and copper, the silvering of looking-glasses, and the fabrication of a great variety of vessels and utensils for domestic and other uses, are among

Trivial activations as for the advantages derived from this metal.

Trivial activation as for the activation a

genus of fishes. The tench.

Ting go. The mouth of the uterus is so called by TINCAL. Crude borax, as it is imported from the East Indies in vellow greasy crystals. See Borax

ast Indies in yellow greasy (rystaus.
TINCTO'RIUS. (From tingo, to dye.) An epithet of a species of broom used by dyers.

tinctoria of Linnaus.
TINCTU'RA. (From tingo, to dye.) A solution of any substance in spirit of wine. Rectified spirit of wine is the direct menstruum of the resins, and essential oils of vegetables, and totally extracts these active principles from sundry vegetable matters, which yield them to water not at all, or only in part. It dissolves likewise the sweet saceharine matter of vegetables, and generally those parts of animal bodies in which their peculiar smell and taste reside.

The virtues of many vegetables are extracted almost equally by water and rectified spirit; but in the watery and spirituous tinctures of them there is this difference, that the active parts in the watery extractions are blended with a large proportion of inert gummy matter, on which their solubility in this menstruum in a great measure depends, while rectified spirit extracts them almost pure from gum. Hence, when the spirit-uous tinctures are mixed with watery liquors, a part of what the spirit had taken up from the subject generally separates and subsides, on account of its having been freed from that matter, which, being blended with it in the original vegetable, made it soluble in water. This, however, is not universal, for the active parts of some vegetables, when extracted by rectified spirits, are not precipitated by water, being almost soluble in both

Rectified spirit may be tinged by vegetables of all colours, except blue. The leaves of plants, in general, will give out little of their natural colour to watery liquors, but communicate to spirit the whole of their green tincture, which for the most part proves elegant,

though not very durable

Fixed alkaline salts deepen the colour of spirituous Fixed albatine saits deepen the colour of spirituous tinctures; and hence they have been supposed to promote the dissolving power of the menstruum, though this does not appear from experience. In the trials which have been made, no more was found to be taken up in the deep coloured tinctures than in the paler ones, and often not so much. If the alkali be added after the extraction of the tincture, it will heighten the colour as much as when mixed with the ingredients at first. The addition of these salts in making tinctures in the different particular as they generally is not only needless but prejudicial, as they generally injure the flavour of aromatics, and superadd a qua-lity sometimes contrary to the intention of the medi-

Volatile alkaline salts, in many cases, promote the action of the spirits. Acids generally weaken it; un-less when the acid has been previously combined with the vinous spirit into a compound of new qualities,

called dulcified spirit.

TINCTURA ALOES. Tincture of aloes. Take of the extract of spike aloe, powdered, half an ounce; ex-tract of liquorice, an ounce and a half; water, a pint; rectified spirit, four fluid ounces. Macerate in a sandbath until the extracts are dissolved, and then strain. This preparation possesses stomachic and purgative qualities, but should never be given where there is a

tendency to hæmorrhoids. In chlorotic cases and strain. amenorrhæa, it is preferred to other purges. The dose

is from half to a whole fluid ounce.

TINCTURA ALOES COMPOSTA. Compound tineture of aloes, formerly called Elizir aloes; Elizir proprietatis. Take of extract of spiked aloe, powdered saffron, of each three ounces; tineture of myrth, two pluts. Macerate for fourteen days, and strain. A more stimulating compound than the former. It is a useful application to old indolent ulcers. The dose is from battle distribution to the truth. half a fluid drachm to two.

TINCTURA ALOES VITRIOLATA. With the bitter infusion, a dracting or two of this elegant tincture is ex-tremely serviceable against gouty and rheumatic affec-tions of the stomach and bowels, and also in the weaknesses of those organs which frequently attended

TINCTURA ASSAFETIDE. Tincture of assafetida, formerly known by the name of tinetura fatida.

Take of assafætida, four ounces; rectified spirit, two pints. Macerate for fourteen days, and strain. Diluted pints. Macerate for fourteen days, and strain. Dinited with water, this is mostly given in all kinds of fits, by the vulgar. It is a useful preparation as an antispasmodic, especially in conjunction with sulphate of zinc. The dose is from half a fluid drachin to two.

TINCTURA AURANTH. Tincture of orange-peel, formerly tinctura corticis aurantii. Take of firsh orange-peel, three ounces; proof spirit, two pints. Macerate for fourteen days, and strain. A mild and pleasant stompehic hitter.

pleasant stomachic bitter.

TINCTURA BENZOINI COMPOSITA. Compound tincture of benzoin, formerly known by the names of tinctura benzoes composita, and balsamum traumatitractura bearoes composita, and balsamam traumati-cum. Take of benzoin, three ounces; thorax balsam, strained, two ounces; balsam of Tolu, an ounce; ex-tract of spiked aloe, balf an ounce; rectified spirit, two pints. Macerate for fourteen days, and strain. This tincture is more generally applied externally to This theture is more generally applied externally to ulcers and wounds than given internally, though possessing expectorant, antispasmodic, and stimulating powers. Against coughs, spasmodic affections of the stomach and bowels, and diarrhea, produced by ulcerations of those parts, it is a very excellent medicine. The dose, when given internally, is from half a fluid drachm to two.

fluid drachm to two.

Tincture of calumba, for merly called tractura columba. Take of calumbar root, sliced, two onnees and a baff; proof spirit, two pints. Macerate for fourteen days, and strain. This tincture contains the active part of the root, and is generally given with the infusion of it, as a stomachic

and adstringent.

TINCTURA CAMPHORÆ COMPOSITA. Compound tincture of camplior, formerly called tincture opic camphorata, and elixir paregoricum. Take of camplior, two scruples; opium, dried and powdered, benzoir acid, of each a drachm; proof spirit, two pints. Macerate for fourteen days, and strain. The London college has changed the name of this preparation, because it was occasionally the source of mistakes under its old one, and tincture of opium was sometimes substituted for it. It differs also from the former preparation in the omission of the oil of aniseed, which was often complained of as disagneeable to the palate, and to which, as an addition, no increase of power could be affixed. The dose is from half a fluid drachm to half a fluid ounce.

TINCTURA CANTHARIDIS. Tincture of blistering fly. Formerly called Tinctura lutta; Tinctura canthari Take of blistering flies, bruised, three drachms; proof spirit, two pints. Macerate for fourteen days, and strain. In the last edition of the London Pharmacopæia, the colouring matter of the former preparation is omitted as useless, and the proportion of the fly increased. It is a very acrid, diuretic, and stimulating preparation, which should always be administered with great caution from its known action on the parts of generation. In chronic eruptions on the skin, and dropsical diseases of the aged, it is often very useful when other medicines have been inert. The dose is from half a fluid drachm to two.

TINCTURA CAPSICI. Tincture of capsicum.

of capsicum-berries, an ounce; proof spirit, two pints.

Macerate for fourteen days, and strain.

TINCTURA CARDAMOMI. Tincture of cardamom. TINCTURA CARDAMOMI. Tincture of cardamom. Take of cardamom-seeds, bruised, three ounces; proof spirit, two pints. Macerate for fourteen days, and

strain. A powerful stimulating carminative. In spasm of the stomach, an ounce, with some other diluted stimulant, is given with advantage. The dose may vary according to circumstances, from half a drachm to an ounce and upwards.

TINCTURA CARDAMOMI COMPOSITA. Compound tincture of cardamoin, formerly called tinctura stomackica. ture of cardamon, formerly called inscripts stomachical Take of cardamon-seeds, carraway-seeds, cochineal, of each, powdered, two drachins; cinnamon-bark, bruised, half an ounce; raisins, stoned, four ounces; proof spirit, two pints. Macerate ifor fourteen days, and strain. A useful and elegant carminative and cordial. The dose from half a fluid drachm to half a fluid ounce and upwards.

TINCTURA CASCARILLE. Tincture of cascarilla-Take of cascarilla-bark, powdered, four ounces; proof spirit, two pints. Macerate for fourteen days, and strain. A stimulating aromatic tonic, that may be exhibited in debility of the bowels and stomach, and in those cases of fever in which the Peruvian bark proves purgative. The dose from half a drachm to two

TINCTURA CASTOREI. Tincture of castor. Take of castor, powdered, two ounces; rectified spirit, two pints. Macerate for seven days, and strain. A powerful stimulant and antispasmodic, mostly exhibited in hysterical affections in a dilute form. The dose is

nysteriest affections in a unite form. The dose is from half a fluid drachm to two.

Tinctura categin. Tincture of catechu, formerly known by the name tinctura japonica. Take of extract of catechu, three ounces; cinnamon-bark,

of extract of catechu, three ounces; cinnamon-bark, bruised, two ounces; proof spirit, two pints. Macerate for fourteen days, and strain. An aromatic adstringent, mostly given in protracted diarrhea. The dose is from half a fluid drachm to two.

TINCTURA CINCHONE. Tincture of cinchona. Formerly known by the name of tinctura corticis perwiani simplex. Take of lance-leaved cinchona-bark, powdered, seven ounces; proof spirit, two pints. Macerate for fourteen days, and strain. The dose is from a fluid drachm to half a fluid ounce. For its virtues, see Comehona. see Cinchona.

TINCTURA CINCHONÆ AMMONIATA. Ammoniated tincture of cinchona. Volatile tincture of bark. Take of lance leaved cinchona-bark, powdered, four ounces; aromatic spirit of ammonia, two pints; macerate for

ten days, and strain.

TINCTURA CINCHONÆ COMPOSITA. Compound tinctrue of emchana. Take of lance-leaved cinchona-bark, powdered, two onaces; orange peed, dried, an ounce and a half; serpentary-root, bruised, three drachms; saffion, a drachm; coclineal, powdered, two scruples; proof spirit, twenty fluid ounces. Macerate for fourteen days, and strain. The dose is from one fluid drachm to half a fluid ounce. For its virtues, see

Tincture of cinnamon momi fortis. Take of cin-TINCTURA CINNAMOMI. Formerly called aqua cinnamomi fortis. Take of cinnamon-bark, bruised, three ounces; proof spirit, two pints. Macerate for fourteen days, and strain. The dose is from a fluid drachm to three or more.

TINCTURA CINNAMOMI COMPOSITA. Compound tincture of cinnamon. Formerly called tinctura aromatica. Take of cinnamon-bark, bruised, six drachms; cardamom-seeds, bruised, three drachms; long pepper, pow-dered, ginger-root, sliced, of each two drachms; proo-spirit, two pints. Macerate for fourteen days, and The dose is from half a fluid drachm to two strain. or more.

Tincture of fox-glove. TINCTURA DIGITALIS. of fox-glove leaves, dried, four ounces; proof spirit, two pints. Macerate for fourteen days, and strain. This tineture is introduced in the London Plarmacoperia as possessing the properties of the plant in a conpecia as possessing the properties of the plant in a convenient, uniform, and permanent form; it is a saturated fincture, and in the same proportions has been long used in general practice. The dose is from ten to forty minims. For its virtues, see Digitalis.

TINCTURA FERRI ACETATIS. This preparation is a least to the Dublia Pharmaconia, with access of the control of the property with access of the control of the property with access of the control of the property with access of the control of the control of the property with access of the control of the property with access of the control of the c

directed in the Dublin Pharmacopæia, with acetate of potassa, two ounces; sulphate of iron, one ounce; and

rectified spirit, two pints.

TINCTURA FERRI AMMONIATI. Tincture of ammoniated iron, formerly called tinctura ferri ammoniacalis; tinctura forum martialium; tinctura martis myn-sichti. Take of ammoniated iron, four ounces; proof spirit, a pint. Digest and strain. This is a most 351

given with cinchona in the cure of dropsical and other cachectic diseases. The dose is from half a fluid

drachm to two.

TINCTURA FERRI MURIATIS. Tincture of muriate of iron Formerly called tinctura martis in spiritu salis; tinctura martis cum spiritu salis; and lately known by the name of tinctura ferri muriati. Take known by the name of Gnetura Jerri murrati. Take of subcarbonate of iron, half a pound; muriatic acid, a pint; rectified spirit, three pints. Pour the acid upon the subcarbonate of iron in a glass vessel, and shake it occasionally for three days. Set it by that the fæces, if there be any, may subside; then pour off the solution, and add the spirit. Cline strongly recommends this in instancial and themselves and tribute. ischuria and many diseases of the kidneys and urinary passages. The dose is from ten to twenty drops. It is a good chalybeate, and serviceable against most dis-eases of debility without fever.

TINCTURA GENTIANA COMPOSITA. Compound tincture of gentian. Formerly called tinctura amara. Take of gentian-root, sliced, two ounces; orange-peel, dried, an ounce; cardamom-seeds, bruised, half an ounce; proof spirit, two pints. Macerate for fourteen

days, with a gentle meas, and one fluid drachm to two. For its virtues, see Gentland Tincruza, author. Tincruze of guaiacum. Take of guaiacum resin, powdered, haif a pound; rectified anirit, two pints. Maccrate for fourteen days, and strain. This tincture, which possesses all the active parts of this peculiar vegetable matter, is now first introduced into the London Pharmacopæia. The dose is from one fluid drachm to two. For its virtues, see Quaiacum.

TINCTURA GUAIACI AMMONIATA. Ammoniated tinc-ture of guaiacum. Formerly called tinctura guaiacina volatitis. Take of guaiacum resin, powdered, four ounces; aromatic spirit of ammonia, a pint and a half. Macerate for fourteen days, and strain. The dose is

from one fluid drachm to two.

TINCTURA HELLEBORI NIGRA. Tincture of black TINCTURA HELLEBORI NIGRA. Tincture of viaco-hellebore. Formerly called tinctura melampodii.
"Take of black hellebore-root, sliced, four ounces; proof spirit, two pints. Macerate for fourteen days, and strain." The dose is from half to a whole fluid drachm. For its virtues, consult Helleborus niger.

TINCTURA HUNCLI. Tincture of hop. Take of

hops, five ounces; proof spirit, two pints. Macerate for fourteen days, and strain. Various modifications of the preparations of this bitter have lately been strongly recommended by Freke (Observations on Humulus Lupulus), and employed by many practitioners, who believe that it unites sedative and tonic powers, and thus forms a useful combination. The dose is

and thus forms a useful combination. The dose is from half to a whole fluid drachm. See Hundlus.

Tinctura Hyoscvami. Tincture of henbane.

Take of henbane-leaves, dried, four ounces; proof spirit, two pints. Macerate for fourteen days, and strain. That the henbane itself is narcotic is abundantly record that the corresponding to the control of the dantly proved, that the same power is also found in its tincture is also certain, but to produce the same effects requires a much larger dose. In some of the state ments made to the College of Physicians of London, a different opinion has been given, and twenty-five drops have been considered as equivalent to twenty of tincture of opium: it does not produce costiveness, or the subsequent confusion of head which follows the use of opium, and will therefore be, even if its powers be weaker, of considerable use. The dose is from ten weaker, of considerable use. minims to one fluid drachm.

TINCTURA JALAPE. Tincture of jalap, formerly called tinctura jalapii. Take of jalap-root, powdered, eight ounces; proof spirit, two pints. Macerate for fourteen days, with a gentle heat, and strain. The dose is from one fluid drachm to half a fluid ounce.

For its virtues, see Convolvaius jalapa.
TINCTURA KINO. Tincture of kino. Take of kino, powdered, three ounces; proof spirit, two pints. Macerate for fourteen days, and strain. All the astringency of kino is included in this preparation. The dose is from half a fluid drachm to two. See Kino.

TINCTURA LYTTE. See Tinctura cantharidis.
TINCTURA MYRRHE. Tincture of myrrh. Take of myrrh, bruised, four ounces; rectified spirit, two pints; water, a pint. Macerate for fourteen days, and strain. The dose is from half to a whole fluid drachm For its virtues, see Myrrha.

TINCTURA OPH. Tincture of opium: Take of hard 352

excellent chalybeate in all atonic affections, and may be | oprum, powdered, two ounces and a half; proof spirit. opum, powdered, two ounces and a hall; proof spirit, two pints. Macerate for fourteen days and strain. The dose is from ten minims, or twenty drops, to half a fluid drachm. For its virtues, see Opuam.

Tinctura Rhei. Tincture of rhubarb. Formerly known by the names of Tinctura rhubarburi, and Tinctura rhubarbari spirituosa. Take of rhubarb.

Tinctura rhabarbari spirituosa. Take of rhubarbroot sliced, two ounces; cardamom-seeds, bruised, half an ounce; saffron, two drachms; proof spirit, two pints. Macerate for fourteen days, with a gentle heat, and strain. The dose is from half a flui and a half. For its virtues, see Rheum. The dose is from half a fluid ounce to one

TINCTURA RHEI COMPOSITA. Compound tincture of The Tura ring composita. Compound inclure of rhubarb. Formerly called Tinctura rhabarbari composita. Take of rhubarb-root, sliced, two ounces; liquorice-root, bruised, half an ounce; ginger-root, sliced, saffron, of each two drachms; proof spirit, a pint; water, twelve fluid ounces. Macerate for fourteen days, with a gentle heat, and strain. This is a mild stomachic aperion. The dose is from half a fluid

mild stoffactive aprenament of the property of pints. Macerate for fourteen days, and strain. The virtues of this squill (see Scilla) reside in the tincture, which is administered in doses of from twenty drops to

a fluid drachm.

TINCTURA SENNÆ. Tincture of senna. Formerly called Elixir salutis. Take of senna-leaves, three ounces; carraway-seeds, bruised, three drachms; car-damon-seeds, bruised, a drachm; raisins, stoned, four

damom-seeds, bruised, a drachm; raisins, stoned, four ounces; proof spirit, two pints. Macerate for fourteen days, with a gentle heat, and strain. A carminative, aperient, and purgative, in doses from two fluid drachms to a fluid ounce. See Cassia senna.

TINCTURA SERPENTARIE. Tincture of serpentary. Formerly called Tinctura serpentarie virginiana. Take of serpentary-root, three ounces; proof spirit, two pints. Macerate for fourteen days, and strain. This theture possesses, in addition to the virtues of the spirit, those of the serpentaria. The dose is from half a fluid drachm to two. See Aristolackia sequentaria.

spirit, those of the serpentaria. The dose is from hall a fluid drachm to two. See. Aristolachia serpentaria. Tincture at Valerian. Formerly called Tinctura valerianas simplex. Take of valerian-root, four ounces; proof spirit, two pints. Macerate for fourteen days, and strain. A useful antispasmodic in conjunction with others. The dose is from half a fluid drachm to two. See Valeriana. The course of the proof of the p

TINCTURA VALERIANÆ AMMONIATA. Ammoniated tincture of valerian. Formerly called Tinctura valeriane volatilis. Take of valerian-root, four ounces; aromatic spirit of ammonia, two pints. Macerate for fourteen days, and strain. A strong antispasmodic and stimulating tincture. The dose is from half a fluid drachin to two.

TINCTURA VERATRI. A very active alterative, re-commended in the cure of epilepsy and cutaneous erup tions. Its administration requires great caution; the

white helicbore being a powerful poison.

Tinetura zironeaus. Tineture of ginger. Take of ginger-root, sliced, two onness; proof spirit, two pints. Macerate for fourteen days, and strain. A stimulating carminative. The dose is from a fluid drachm to three

Tincture. See Tinctura. Tincture of assafatida. See Tinctura æssafætidæ. Tincture of black hellebore. See Tinctura hellebori nigri.

Teneture of blistering fly. See Tinctura lytta. Teneture of calumba. See Tenetura calumba. Tincture of capsu um. See Tinctura capsici. Tincture of cardamom. See Tenctura cardamomi. Tencture of cascardla. See Tenctura cascarilla. Tencture of castor. See Tinctura castorei. Tincture of catechu. See Tinctura catechu. Tincture of cinchona. See Tinctura cinchona. Tracture of cinchona. See Tractura cinchona. Tracture of cincamon. See Tractura cincamomi. Tracture of for glove. See Tractura digitalis. Tincture of guaincam. See Tractura guainci. Tracture of guaincam, ammoniated. See Tractura guainci ammoniate.

Tincture of genger. See Tinctura zingiberis. Pineture of henbane. See Tenetura hyoscyami. Teneture of hops. See Tenetura humali. Teneture of jalap. See Tenetura jalopa. Tineture of keno. See Tenetura keno. Teneture of myrrh See Tenetura myrrha

Tincture of opium. See Tinctura opii. Tincture of orange-peel. See Tinctura aurantii. Tincture of rhuburb. See Tinctura rhei. Tincture of senna. See Tinctura senna.

Incture of serpentary. See Tructura serias. Tincture of serpentary. See Tinctura seilla. Tincture of squills. See Tinctura seilla. Tincture of valerian. See Tinctura valeriane. Tincture of valerian, ammoniated. See Tinctura valerianæ ammoniata.

Tincture, compound, of alves. See Tinctura alocs composita.

Tincture, compound, of benzoin. See Tinctura benzoini composita.

Tincture, compound, of camphor. See Tinctura camphore composita. Tincture, compound, of cardamom. See Tinctura

cardamomi composita Tincture, compound, of cinchona. See Tinctura

cinchone composita. Tincture, compound, of cinnamon. See Tinctura

cinnamomi composita. Tincture, compound, of gentian. See Tincture gentianæ composita.

Tincture, compound, of rhubarb. See Tinctura rhei

Tinea. (Tinea; from teneo, to hold.) Tinea captis. The scatch head. A genus of diseases in the Class Locales, and Order Dialyses, of Cullen; characterized by small ulcers at the root of the hairs of the head, which produce a friable white crust.

Tin-glass. See Bismuth.
TINNITUS. (Tinnitus, us, m.; a ringing.) A ringing or tingling noise

There a trigging noise.

Tinntive attrium. A noise like ringing or tingling in the cars. A species of paracusis. See Paracusis.

TISSUE. A term introduced by the French anatomists to express the textures which compose the different organs of animals. These have chemical and physical properties which it is important to study on the dead subject and in the living animal. We find in them almost all the physical qualities which are ob-served in inorganic bodies; different degrees of con-sistence from extreme hardness to fluidity, elasticity, sistence from extreme naraness to minity, ensuring, transparency, refractiveness, &c.; but we are particularly attracted by certain qualities which have been named the properties of tissue. These are the extensibility and contractility of tissue; the contractility par racornissement, from crispation. Independently of these physical qualities, the tissues have been studied in respect of their composition, and it has been found that some are principally composed of gelatine, others of abumen, others of phosphate of lime, others of fibrine, and so on. These various textures present also, in the living animal, certain phenomena which have not failed to attract the attention of physiologists.

have not failed to attract the attention of physiologists. TITANITES. A name given to certain ores of titanium which contain that metal in a state of oxide. TITA'NIUM. This is a lately discovered metal. It was first noticed by Macgregor as xi-ting in the state of an oxide mixed with iron, manganese, and silex, in a grayish-black sand found in the vale of Menachan, in Cornwall, and thence mand menachanite, or oxide of titanium, combined with iron. It has since been discovered by Klaproth in an ore named triangle, or oxide of titanium, combined with line and silex. This ore covered by Islapioth, in an ore handed mountained of trainium, combined with line and silex. This ore is generally met with crystallized in four-sided prisms, not longer than a quarter of an inch. Its colour is a yellowish-red, or blackish-brown; it is opaque, and of an imperfect lustre. It breaks with a foliated, unexen, or conchoidal fracture. It exists also in an ore caffed red schorl, of Hungary, or red oxide of titanium. This ore, which is found generally crystallized in rectangu-lar prisms, is of a brownish-red colour, of the specific gravity 4.2, and its texture foliated. In all these ores titanium exists in the state of an oxide.

Properties of titanium.—Titanium has been only obtained in very small agglutinated grains. It is of a obtained in very small agglutinated grains. It is of a red-yellow and crystalline texture, brittle, and extremely refractory. When broken with a hummer, while yet hot from its recent reduction, it shows a change of colours of purple, violet, and blue. In a very intense heat it is volatilized. Most of the acids have a striking action on this metal: though nitric acid has little effect upon it. It is very oxidable by the muritaic acid. It is not attacked by the alkalies. Nitro-muriatic acid converts it into a white powder. Sulphuric acid, when boiled upon it, is partly decom-

posed. It is one of the most infusible metals. It does not combine with sulphur, but it may be united to phosphorus. It does not alloy with copper, lead, or arse-It does nic, but combines with iron.

Method of obtaining titanium.—It is extremely diffi-cult to reduce the oxide of titanium to the metallic cult to reduce the oxide of thanum to the metanic state. However, the experiments of Klaproth, Hecht, and Vauquelin have proved its reducibility. Accord-ing to the two latter, one part of oxide of tetanium is to be melted with six of potassa; the mass, when cold, is to be dissolved in water. A white precipitate will be formed which is carbonate of titanium. This carbe formed which is carbonate of Itanium. This car-bonate is then made into a paste with oil, and the mix-ture is put into a crucible filled with charcoal powder and a little alumine. The whole is then exposed for a few hours to the action of a strong heat. The metal-lic titanium will be found in the form of a blackish puffed-up substance, possessing a metallic appear-

[A very curious ore of titanium, one of the newly discovered metals, has been found to exist in Jersey. A specimen of considerable size had been presented, several years ago, by Mr. Alber to Dr. Mitchill, as an ore of zinc. But it not appearing thin to be an ore of zinc, and indeed, his mind remaining rather uncertain as to what it truly was, he laid it ing rather uncertain as to what it truly was, he laid it aside in his cabinet, and at length furnished Professor Bruce with a part of it. This able mmeralogist has not only made it a subject of experiment himself, but has taken the opinion of some of his chemical correspondents in Europe upon it; and it is their united opinion that it is composed chiefly of the oxide of titanium, combined with the other form of the metal, which, from its having been found in the valley of Menachan in Cornyall England has been called Menachan, in Cornwall, England, has been called Menachanite.

A further account of this remarkable substance is contained in a letter, from Professor Woodhouse to Senator Mitchill.

"The following experiments were performed upon the mineral found in New-Jersey, which I received from you in the year 1805, which was then supposed, by the person who presented it to you, to be an ore of zine, and which Count Bournon has declared to be composed of iron and titanium.

"The specific gravity of this mineral is 5.28. viewed, it has the appearance of black spots, the size viewed, it has the appearance of black spots, the size of duck shot, surrounded by a red substance; and streaks of a white powder, (which is lithormarge,) are dispersed through it. Upon looking through a microscope, a crystal of titanium was seen adhering to it. One hundred grains of it, reduced to an impalpable powder, and exposed one hour to the intense heat of an air furnace, lost fifteen grains in weight, and from a brown was turned to a black colour.

"One hundred grains of it, submitted to heat in the same manner with charcoal, produced a great number of small globules of pure iron. This metal can be separated from the powder by a magnet.

"One hundred grains of it, holied in aqua regia, was testly solds in this comparison."

totally soluble in this agent, which proves it contains

"The prussiate of potash, added to this solution,
"The prussiate of potash, which when dried, weighed yielded a blue precipitate, which, when dried, weighed three bundred grains. Now, if we divide this sum by six, we shall have the quantity of metallic iron in the hunared grains of the ore, which is fify.

"A portion of lime was thrown down from a solu-

tion of the mineral in aqua regia, by the oxalate of potash. Carbonate of ammonia, and a solution of potash produced a copious white and gelatinous pre-

One hundred grains of it were mixed with six hundred of potash, and submitted to intense heat one hour, in a blacklead crucible. The part remaining in the crucible was powdered, boiled in water, and filtered. Upon adding a small portion of muriatic acid to the water, a white precipitate was thrown down, which was supposed to be the titanium. Upon collecting it, and mixing it with a small portion of spermaceti oil and charcoal, it was exposed to the heat of a blacksmith's forge, when nothing was obtained but a shining, heavy, black substance, of the appearance of glass. One hundred grains of it were mixed with six

glass.
"When the muriatic acid was added in excess to the filtered water obtained, by boiling the residue, which remained in the crucible, in water, no precipi-

ring south of the inneral in miric gold is as-tringent to the taste.

"The ore appears to be composed of iron, titanium, lime, alumina, and no silictous earth."—Med. Repos.

From the above it appears that the ores of titanium are of very frequent occurrence within the United States. The locality of the specimens described, as States. The locality of the specimens described, as far as could be ascertained, tend to confirm the opinion of Werner, as to titanium being one of the oldest of metals. Should this metal bereafter be applied extensively to the arts, it is presumed that the United States will be enabled to furnish any quantity required .-

Min. Jour. A. TITHY MALUS. (From riθoς, a dug, and μαλος, tender: so called from its smooth leaves and milky juice.) Spurge. Two plants are directed for medicinal purposes by this name. See Euphorbia paradias,

and Esula minor.

TITHYMALUS CYPARISSIUS. See Esula minor.

TITHYMALUS CYPARISSUS. See Esula minor.
TITHYMALUS PARALIOS. See Euphorbia paralias.
TITHYMALE'A. See Daphne gnidium.
TITI'LISCUM. (From titillo, to tickle: 80 called from its being easily tickled,) The arm-pit.
TOAD-FLAX. See \*\*Jaterrhinum linaria.
TOBACCO. See Nicoliana.

Tobacco, Seglish. See Nicotiana rustica.
Tobacco, Virginian. See Nicotiana.
TOE. Digitus pedis. The toes consist of three distinct bones disposed in rows, called phalanges, or rank of the toes. The great toe has buttwo phalanges: rank of the foes. The great toe has but two pinanges, the others have three ranks of bones, which have nothing particular, only the joints are made round and free, formed by a round head on one bone, and by a

pretty deep hollow for receiving it, in the one above it.
Toffano, some of an infanous woman, who resided at Palermo,
and afterward at Naples, who sold this poison.) See

Aquetta.

Tolu balsam. See Toluifera balsamum.
TOLUI'FERA. (So called because it produces the balsam of Peru.)
The name of a genus of plants in the Linnman system. Class, Decandria; Order,

Monogynia. TOLUIFERA DALSAMUM. The systematic name of the tree which affords the Tolu balsam. Balsamum tolutanum. Balsam of Tolu. It grows in South America, in the province of Tolu, behind Carthagena. whence we are supplied with the balsam, which is brought to us in little gourd-shells. The balsam is obtained by making incisions into the bark of the tree. and is collected into spoons, which is made of black wax. from which it is poured into proper vessels. It thickens, and in time becomes concrete: it has a fragrant colour, and a warm, sweetish taste. solves entirely in alkohol, and communicates its odour and taste to water, by boiling. It contains acid of benzoin. This is the mildest of all the balsains. It has been used as an expectorant; but its powers are very inconsiderable, and it is at present employed principally on account of its flavour, somewhat resembling that of lemons. It is directed, by the pharmacopeias, in the Syrupus solutanus, Tinctura tolutana, and Syrupus balsamicus.
Tolutanum Balsamum.

TOLUTANUM BALSAMUN. See Toluifera balsamum. TOMATUM. Love apple. See Solanum lycoper-

TOMBAC. A white alloy of copper with arsenic Tombel'um. (From τεμνω, to cut.) An incision-

Knife.
Tomenti<sup>\*</sup>Tia. (From tomentum, a flock of wool; so called from its soft coat.) Cotton-weed.
TOMENTOSUS. Downy. Applied to stems, leaves, &c. as the stem of the Geranium rotundifolium.
TOMENTUM. (Tomentum, i. n.; a flock of wool.)
1. This term is used in anatomy to the small vessels of the brain, which appear like wool.

2. In botany, a species of pubescence, very soft to the touch, of a white, or ferruginous colour, giving the surface a downy appearance, and so thick that they Cannot be seen separately.

Tomentum cerebri. The small vessels that pene

rate the cortical substance of the brain from the pia mater, which, when separated from the brain, and ad-hering to the pia mater, give it a focky appearance. TONGUE. Lingua. A soft, fleshy viscus, very

tate was produced, until a solution of potash was added to neutralize the acid.

"The solution of the mineral in nitric acid is as tringent to the taste.

"The gamears to be compared of the mineral constituting the organ of taste. It is divided into a base, body, and back, an inferior surface, and two lateral parts. It is composed inferior surface, and two lateral parts. It is composed inferior surface, and two lateral parts. of muscular fibres, covered by a nervous membrane, on which are a great number of nervous papillæ, paron which are a great number of nervous papins, par-ticularly at the apex, and lateral parts, the rete muco-sum, and epidermis. The arteries of the tongue are branches of the rauine and labial. The veins empty themselves into the great linguals, which proceed to the external jugular. The nerves come from the eighth, ninth, and fifth pair. The use of this organ is for chewing, swallowing, sucking, and tasting. also Taste.

Tongue-shaped. See Lingulatus.
TONIC. (Tonicus, Τουκος; from τεινω, to pull or draw.) 1. A rigid contraction of the muscles, without relaxation, as in triennus, tetanus, &c. See Tetanus. Medicines which

2. (From 70000, to strengthen.) Medicines which increase the tone of the muscular fibre, such as vege-

Toles; Toles. An oblong, suboval gland, situate of the first part the mouth by twelve or more large excretory ducts.

TOOTH. See Teeth.

TOOTHACHE. See Odontalgia.
Tooth-shaped. See Dentatus.
TOPAZ. According to Jameson this mineral species TOPAZ. According to Jameson this mineral species contains three subspecies common topaz, schorine,

Common topaz is of a wine-yellow colour, in granular crystallized concretions, harder than emerald. It comes from the Brazils, Siberia, Asia Minor, and Saxony. It forms an essential constituent of the topaz-rock.

TOPAZOLITE. A variety of precious garnet found

TO PHUS. (Toph, Hebrew.) A toph. Epiporoma, a soft swelling on a bone.) The concretion on TO PICAL. (From roπos, a place.) Medicines applied to a particular place. Medicines

TOPINA'RIA. A species of tumour in the skin of the

TO'RCULAR. (From torques, to twist.) The tour niquet: a bandage to check hamorrhages after wounds or amoutations.

TORCULAR HEROPHILI. Lechenon; Lenos. The press of Herophilus. That place where the four sinuses of the dura mater meet together, first accurately described by Herophilus, the anatomist.

TORDY'LIUM. (Tordylium, ii, n. Quasi tortilium; from torqueo, to twist: so named from its tortuous branches, or from the neat orbicular figure of its seed, which seem as if artificially wrought or turned.) Che name of a genus of plants in the Linnwan system.

Tlass, Pentandria; Order, Digynia
Tordyllum officinale. The systematic name of
the officinale seseli creticum. The seeds are said to be diuretic

TORMENTIL. See Tormentilla.

TORMENTI'LLA. (From tormentum, pain; because it was supposed to refieve pain in the teeth.)

1. The name of a genus of plants in the Linnaar system. Class, leosandria; Order, Monogynia.

2. The pharmacopæial name of the upright stepfoil.

See Tormentilla erecta. See Tormentilla erecta.

Tormentilla erecta.

Tormentilla erecta.

Tormentilla—caule erectiusculo, folicis sesseitius, of Linesus. The root is the only part of the plant which is used medicinally; it has a strong styptic taste, but imparts no peculiar sapid flavour; it has been long held in estimation as a powerful adstringent; and, as a proof of its efficacy in this way, it has been substituted for oak back in the tanning of skins for leather. Tormentil is ordered in the pulvis cretæ-compositius, of the London-Pharmaconceia.

leather. Formenth is ordered in the puccis ordermoscine, of the London Pharmacopæia.

TO RMINA. Severe pains.

TO RPOR. A numbness, or deficient sensation. TO RPOR. A numbness, or deficient sensation.
TORTICO'LLIS. (From torqueo, to twist, and
collum, the neck.) The wry neck.
TORTULOSUS. A little swelling out

TORTULOSUS. A little swelling out. to the knotty pod of the Khaphanus sativus.

Tortuka ossis. The locked jaw.

TOTA BONA. See Chenopodium bonus henricus.
TOUCH. Tactus. "By touch we are enabled to know the properties of bodies; and as it is less subject to deception than the other senses, enabling us in certain cases to clear up errors into which the others have led us, it has been considered the first and the most ex-cellent of all the senses; but several of the advantages which have been attributed to it by physiologists and metaphysicians should be considerably limited.

We ought to distinguish tact from touch. We ought to distinguish tact from touch. Tact is, with some few exceptions, generally diffused through all our organs, and particularly over the cutaneous and mucous surfaces. It exists in all animals; while touch is exerted evidently only by parts that are intended particularly for this use. It does not exist in all animals, real its investigations of the content 18 exerted evidently only by parts that are internous parts coularly for this use. It does not exist in all animals, and it is nothing else but tact united to muscular contractions directed by the will.

In the exercise of tact, we may be considered as passive, while we are essentially active in the exercise

of touch.

Physical properties of bodies which employ the action of touch. Almost all the physical properties of bodies are susceptible of acting upon the organs of touch; form, dimensions, different degrees of consistence, weight, temperature, locomotion, vibration, &c. are all so many circumstances that are exactly appreciated by the touch.

The organs destined to touch do not alone exercise this function; so that in this respect the touch differs much from the other senses. As in most cases it is the skin which receives the tactile impressions produced by the bodies which surround us, it is necessary to say something of its structure.

The skin forms the envelope of the body; it is lost in the mucous membranes at the entrance of all the cavities; but it is improper to say that these membranes are a continuation of it.

The skin is formed principally by the cutis vera, a fibrous layer of various thickness, according to the norous layer or various thickness, according to the part which it covers; it adheres by a cellular tissue, more or less firm, at other times by fibrous attachments. The cutis is almost always separated from the subjacent parts by a layer of a greater or less thickness, which is of use in the exercise of touch.

The external side of the cutis vera is covered by the

epidermis, a solid matter secreted by the skin. ought not to consider the epidermis as a membrane ought not to consider the charge is a homogeneous layer, adherent by its internal face to the chorion, and full of a great number of holes, of which the one sort are for the passage of the hair, and the other for that of cutaneous perspiration; they serve at the same time for the absorption which takes place by the skin. These last are called the pores of the skin.

It is necessary to notice, with regard to the epidermis, that it is void of feeling; that it possesses none of the properties of life; that it is not subject to putrefaction; that it wears and is renewed continually; that its thickness augments or lessens as it may be necessary: it is even said to be proof to the action of the digestive

organs
The connexion of the epidermis to the cutis vera is very close; and yet it cannot be doubted that there is a particular layer between these two parts, in which certain particular phenomena take place. The organization of this layer is yet little known. Mahjight believed it to be formed of a particular mucus, the existence of which has been long admitted, and which bore the name of the corpus mucosum of Malpighi. Other authors have considered it, more justly, as a vascular net-work. Gall makes it similar to the gray matter which is seen in many parts of the brain

Gantier, in examining attentively the external surface of the true skin, has noticed some small reddish projections, disposed in pairs; they are easily perceived when the skin is laid bare by a blister. These little bodies are regularly disposed upon the pain of the hand, and on the sole of the foot. They are sensible, and are reproduced when they have been torn out. and are reproduced when they have been formoun. They appear to be essentially vascular. These bodies, without being understood, have been long called the papilla of the skin. The epidermis is pierced by little hoies, opposite their tops, through which small drops of sweat are seen to issue, when the skin is exposed to an elevated temperature. The skin contains a great number of sebaceous follicles; it receives a great number of vessels and nerves, particularly at the Ggg2

points where the sense of touch is more immediately exercised. The mode in which the nerves are terminated in the skin is totally unknown; all that has been said of the cutaneous nervous papille is entirely hypothetical

The exercise of tact and of touch is facilitated by the thinness of the cutis vera, by a gentle elevation of temperature, by an abundant cutaneous perspiration, as well as by a certain thickness and flexibility of the epidermis; when the contrary dispositions exist, the tact and the touch are always more or less im-

perfect.

Mechanism of tact .- The mechanism of tact is extremely simple; it is sufficient that bodies be in contact with the skin to furnish us with data, more or less exact, of their tactile properties. By tact we judge particularly of the temperature. When bodies deprive us of caloric, we call them cold; when they yield it to es, we say they are hot; and according to the quantity of caloric which they give or take, we determine their different degrees of heat or cold. The notions that we have of temperature are, nevertheless, far from being exactly in relation to the quantity of caloric that bodies yield to us, or take from us; we join with it unawaies a comparison with the temperature of the atmosphere, a comparison with the temperature of the atmosphere, in such a manner that a body colder than ours, but hotter than the atmosphere, appears hot, though it really deprive us of caloric when we touch it. On this account, places which have a uniform temperature, such as cellars or wells, appear cold in summer, and hot in winter. The capacity also of bodies for zaloric has a great influence upon us with regard to temperature; as an example of this, we have only to notice the great difference of sensation undured by ron and the great difference of sensation produced by iron and wood, though the temperature of both be the same.

A body which is sufficiently hot to cause a diemica.

decomposition of our organs produces the sensation of burning. A body whose temperature is so low as to absorb quickly a great portion of the caloric of any part, produces a sensation of the same sort nearly: this may be proved in touching frozen mercury.

The bodies which have a chemical action upon the

epidermis, those that dissolve it, as the caustic alka-lies, and concentrated acids, produce an impression which is easy to be recognised, and by which these bodies may be known.

Every part of the skin is not endowed with the same sensibility; so that the same body applied to different points of the skin in succession will produce a

series of different impressions.

The mucous membranes possess great delicacy of tact. Every one knows the great sensibility of the lips, the tongue, of the conjunctiva, the pituitary membrane, of the mucous membrane, of the trachea, of the urethra, of the vagina, &c. The first contact of bodies, which are not destined naturally to touch these

boules, which are not destrict naturally to toler these membranes, is painful at first, but this soon wears off.

Alechanism of touch.—In man, the hand is the principal organ of touch; all the most suitable circumstances are united in it. The epidermis is thin, smooth, flexible; the cutaneous perspiration abundant, as well as the oily secretion. The vascular eminences are more numerous there than any where else. cents nera has but little thickness; it receives a great number of vessels and nerves; it adheres to the subja-cent aponeuroses by abrous adhesions; and it is sustained by a highly elastic cellular tissue. mities of the fingers possess all these properties in the highest degree: the motions of the hand are very

numerous, and performed with facility, and it may be applied with ease to any body of whatsoever form.

As long as the hand remains immoveable at the surface of a body, it acts only as an organ of tact. To exercise touch, it must move, either by passing over the surface, to examine form, dimensions, &c., or to press it for the purpose of determining its consistence,

elasticity, &c.

We use the whole hand to touch a body of considerable dimensions; if, on the contrary, a body is very small, we employ only the points of the fingers. This delicacy of touch in the fingers has given man a great advantage over the animals. His touch is so delicate, that it has been considered the source of his intelli-

From the highest antiquity the touch has been considered of more importance than any of the other senses; it has been supposed the cause of human

reason. This idea has continued to our times; it has 'dical Faculty at Paris; and was likewise decorated been even remarkably extended in the writings of 'with the Order of St. Michael. He published about Condillac, of Buffon, and other modern physiologists. the same period several botanical works, of which the Buffon, in particular, gave such an importance to the touch, that he thought one man had little more ability than another, but only in so far as he had been in the habit of making use of his hands. He said it would be well to allow children the free use of their hands from the moment of their birth.

The touch does not really possess any prerogative over the other senses; and it in certain cases it assists the eye or the ear, it receives aid from them in others, and there is no reason to believe that it excres ideas in the brain of a higher order than those which are

produced by the action of the other senses.

internal sensations .- All the organs, as well as the skin, possess the faculty of transmitting impressions to the brain, when they are touched by bodies, or when they are compressed, bruised, &c. It may be said, that they generally possess tact. There must be an exception made of the bones, the tendons, the aponeuroses, the ligaments, &c.; which in a healthy state are insensible, and may be cut, burned, torn, without any thing being felt by the brain.

This important fact was not known to the ancients: they considered all the white parts as nervous, and attributed to them all those properties which we now know belong only to the nerves. These useful results, which have had a great influence upon the recent pro-

gress of surgery, we owe to Haller and his disciples.

All the organs are capable of transmitting spontaneously a great number of impressions to the brain without the intervention of any external cause. They without the intervention of any external cause. wannout the miervention of any external cause. They are of three sorts. The first kind take place when it is necessary for the organs to act; they are called wants, instinctine desires. Such are hunger, thirst, the necessity of making water, of respiration, the venereal inpulse, &c. The second sort take place during the action of the organs; they are frequently obscure, sometimes very violent. The impressions which accompany the different excretions, as of the semen, the wrine, are of this number. semen, the urine, are of this number.

Such are also the impressions which inform us of our motions, of the periods of digestion :- even thought

seems to belong to this kind of impression.

The third kind of internal sensations are developed when the organs have acted. To this kind belongs the feeling of fatigue, which is variable in the different sorts of functions.

The impressions which are felt in sickness ought to be added to these three sorts: these are much more numerous than the others. The study of them is numerous than the others.

absolutely necessary to the physician.

All those sensations which proceed from within, and which have no dependence upon the action of exterior bodies, have been collectively denominated internal

sensations, or feelings."—Magendie's Physiology.
TOUCH ME-NOT. See Noti me tangere.
TOUCHSTONE. Lydian stone. A variety of

flinty slate,
TOUCHWOOD. See Agaricus.
TOURMALINE. Rhomboidal tourmaline is divided into two subspecies, school and tournatine. The latter mineral is of a green, brown, and red colour, in prismatic concretions, rolled pieces, but generally crystallized. It occurs in goeiss, mica-state, tale state, &c. TOURNEFORT, Joseph Pitton Dr., was born at Aix, in Provence, in 1656. He was destined for the church, but a taste for natural knowledge ted him, at

his father's death, to change for the profession of physic. He therefore qualified himself thoroughly in anatomy, chemistry, and other branches of medical study, and likewise distinguished himself as an elegant writer and lecturer; but he displayed especially an ardent devotion to botany, which ever after made the chief object of his life. His zeal in this pursuit led chief object of his life. His zeal in this pursuit led him to encounter considerable danger in exploring the Alps, Pyrenees, &c. during several seasons, passing the intermediate winters at Montpellier; but he is said to have graduated at Orange. His merits as a botanist, soon became conspicuous at Pavis, and the superintendence of the royal garden was resigned to him by Fagon. In this school he soon drew together a crowd of students; but anxious for farther improvements, he travelled into the neighbouring countries, and thus greatly enriched his collections. He was admitted a member of the Academy of Sciences, and of the Me- of very elastic ligamentous fibres; and are enabled by

the same period several botanical works, of which the principal is entitled, "Institutiones Rei Herbarie." In the year 1700, he set out, under royal patronage, on a voyage to the Levant, with the view of investigating the plants of ancient writers, and making new discovery interesting and valuable account of the expedition in French, which was not published, however, till after his death. This took place in 1708, in consequence of his death. This took place in 1708, in consequence of a hurt in the breast, which he received from a car-riage. He left his collection of plants to the king, who bestowed in return a pension of a thousand lives on his nephew. Besides the botanical works published by him, he is said to have left several others in manu One object, which had occupied much of his attention, was to determine the medical virtues of plants by a chemical analysis; but the loss of these labours is not to be regretted, as those of Geoffroy, on the same plan, turned out to be without any solid advantage. The elegance and facility of Tournefort's botanical method gained him many followers at hist; but it has since been superseded by that of Linnaus. which is much more systematic and comprehensive. Still, however, it must be acknowledged, that the generic distinctions established by the former botanist and most accurately delineated, have been the principal foundation of subsequent improvements.

TOURNIQUET. (French; from tourner, to turn.) An instrument used for stopping the flow of blood into

a limb.

TOXICA'RIA. (Toxicaria, e, f.; from rotinor, a poison: so called from its poisonous quality.) The name of a plant.

Toxicaria macassariensis. An Indian poison obtained from a tree hitherto undescribed by any medical botanist, known by the name of Boss-upas: it is a native of Southern Asia. Concerning this plant, various and almost incredible particulars have been related, both in ancient and modern times; some of them true, others probably founded on superstition. Rumphius testifies that he had not met with any other more dreadful product from any vegetable. And he adds, that this poison, of which the Indians boast, was much more terrible to the Dutch than any warlike instrument. He likewise says, it is his opinion, that it is of the same natural order, if not of the same genus,

TOXICODE'NDRUM. (From τοξικον, a poison, and δενάρον, a tree.) The poison-tree, which is so noxious that no insects ever come near it. See Rhus

toxicodendron

TOXICOLOGY. (Toxicologia; from τοξον, an arrow or how; because the dark of the ancients were usually besineared with some poisonous substance; and  $\lambda oyns$ , a discourse.) A dissertation on poisons See Paison

TO'XICUM. (From τοξον, an arrow, which was sometimes poisoned.) A deadly poison. See Poison. Τοχιτε'sια. The artemisia or inugwort.

TOXITE'SIA. The artemisia or inugwort.
TRABE'CULA. (Trabecula, a small beam.)

word is mostly applied by anatomists to the small me-dullary fibres of the brain, which constitute the com-

TRA'CHEA. (So called from its roughness; from τραχυς, rough.) The windpipe. The trachea is a cartilaginous and membranous canal, through which carrinaginous and memoranous canai, through which the air passes into the lungs. It upper part, which is called the larynx, is composed of five cartilages. The uppermost and smallest of these cartilages is placed over the glotis or mouth of the larynx, and is called epiglotis, as closing the passage to the image in the act of swallowing. The sides of the larynx are composed of the two states of the larynx are composed of the two arytenoid cartilages, which are The anterior and larger part of the laryox is made up of two cartilages, one of which is called thyroides or scuttionnis, from its being shaped like a buckler; and the other cricoides or annularis, from its resembling a ring. Both these cartilages may be felt immediately under the skin, at the forepart of the thorax, and the there is said at the torpart of the therax, and the thyroides, by its convexity, forms an eminence called the pomum adami, which is usually more considerable in the male than in the female subject.

All these cartilages are united to each other by means

the assistance of their several muscles, to dilate or contract the passage of the larynx, and to perform that variety of motion which seems to point out the larynx as the principal organ of the voice; for when the air passes through a wound in the trachea, it produces little or no sound.

These cartilages are moistened by a mucus, which seems to be secreted by minute glands situated near them. The upper part of the trachea, and the cricoid and thyroid cartilages, are in some measure covered anteriorly by a considerable body, which is supposed to be of a glandular structure, and from its situation is called the thyroid gland, though its excretory duct has not yet been discovered, or its real use ascertained. The glottis is entirely covered by a very fine membrane, which is moistened by a constant supply of watery fluid. From the larynx the canal begins to take the name of trachea, or aspera arteria, and extends from thence as far down as the fourth or fifth vertebræ of the back, where it divides into two branches which are the right and left bronchial tube. Each of these bronchia ramifies through the substance of that lobe of the lungs, to which it is distributed by an infinite number of branches, which are formed of cartilages separated from each other like those of the trachea, by an intervening membranous and ligamentary substance. Each of these cartilages is of an annular figure; and as they become gradually less and less in their diameter, the lower ones are in some measure received into those above them, when the lungs, after being inflated, gradually collapse by the air being pushed out from them in expiration. As the branches of the bronchia become more minute, their cartilages become more and more annular and membranous, till at length they become perfectly membranous, and at last become invisible. The trachea is furnished with last become invisible. The trachea is furnished win fleshy or muscular fibres, some of which pass through its whole extent longitudinally, while the others are carried round it in a circular direction, so that by the contraction or relaxation of these fibres, it is enabled to shorten or lengthen itself, and likewise to dilate or contract the diameter of its passage. The trachea and in the state in all their multipartions are furnished. its branches, in all their ramifications, are furnished with a great number of small glands which are lodged in their cellular substance, and discharge a mucous fluid on the inner surface of these tubes.

The cartilages of the trachea, by keeping it constantly open, afford a free passage to the air which we are obliged to be incessantly respiring; and its membra-nous part, by being capable of contraction or dilatation. enables us to receive and expel the air in a greater or enames us to receive and experime ar in a greater or dess quantity, and with more or less velocity, as may be required in singing and declamation. This mem-branous structure of the trachea posteriorly, seems likewise to assist in the descent of the food, by preventing that impediment to its passage down the œsophagus, which might be expected, if the cartilages were complete rings. The trachea receives its arteries from complete rings. The traches receives us arreires from the carotid and subclavian arteries, and its veins pass into the jugulars. Its nerves arise from the recurrent branch of the eighth pair, and from the cervical plexus. TRACHELA'GRA. (Trachelagra, e., f.; from roxxnhos, the throat, and ayoa, a seizure.) The gout

TRACHE'LIUM. (Trachelium, ii, n.; from τρα-χηλος, the throat: so called from its efficacy in diseases of the throat.) The Campanula trackelium, of Lin-neus, or herb throat-wort.

næus, or herb throat-wort.

TRACHELO. (From τραχηλος, the neck.) Names compounded of this word belong to muscles, &c. which are a 'tached to the neck; as Trachelo-mastoideus.

TRACHELOCE'LE. (From τραχεια, the windpipe, and κηλη, a tumour). A tumour upon the trachea.

A bronchocele.

TRACHELO-MASTOIDEUS. A muscle situated on the neck, which assists the complexus, but pulls the head none to one side. It is the complexus minor seu mastoideus lateralis, of Winslow. Trachelo-mastoidien, of Dunnas It is since few in the complex of toideus lateralis, of Winslow. Trachelo-mastoidien, of Dumas. It arises from the transverse processes of the five inferior cervical vertebre, where it is connected with the transversalis cervicis, and of the three superior dorsal, and it is inserted into the middle of the posterior part of the mastoid process.

TRACHELO'PHYMA. (From τραχηλος, the throat, and φυμα, a tumour.) A swelling of the brouchial gland.
TRACHE'LOS. (From τραχυς, rough; because of the rough cartilages.) The wind-pipe. See Trachea.

TRACHEOTOMY. (Tracheotomia, e, f.; from τραχεια, the trachea, and τεμνω, to cut.) See Bron-

TRACHO'MA. (Trackoma, atis, n.; from reaves, rough.) An asperity in the internal superficies of the eyelid. The effects are a violent ophthalmia, and a severe pain, as often as the eyelid moves. The species are.

Trackoma sabulosum, from sand falling between the eye and the eyelid of persons travelling, blown by a high wind; this happens chiefly in sabulous situations, and may be prevented by spectacles for the purpose, or by guarding against the flights of sand by covering the eyes.

2. Trachoma carunculosum, which arises from caruncles, or fleshy verruce, growing in the internal superficies of the eyelid. This species of the trachoma is ficies of the eyelid. This species of the trachoma is called morum palpebra interna, because the tubercu-

lous internal superficies appears of a livid red like a mulberry. Others call these caruncule pladorotes.

3. Trachoma herp-ticum, which are hard pustules in the internal superficies of the cyclids. This is also called ficosis, and palpebra ficosa, from its resemblance to the granulated substances in a cut fig. With the Greeks, it is denominated atomablepharon, or prop-

TRACHYTE. A rock of igneous origin, principally composed of felspar. It has generally a porphyritic structure

TRAGACANTH. See Astragalus.
TRAGACA'NTHA. (Tragacantha, æ, f.; from rpayos, a goat, and axar9a, a tnorn: so called from its pods resembling a goat's beard.) See Astragalus tra-

gracantha.

TRA'GICUS. A proper muscle of the ear, which pulls the point of the tragus a little forward.

TRA'GIUM. (From τραγος, a goat: so named from its fittly smell.) I. The name of a genus of plants. Class, Pentandria; Order, Digymia.

2. The bastard dittanty, or Dictamenus albus.

TRAGO CERUS. (From τραγος, a goat, and κερας, a horn: so named from the supposed resemblance of its leaves to the horn of a goat.) The aloc.

TRAGOPOGON. (Tragopogon, onis, m.; from τραγος, a goat, and αγραγος a beaut: so called because

TRACOTO GON. (170g opogon, oms, in.), from τραγος, a goat, and πωγων, a beard: so called because its downy seed, while enclosed in the callyx, resembles a gont's beard.) 1. The name of a genus of plants in the Linnan system. Class, Syngenesia; Order, Po-

lygamia.

2. The pharmacopæial name of the common goat's

TRAGOPOGON PRATENSE. The systematic name of the common goat's beard. The young stems of this one common goar's beard. The young stems of this plant are caten like appragus, and are a pleasant and wholesome food. The root is also excellent, and was formerly used medicinally as a diuretic.

TRAGOPYTUM. (Tragopyrum, i, n; from rpayos, a goat, and wopen, wheat: so named from its beard.) Buck-wheat.

TRAGO'RCHIS. (Tragorchis, is, m.; from rpayos, a goat, and opyis, a testicle: so named from the supposed resemblance of its roots to the testicles of a goat.) A species of orchis

TRAGORI'GANUM. (Tragoriganum, i, n.; from τραγυς, a goat, and οριγανου, marjoram: so called because goats are fond of it.) A species of wild mar-

TRAGOSELI'NUM. (Tragoselinum, i, n.; from τραγος, a goat, and σελινον, parsley: named from its hairy coat like the beard of a goat.) The burnet saxi-

nary coat like the beard of a goal.) The burnet saxifrage. See Pimpinella saxifrage.

TRA'GUS. (Tpayos. Tragus, i, m.; a goat: so called from its having numerous little hairs, or from its being hairy like the goat.) 1. In anatomy. A small cartilaginous eminence of the surioular or external ear, placed americrly, and connected to the anterior extre-mity of the helix. It is beset with numerous little hairs, defending, in some measure, the entrance of the external auditory passage.

2. In botany. This name has been variously ap

plied, by Dioscorides, to meal or flour, and to a maritime shrub.

TRALLIAN. ALEXANDER, a learned and inge nious physician, who was born at Tralles, in Lydia, and flourished at Rome under the emperor Justinian, about the middle of the sixth century. Like Hippo crates, he travelled over various countries to improve

TRA

his knowledge. Besides improving upon many of the compositions then employed, he invented several others and particularly introduced the liberal use of the preparations of iron. He principally followed the practice of Hippocrates and Galen, but not indiscriminately. He appears, however, to have had too great faith in charms and amulets, which was the common error of the age in which he lived.

age in which he lived.

TRA/MIS. Tpaµ15. The line which divides the scrotum, and runs on to the anus. See Raphe.

TRANSFUSION. (Transfusio; from transfundo, to pour from one vessel into another.) The transmission of blood from one living animal to another by means of a canula. "Harvey was thuty years before head of the divided there was the model of the second of he could get his discovery admitted, though the most evident proofs of it were every where perceptible; but as soon as the circulation was acknowledged, people's minds were seized with a sort of delirium: thought that the means of curing all discases was found, and even of rendering man immortal. The cause of all cur evils was attributed to the blood; in order to cure them, nothing more was necessary but to remove the bad blood, and to replace it by pure blood, drawn from a result guingle. from a sound animal.

The first attempts were made upon animals, and they I he arst attempts were made upon animats, and they had complete success. A dog having lost a great part of its blood, received, by transfusion, that of a sheep, and it became well. Another dog, old and deal, regained, by this means, the use of hearing, and seemed to recover its youth. A horse of twenty-six years having received in his veins the blood of four lambs, he

recovered his strength.

Transfusion was soon attempted upon man. and Emerez, the one a physician, the other a surgeon of Paris, were the first who ventured to try it. They of Paris, were the first who ventured to try it. They introduced into the veius of a young man, an idiot, the blood of a calf, in greater quantity than that which had been drawn from them, and he appeared to recover his reason. A leprous person, and a quartan ague, were also cured by this means; and several other transfusions were made upon healthy persons without any disagreeable result.

However, some sad events happened, to calm the general enthusiasm caused by these repeated successes. The young idiot we mentioned fell into a state of madness a short time after the experiment. He was sub-mitted a second time to the transfusion, and he was immediately seized with a hamaturia, and died in a state of sleepiness and torpor. A young prince of the blood royal was also the victim of it. The parliament of Paris prohibited transfusion. A short time after, G. Riva, having, in Italy, performed the transfusion upon two individuals, who died of it, the pope prohibited it also.

From this period, transfusion has been regarded as

From this period; transitisting has been regarded as useless, and even dangerous."

TRANSPARENCY. Diaphaneity. A quality in certain bodies, by which they give passage to the rays of light. It is opposed to opacity; hence Cornea transparents, and Cornea opace.

TRANSPIRATION. (Transpiratio; from trans, because the propher transpiratio).

through, and spiro, to breathe.) See Perspiration.
TRANSUDATION. Transudatio. The passing
through the cells or pores of any thing. The term
should be distinguished from perspiration, which implies a function, by which the perspired fluid is secreted from the blood, whereas, by transudation, the blood or other fluid merely passes or oozes through unaltered.

TRANSVERSA'LIS. Transverse.

TRANSVERSALIS ABDOMINIS. A muscle situated on the anterior part of the addomen: so named from its direction. It arises internally or posteriorly from the cartilages of the seven lower ribs, being there connected with the intercostals and diaphragm, also from the transverse process of the last vertebra of the back, from the those of the four upper vertebre of the loins, from the inner edge of the crista illi, and from part of Poupart's ligament, and it is inserted into the inferior bone of the sternum, and almost all the length of the linea alba Its use is to support and compress the abdominal

TRANSVERSALIS ANTICUS PRIMUS. See Rectus capi

tis lateralis.

Transversalis cervicis. See Longissimus dorsi.

Transversalis colli. A muscle, situated on the posterior part of the neck, which turns the neck obliquely backwards, and a little to one side.

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TRANSVERSALIS DORSI. See Multifidus spine. TRANSVERSALIS MAJOR COLLI. See Longissimue TRANSVERSALIS PEDIS. A muscle of the foot, which it contracts, by bringing the great toe and the two outer-

most toes nearer each other. TRANSVERSE SUTURE. Sutura transversalis. This sature runs across the face, and sinks down into the orbits, joining the bones of the skull to the bones of the face; but with so many irregularities and interruptions,

that it can scarcely be recognised as a suture.

Transverso-spinales. See Multifidus spine.
Transversus auris. A muscle of the external ear,
which draws the upper part of the concha towards the

TRANSVERSUS PERINAI. (Musculus transversus ringi.) A muscle of the organs of generation which sustains and keeps the perinceum in its proper

place.
Transversus Perinži alter. Prostaticus inferior, of Winslow. A small muscle occasionally found accompanying the former.

TRAP. This term is derived from the Swedish word trappa, a stair. It is applied in geology to rocks principally characterized by the presence of horn-

blende and black iron clay.

TRAPA. (A term given by Linnæus, whose idea is certainly taken from the warlike instrument called caltrop, the tribulus of the ancients, which consisted of four iron radiated spakes, so placed, that one of them must always stand upwards, in order to wound the teet of the passengers. Such is the figure of the singular fruit of this genus; hence named by Tournefort, tribuloides. Culcitanpa, an old botaineal term of similar meaning to tribules is companied to the passengers. milar meaning to trebulus, is compounded, perhaps, of calco, to tread or kick, and  $\tau \rho \varepsilon \pi \omega$ , to turn, because the caltrops are continually kicked over if they fail of their intended mischief: here we have the immediate origin of trapa.) The name of a genus of plants, Class, Tetrandria; Order, Monogynia.
TRAPA NATANS. The systematic name of the plant

which affords the nux aquatica. Tribulus aquaticus. Caltrops. The fruit is of a quadrangular and sometraintips. The finite is of a quadrangurar and somewhat oval shape, including a nut of a sweet farinaceous flavour, somewhat like that of the chesnut, which is apt to constipate the bowels, and produce disease; however, it is said to be nutritious and demulcent, and to be useful in diarrheas from abraded bowels, and against calculus. Likewise a poultice of these nuts is said to be efficacious in resolving hard and

TRAPE ZIUM. (A four-sided figure: so care-omits shape.) The first bone of the second row of (A four-sided figure: so called from its shape.)

TRAPE'ZIUS. (From τραπεζιος, four-square: so TRATE LAUS. (From ragaregos, rolli-square; so named from its shape.) Cucullaris. A muscle situated immediately under the integuments of the posterior part of the neck and back. It arises by a thick, round, and short tendon, from the lower part of a protuberance in the middle of the occipital bone backwards, and from the rough line that is extended from wards, and from the rough line that is extended from thence towards the mastoid process of the os temporis, and by a thin membranous tendon, which covers part of the complexus and splenius. It then runs downwards along the nape of the neck, and rises tendinous from the spinous processes of the two lowermost vertebræ of the neck, and from the spinous processes of all the vertebræ of the back, being inseparably united to its fellow, the whole length of its origin, by tendinous fibres, which, in the nape of the neck, form what is called ligamentum colli, or the cervical ligament. It is inserted fleshy into the broad and posterior half of the clavicle, tendinous and fleshy into one-half of the acromion, and into almost all the spine of the scapula.

This muscle serves to move the scapula in different directions. Its upper descending fibres pull it obliquely upwards; its middle transverse ones pull it directly backwards; its inferior fibres, which ascend obliquely upwards, draw it obliquely downwards and back-

The upper part of the muscle acts upon the neck and head, the latter of which it draws backwards, and turns upon its axis. It likewise concurs with other muscles in counteracting the flexion of the head forwards.
TRAPEZOI'DES OS. The second bone of the

second row of the carpus: so called from its resemblance

to the trapezium, or quadrilateral geometrical figure.
TRAUMATIC. (From τραυμα, a wound.) thing relating to a wound.

TRAVELLER'S JOY. See Clematis vitalba.

TREACLE. See Theriaca.

Treacle. See Theraca.
Treacle, mustard. See Thlaspi.
TREFOIL. (So called because the leaf is formed of three leaflets) See Trifolium.
Trefind marsh. See Menyanthes trifoliata.
TREMOLITE. A subspecies of straight edged augite. There are three kinds, the asbestous, common,

augue. I nereal and characteristics and glassy.

TRE MOR. An involuntary trembling.

TREPAN. Trephine. An instrument used by surgeons to remove a portion of bone from the skull.

TREPHINE. See Trepan.

TREW, CHRISTOPHER JAMES, was born at Lauffen, in Franconia, in 1695; and settled as a physician at be made director of the academy "Nature Curioso-rum." He also contributed much towards establishing a society under the title of "Commercium Literarium Noricum," for the advancement of medical and natural knowledge, which published some valuable memoirs. To these societies he communicated several papers, and he also published some splendid works in anatomy and botany. He died in 1769. TRIANGULA'RIS.

TRIANGULA'RIS. Trigonus. Triangular: a term very generally used in the different departments

term very generally used in the different departments of science, to parts of animals, vegetables, minerals, &c., from their form. See Caulis, Folium, &c.

TRIBULUS. ( $Tp\mu\beta\alpha\lambda\sigma_i$ ; from  $\tau\mu\theta\omega_i$ ) to tear or injure: an instrument of war to be thrown in the way to annoy the enemy's horse: hence the name of an herb from its resemblance to this instrument.)

1. The name of a genus of plants. Class, Decan-

dria; Order, Monogynia. 2. See Trapa natans.

Z. See Trapa nacans.
TRIBULUS AQUARTOUS. See Trapa natans.
TRICA. (Trica, e.f.; from θμξ, τριχρς, a hair: because they seem composed of a horse hair rolled, or partly folded, into a little, round, black head.) A term applied by Dr. Acharius to the black filaments, resembling a curled horse hair, in the Gyrophora and Umbi-Licaria of Hoffman.

TRICAUDA'LIS. (From tres, three, and cauda, a

il.) A muscle with three tails. TRICEPS. (From tree, three (From tres, three, and caput, a head.) Three-headed.

Under this appella-TRICEPS ADDUCTOR FEMORIS. Under this ap Adductor brevis, longus, and magnus femoris.

TRICEPS AURIS. See Retrahentes auris.

TRICEPS AURIS. See Retrahentes auris.

TRICEPS EXTENSOR CUBIT. This muscle, which occupies all the posterior part of the os humeri, is described as two distinct muscles by Douglas, and as three by Winstow. The upper part of its long head is covered by the deltoides; the rest of the muscle is situated immediately under the integuments.

It arises, as its name indicates, by three heads. The first, or long head, (the long head of the biceps externus, of Douglas; axcareus major, of Winslow, as it is called,) springs, by a flat tendon of an inch in breadth, from the anterior extremity of the inferior costs of the scapula, near its neck, and below the origin of the teres minor. The second head, (the short head of the teres minor. The second nead, (the short nead of the biceps externus, of Douglas; anconeus externus, of Winslow), arises by an acute, tendinous, and fleshy beginning, from the upper and outer part of the os humeri, at the bottom of its great tuberosity. The third head, (brackiotis externus of Douglas; anconeus internus, of Winslow,) which is the shortest of the three, originates by an acute fleshy beginning, from the back part of the os humeri, behind the flat tendon of the latissimus dorsi. These three portions unite about the middle of the arm, so as to form one thick and powerful muscle, which adheres to the os humeri to within an inch of the elbow, where it begins to form a broad tendon, which, after adhering to the capsular ligament of the elbow, is inserted into the upper and outer part of the olecranon, and sends off a great number of fibres, which help to form the fascia on the outer part of the foream. The use of this pursual is ber of fibres, which help to form the fascia on the outer part of the forcarm. The use of this muscle is to extend the forearm.

TRICHIA. (From θριξ, a hair.) A disease of the hair. See Trichoma.

TRICHI'ASIS. (From  $\theta_{\rho i \xi}$ , a hair.) Trichosis. I. A disease of the eye-lashes, in which they are turned in towards the bulb of the eye.

2. A disease of the hair. See Trichoma. TRICHI'SMUS. (From  $\theta \rho_i \zeta$ , a hair.) A species of fracture which appears like a hair, and is almost im-

perceptible.
TRICHO'MA. (From τριχες, the hair.) The plaited

TRICHOMANES. (From τριχες, hair, and μανος, thin, lax: so called because it resembles fine hair.) See

thin, lax: so called because it resembles line many)
Asplenium trichomanes.

TRICHOSIS. (Τριχωσις, pilare malum; from θριξ, a hair.) Under this name Good makes a genus of disease in the Class Eccritica, Order Acrotica, of his Nosology. Morbid hair. It has eight species, viz.

Trichosis setosa, plica, hirsutus, distriz. See Plica.

TRICHURIS. (From θριξ, a hair.) The long hair-

TRICOCCUS. (From Tous, three, and KOKKOS, &

grain.) Three-seeded.

grain.) Three-seeded.

TRICOCCE. The name of an order in Linnzus's
Fragments of a Natural Method, consisting of those
which have a triangular capsule with three seeds.

TRICUSPID. (Tricuspis; from tres, three, and
cuspis, a point: so called from their being three-point
ed.) Three-pointed.

The name of the valve in the

TRICUSPID VALVE. right ventricle.

Trifoi, water. See Menyanthes trifoliata.
TRIFO'LIUM. (From tres, three, and folium, a leaf: so called because it has three leaves on each stalk.) The name of a genus of plants in the Linnaan system. Class, Pentandria; Order, Monogynia. Trefoil.

refoil.
TRIPOLIUM ACETOSUM. The wood-sorrer management of the second sectorella.

Illed See Ozalis acetosella.
See Menyanthes trifo-

TRIPOLIUM ARVENSE. Hare's-foot trefoil.
TRIPOLIUM AUREUM. Herb trinity; noble liver-

wort

TRIFOLIUM CABALLINUM. Melilotus.
TRIFOLIUM CÆRULEUM. Sweet trefoil.
TRIFOLIUM FALCATUM. The Auricula muris. See Hieracium pilosella.

Hieracium pilosella.

TRIFOLIUM FIBRINUM. See Menyanthes trifoliata.

TRIFOLIUM MERATICUM. See Inemone hepatica.

TRIFOLIUM MELILOTUS OFFICINALIS. The systematic name of the officinal melilot; Melilotus; Lotus sylvestris; Seratula campana; Trifolium cabullinum; Coroda regia; Trifolium odoratum. This plant has been said to be resolvent, emollient, anodyne, and to participate of the virtues of chamomile. Its taste is unpleasant, subacrid, subsaline, but not bitter; when freeh it has scarcely any smell; in drying, it acquires a pretty strong one of the aromatic kind, but not agree-The principal use of melilot has been in clys-Tripolium odoratum. See Trifolium melilotus

officinalis.

TRIFOLIUM PALUDOSUM. See Menyonthes trifoliata. TRIGE MINI. (Trigeminus, from tres, three, and geminus, double; three-fold). Nervi innominati. The fifth pair of nerves, which arise from the crura of the cerebellum, and are divided within the cavity of the cranium into three branches, viz. the orbital, superior, and inferior maxillary. The orbital branch is divided into the frontal, lachrymal, and nasal nerves; the superior maxillary into the spheno-palatine, posterior alveolar, and infra-orbital nerves; and the inferior maxillary into two branches, the internal lingual, and one more properly called the inferior maxillary.

TRIGONE LLA. (A diminutive of trigona, three-sided, alluding to its little triangular flower.) The name of a genus of plants. Class, Diadelphia; Order,

Decandria.

TRIGONELLA FENUM GRÆCUM. The systematic name of the feenugreek. Fænum græcum; Buceras; Ægoceras. Trigonella—leguminibus sessitibus strictis erectivaculis subfalactis acuminatis, caule creeto, of Linnæus. A native of Montpellier. The seeds are brought to us from the southern parts of France and Germany; they have a strong disagreeable smell, and an unctuous farinaceous taste, accompanied with a a slight bitterness. They are esteemed as assisting the formation of pus, in inflammatory tumours; and the

TRO meal, with that intention, is made into a poultice with I bone, which are distinguished into the greater and

milk.

TRIGONUS. See Triangularis.

TRIHILATÆ. (From tres, three, and hilum, the scar or external mark on the seed.) The name of a class of plants in Limanus's Fragments of a Natural Method, consisting of plants, the seeds of which have the scar well marked; the style has three stigmas.

TRILOBUS. Three-lobed. Applied to parts of classifications of the star which have so shamped.

animals and plants which are so shaped.

TRINERVIS. Three-nerved. In botany, threeribbed; as applied to leaves, &c.

TRINITY-HERBA. See Anemone hepatica.
TRINITY-HERB. See Anemone hepatica.
["TRIOSTEUM. The triosteum perfoliatum is a native plant, the root of which is cathartic in the dose of thirty or thirty-five grains. It sometimes operates as an emetic in the same doses. The strength is some-

as an emetic in the same doses. The strength is somewhat impaired by keeping, so that the stock should be renewed every year."—Big. Mat. Med. A.]
TRIPARTITUS. Tripartite: divided into three.
TRIPASTRUM APELLIDIS. Tripastrum archimedis. A surgical instrument for extending fractured limbs; Bonamed because it resembled a machine invented by Apellides or Archimedes, for the launching of ships, and because it was worked with three cords.

TRIPHANE. See Spodimene.
TRIPHYLLUS. (From τρεις, three, and φυλλον, a

TRIPHYLLUS. (From rous, three, and leaf.) Three-leaved. Triphy-ribbed: applied to a leaf. Which has a pair of large ribs branching off from a main one above the base, which is the case in every species of sunfawer, and the Blakea triphners.

TRIPOLI. Rottenstone. A grayish yellow-coloured mineral used for polishing.

TRIQUETRA. (Triquetrus; from tres, three.)

Ossicula wormina. The triangular-shaped bones.

suture of the skull.

TRIQUETRUS. Three sided. Applied to some parts of plants; as the stems, flowerstalk, leaves,

parts of plants; us the seeds, &c.

TRISMUS. (From τρίζω, to guash.) Locked jaw. Spastic ngidity of the under jaw. Capistrum, of Vogel. Dr. Cullen makes two species. 1. Trismus nascentium, attacking infants during the first two weeks from their birth. 2. Trismus traumaticus, attacking persons of all ages, and arising from cold or a wound. See Tetanus.

wound. See Tetanus.

TRISSA'GO. (Quasi tristago; from tristis, sad:
because it dispels sadness.) The common germander
is sometimes so called. See Tenerium chamadrys.

TRISSAGO PALLUSTRIS. The water-germander was

TRITEO PHYA. (From 10) alog, tertian, and \$\phi\_{vv}\$, importing a like nature or original.) Triteus. A fever much of a nature with a tertian, and taking its rise from it. Some call it a continued tertian. It is remitten to the control of the con tent or intermittent.

TRITEOPHYA CAUSUS. The fever called causus by

Hippocrates.
TRITÆUS. See Tritæophya.
TRITÆUS. See Trottæophya.
TRITICUM. (From tero, to thresh from the husk.)
The name of a genus of plants. Class, Triandria;
Order, Digynia. See Wheat.

TRITICUM REPENS. Gramen caninum; Gramen Dioscoridis; Gramen repens; Loliaceum radice revente. Dog's grass; Couch grass. A very common nente. Dog's grass; Couch grass. A very common grass, the roots of which are agreeably sweet, and possess aperient properties. The expressed juice is recommended to be given largely.

TRITO'RIUM. (From tritus, beat small.) 1. A mortar.

mortar. 2. A glass for separating the oil from the water in distilling.

TRITURATION. (Trituratio; from tero, to rub or grind.) Tritura: Tritus. The act of reducing a or ginu.) Pratura; Pritus. Lae act of reddeling a solid body into a subtile powder; as woods, barks, &c. It is performed mostly by the rotary motion of a pestle in metallic, glass, or Wedgewood mortars.

pestie in metallic, glass, of weagewood inortars. TROCAR. (Corrupted from an trois quart, French, a three-quarters; from the three sides with which the point is made.) The name of an instrument used in tapping for the dropsy.

TROCHA'NTER. (From τρεχω, to run: because the muscles inserted into them perform the office of running.) The name of two processes of the thigh-

ss. See Femur. TROCHI SCUS. less. See Femur.
TROCHISCUS. (Diminutive of τροχος, a wheel.)
A troch or round tablet: Troches and lozenges are composed of powders made up with glutinous substances into little cakes, and afterward dried. This form is principally used for the more commodious exhibition of certain medicines, by fitting them to dissolve slowly in the mouth, so as to pass by degrees into the stomach; and hence these preparations have generally a considerable portion of sugar or other materials grateful to the palate. Some powders have likewise been reduced into troches, with a view to their prepara tion, though possibly for no very good reasons: for the moistening them, and afterward drying them in the air, must on this account be of greater injury, than any advantage accruing from this form can counterbalance.
General rules for making troches:

1. If the mass proves so glutinous as to stick to the fingers in making up, the hands may be anointed with any sweet or aromatic oil; or else sprinkled with

starch, or liquorice powder, or with flour.

2. In order to thoroughly dry the troches, put them on an inverted sieve, in a shady, airy place, and fre-

quently turn them.

3. Troches are to be kept in glass vessels, or in earthen ones well glazed.

TROCHLEA. ( $T\rho \alpha \lambda \alpha_0$  a pulley; from  $\tau \rho \epsilon \chi \omega_0$  to run.) A kind of cartriaginous pulley, through which the tendon of one of the muscles of the eye passes.

TROCHLEATORES. See Obliques superior ocali.
TROCHLEATORES. The fourth pair of nerves are so called, because they are inserted into the musculus troclearis of the eye. See Pathetici.
TROCHOLDES. (From τροχος, a wheel, and ειδος,

resembliace.) Area commissura. A species of diarthrosis, or moveable connexion of bones, in which one bone rotates upon another; as the first cervical vertebra upon the odontoid process of the second.

TRONA. The African name for the native car-

TRONA. The African name for the native ear-bonate of soda found near Fezzan.

["The carbonate of soda, strictly so called, is found in the province of Sukena, two days' journey from Fezzan, in Africa. It appears in crusts, composed of minute crystals, at the foot of a mountain. It is there called Trona, and transported to Egypt, Tripofi, &c. This variety is also found near Buenos Ayres in con-siderable countries. siderable quantities, whence it has been transported to England. It there exists in stratified masses from two to six inches thick, resting on clay, which is strongly impregnated with common salt. It has a light yel-

impregnated with common salt. It has a light yellowish-gray colour, a granular texture, is easily broken, and does not efforced in the air. —Cleav. Mon. A.]

TRONCHIN, Theodore, was born at Geneva, in 1799, and went to study under Boerhaave, at Leyden, where he graduated in 1730. He then settled at Amsterdam, hecame a member of the College of Physicians, and an inspector of hospitals; and distinguished himself as a zealous promoter of inoculation. In 1734, he returned to Geneva, and ranked among the most eminent practitioners in Europe; a chair of medicine was instituted in his favour, and the Society of dicine was instituted in his favour, and the Society of most eithern practitioners in Europe; a crian of medicine was instituted in his favour, and the Society of Pastors admitted him into their body. He was employed by the Duke of Orleans, and other persons of rank at Paris, to inoculate their children; and performed the same office for the Duke of Parms. In ployed by the Duke of Cheans and per-rank at Paris, to inoculate their children; and per-formed the same office for the Duke of Parma. In 1766, he accepted the appointment of principal phy-sician to the Duke of Orleans; though he had pre-viously declined an invitation from the Empress of Russia. His practice appears to have been simple and judicious, and his conduct marked by humanity and charity. He had little time for writing; but besides his imaugural dissertation, he published a treatise on the Colica Pictonum, in 1757, and contributed several arti-cles to the Encyclopadia, and to the Memoirs of the Academy of Surgery: and to an edition of the works of Baillou he gave a Perface on the State of Medicine. He had the honour of being a member of the chief medical and scientific societies in Europe. His death happened in 1781.

TROPÆ OLUM. (A diminutive of tropœum, or τρωπαιον, a warlike trophy. This fanciful but elegant name was chosen by Linnæus for this singular and striking genus, because he conceived the shield-like leaves and the brilliant flowers, shaped like golden helmets, pierced through and through, and stained with blood, might well justify such an allusion.) The name

gynia.

TROPEOLUM MAJUS. The systematic name of the Indian cress. Nasturtium indicum; Acriviola; Flos Sanguineus monardi; Nasturium perusianum; Car-damundum muus. Greater Indian cress, or Nastur-tum. This plant is a native of Peru; it was first brought to France in 1684, and there called La grande capucine. In its recent state this plant, and more especially its flowers, have a smell and taste resembling those of water-cress; and the leaves, on being bruised in a mortar, emit a pungent odour, somewhat like that of horse-radish. By distillation with water, they impregnate the fluid in a considerable degree with smell and flavour of the plant. Hence the antiscorbutic character of the nasturtium seems to be well founded, at least as far as we are able to judge from its sensible qualities: therefore, in all those cases where the warm and antiscorbutic vegetables are recommended, this plant may be occasionally adopted as a needed, this plant may be occasionally adopted as a pleasant and effectual variety. Patients to whom the nauseous taste of scurvy-grass is is-tolerable, may find a grateful substitute in the nasturmum. The flowers a grateful substitute in the nasturuum. The flowers are frequently used in salads, and the capsules are by many highly esteemed as a pickle. The flowers, in the warm summer months, about the time of sunset, have been observed to emit sparks like those of the electrical

Kind.
TROPHIS AMERICANA. Red fruited bucephalon.
The fruit of the plant is a rough red berry, which is
cuten in Jumaica, though not very pleasant.

TRUFFLE. See Lycaperdon tuber.
TRUNCATUS. Truncate. Used in botany. truncate leaf is an abrupt one, which has the extremity cut off, as it were, by a wansverse line; as in Lirio-

dendrum tulipifera, and the petals of Hura crepitans.
TRUNCUS. (Trancus, i, m.) The trunk.
1. In anatomy, applied to the body strictly so called. It is divided into the thorax or chest, the abdomen or

belly, and the pelvis.

II. In botany, that part of a plant which emerges from the root, and sustains all other parts. The genera of trunks are,

1. Truncus: applied to trees and shrubs, which are thick and woody

Caulis: the stem of heros.

3. Calmus: the stem of grasses.

4. Stipes: the trunk of funguses, ferns, and palms 5. Scapus: which is not a 'runk, but a flower-stalk,

emerging from the root.

[Truss. This is an instrument employed by surgeons to retain the intestines in their proper place, when they have been forced out of their natural position, forming the disease which is called a rupture or hernia. A hernia is reducible or not. When not re-ducible, it becomes a strangulated hernia, requiring a surgical operation, before the intestines can be restored to their proper position. When not strangulated, ruptures are liable to become so by accident, and hence trusses were invented to keep the intestines in their place, and if possible to cure the disease, by closing the opening through which the bowels protruded. Trusses have heretofore been considered as a palliative remedy, rather than the means of effecting a radical cure. This has arisen from the manner of constructing them; and although they sometimes effected the desired object. yet they more generally failed, because the pads of all the trusses heretofore applied, were made convex. The intention of this shape of the instrument was to press into the opening through which the gut descended, and to keep it well into its place; but while it had this effeet, it tended to keep the opening from healing, and even to enlarge it. This evil was not fully remedied until Dr. Amos G. Hull, of New-York, turned his atuntil Dr. Amos or Tun, or the subject, and by his improvements in the construction of trusses, has rendered it certain that all recent ruptures, and those of children, may be permanently cured, and those of old people and of long standing may, in many cases, also be remedied. The pad of Dr. Hull's truss is concare, and not convex; and hence the raised circular margin, by proper adaptation, presses upon the sides of the hernial opening, and tends to close the aperture and cure the hernia.

The following particulars of this invention, and its application to the cure of hernia, we take from the New-York Medical and Physical Journal, vol. 4.

"The qualities we have united in the truss, are

of a genus of plants." Class, Octandria; Order, Mono- | equally applicable to every species of hernia, and we gynia. proportion of cures it has effected is altogether unparalleled. It may, perhaps, be an interesting inquiry to some, how this instrument produces its effects: and we think, after considering its construction, this question can be answered to the satisfaction of every rational mind. It will be observed, that this truss presents a concave surface to the rupture opening. The concavity of the plate is occupied by an elastic cushion, the resistance of which is sufficient to reduce the intruding intestine while it is prevented escaping to any considerable distance by the pressure of the metallic plate; which pressure being greatest at the circumference and dimmishing towards the centre, tends constantly to approximate the hernial parietes, and afford them rest and mechanical support. It is therefore obvious that nothing is suffered to intervene between the lips of the opening, as is the case when the intestine protrudes, or opening, as is the case when the interaine protrudes, or a convex pad is applied, but a fair opportunity is presented for the fibres to recover their tone, or to heal, when any laccration has been produced by violence done to the parts. It is a law of the animal economy, particularly noticed by Dorsey, that all hollow parts of the body have a tendency to adapt themselves to their contents.

"For the cure of hernia, then, it is only necessary to remove every obstacle which counteracts this tendency This indication is certainly very far from being answered by the convex pad, and we think it can only be fulfilled by one which shall reduce the bowel without dilating the ring: with this view, we have applied the concave pad, which has more than answered our expectations, in preventing a descent of the gut, and in restoring the fibres, which it undoubtedly greatly facilitates by its constant and uniform pressure. But without investigating the modus operandi, it is sufficient for the patient, and for all practical purposes, for the physician to know, that with this instrument hernia may always be secured. If applied in cases of umbilical or congenital hernia in children, it will, in every instance, remust normal in children, it will, in every listance, re-move the necessity of an operation. In cases of con-genital hernia, it should be applied before adhesion takes place, but not until the testicle has made its de-scent. If this particular period should be more care-fully observed by surgeons, and the application of the truss (instead of being abandoned to mechanics) receive a greater share of their attention, they might be instrumental in obviating much of the distress which has been entailed upon the world.

"The distinctive merits of this truss Dr. Hull sums up

under the following heads:-

" First .- The concave internal surface of the rupture pad, from its pressure being greatest at the circumference, tends constantly to approximate the hernial parietes, affording them rest and mechanical support.

"Secondly.—The combined hinge and pivot mode of connexion between the spring and pad, by means of a tenon and mortice, so constructed as to preserve a double hinge and limited joint, acting in every direc-tion, thereby securing the uniform pressure of the spring on the pad, and sustaining the same nice coapta-tion of the pad and rupture opening, as well under the varied ordinary desultory muscular actions, as when the body is in a recumbent posture.

Thirdly .- The graduating power and fixture of the pad to the spring, rendering, as will be readily per ceived, the condition of the pad perfectly controllable, even to nameless minuteness. Also resulting from this mechanism, is the advantage of accommodating a large truss to a small person; hence the facility of supplying, without disappointment, persons at a great

" Fourthly .- The double inguinal truss, being simply the addition of another pad, attached to a short elastic metallic plate: this plate with its pad move on the main

metallic plate: this plate with its pad move on the main spring by the same power of adjustment and fixture as the first pad, the pressure of the pads being graduated at pleasure by an intervening cork wedge." A.]
TUBA. (From tubus; any hollow vessel.) I. A tube.
2. In botany, the inferior part of a monopetalous corol. It is the cylindrical part which is enclosed in the calvx of the primrose. See Corolla.
TUBA EUSTACHIANA. Tuba aristotelica; Aquaducus; Aquaductus fallopii; Meatus siccus; Palatinus ductus; Ductus auris palatinus. The auditory tube The Eustachian tube, so called because it was first 361 361

described by Eustachius, arises in each ear from the anterior extremity of the tympanum by means of a bony semi-canal; runs forwards and inwards, at the same time becoming gradually smaller; and after persented which yield about a gallon in a minute, bony semi-canal; runs forwards and inwards, at the same time becoming gradually smaller; and after per-forating the petrous portion of the temporal bone, terminates in a passage, partly cartilaguous and partly membranous, narrow at the beginning, but becoming gradually larger, and ending in a pouch behind the soft polate. It is through this orifice that the pituitary membrane of the nose enters the tympanum. It is always open, and affords a free passage for the air into the tympanum; hence persons hear better with their mouth open.

TUBA FALLOFIANA. The Fallopian tube first described by Fallopius. The uterine tube. A canal included in two lamins of the peritonsum, which arises at each side of the fundus of the uterus, passes transversely, and ends with its extremity turned down-TUBA FALLOPIANA. scribed by Fallopius. wards at the ovarium. Its use is to grasp the ovum. and convey the prolific vapour to it, and to conduct the

fertifized ovum into the cavity of the uterus.

TUBER. (Tuber, eris, n.; from tumeo, to swell.)

An old name for an excrescence.

I. In anatomy, applied to some parts which are rounded; as tuber annulare, &c.
 In surgery, a knot or swelling in any part.
 In botany, applied to a kind of round turgid root,

as a turnip; hence these are called tuberose roots

4. The name of a genus of plants in the Linnwan system. Class, Cryptogamia, Order, Fungi.

Tuber Cibarum. The common truffle. See Lyco-

perdon tuber.

TUBERCULA QUADRIGEMINA. Corpora quadrigemina; Eminentiæ quadrigeminæ; Natulæ. Four white oval tubercles of the brain, two of which are situated on each side over the posterior orifice of the third ventricle and the aqueduct of Sylvius. The ancients called them nates and testes, from their supposed resemblance.

TUBE RCULUM. (Tuberculum, i, n. diminutive of tuber.) A tubercle. In anatomy, applied to several elevations, and in morbid anatomy to a diseased structure, which consists of a solid roundish substance; as

ture, which consists of a sould rounders substance; as tubercles of the lungs, liver, &c.

In botany, it is applied to the hemispherical projections, as the fruit of the Lichen cannus.

Tuberculum annulars. The commencement of

the medulla obiongata.

TUBERCULUM LOWERI. An eminence in the right auricle of the heart where the two venæ cavæ meet: so aurice of the heart where the two venic cave meet; so called from Lower, who first described it.

TUBEROSUS. Tuberose, knobbed: applied to parts of plants. The root so called is of many kinds. The most genuine consists of fleshy knobs, various in

form, connected by common stalks or fibres; as the po-

form, connected by common status or mores, as the po-ctato, and Jerusalem artichoke.

TUBULARIS. Tubular. In Good's Nosology used to designate a species of purging, disorthea tubularis, in which membrane-like tubes pass with the motions.

TUBULOSUS. Tubulose. A leaf is so called which is hollow within, as that of the common onion.

The florets of a compound flower are called tubulosi, tubular or cylindrical, to distinguish them from such as

TUBULUS. A small tube or duct.
TUBULUS. A small tube or duct.
TUBULU LACTIFERI. The ducts or tubes in the nipple, through which the milk passes.
TUFT. See Canitulus.

TULP, Nicholas, was the son of an opulent merchant, and born at Amsterdam, in 1593. Having studied and graduated at Leyden, he settled in his native city, and rose to a high rank, not only in his profession, but also as a citizen. He was made burgonaster in 1652, and in that station resisted the invasion of Holland by Lewis XIV. twenty years after, and thus saved his country; on which occasion a medal was struck to his honour. He died in 1674. His three books of Medical Observations have been several times reprinted, and contain many valuable physiological remarks. He is said to have been among the first who observed the lacteal vessels.

TUMITE. See Thummerstone.

TU'MOUR. (Tumor; from tumeo, to swell.) A

swelling.

TUMO'RES. Tumours. An order in the Class, Locales, of Cullen's Nosology, comprehending partial swellings without inflammation.

TUNBRIDGE. Tunbridge wells is a populous vil-

and therefore afford an abundant supply for the numerous invalids who yearly resort thither. rous invalids wno yearly resort inther. The analysis of Tunbridge spring proves it to be a very pure water, as to the quantity of solid matter; and the saline contents (the iron excepted) are such as may be found in almost any water that is used as common drink. only as a chalybeate, and in the quantity of carbonic acid, that it differs from common water. Of this acid it contains one twenty-second of its bulk. The general operation of this chalybeate water is to increase the power of the secretory system in a gradual, uniform manner, and to impart tone and strength to all the functions; hence it is asserted to be of eminent service in rregular digestion, flatulency, in the incipient stages of those chronic disorders which are attended with great debility, in chlorosis, and numerous other complaints incident to the female sex. The prescribed method of using the Tunbridge water, observes Dr. Saunders, is judicious. The whole of the quantity daily used, is taken at about two or three intervals, beginning at eight o'clock in the morning, and finishing about noon. The dose at each time varies from about one to three quarters of a pint; according to the age, sex, and general constitution of the patient, and especially the duration of the course; for it is found that these waters lose much of their effect by long habit.

TUNGSTATE. Tunstas. A salt formed by the combination of the tungstic acid, with salifiable bases:

as tungstate of lime, &c. TUNGSTENUM. ( TUNGSTENUM. (Tungsten, Swed. ponderous stone.) A metal, never found but in combination, and by no means common. The substance known to mineby no means common. The substance known to mineralogists, under the name of tungsten, was, after some time, discovered to consist of lime, combined with the acid of this metal. This ore is now called tungstate of lime, and is exceedingly scarce. It has been found in Sweden and Germany, both in masses and crystallized, of a yellowish-white or gray colour. It has a sparry appearance, is shining, of a lamellated texture, and semitransparent. The same metallic acid is likewise found united to incomment of the same metallic acid is likewise. found united to iron and manganese; it then forms the ore called Wolfram, or tungstate of iron and manganese. This ore occurs both massive and crystallized, and is found in Cornwall, Germany, France, and Spain. Its colour is brownish-black, and its texture foliated. It has a metallic lustre, and a lamellated texture; it is brittle and very heavy; it is found in solid masses, in the state of layers interspersed with quartz. These

the state of ayers interspersed that quarts. These two substances are therefore ores of the same metal.

Properties.—Tungstenum appears of a steel-gray colour. Its specific gravity is about 176. It is one of the hardest metals, but it is exceedingly brittle; and it is said to be almost as infusible as platina. Heated in the air it becomes converted into a yellow pulverulent oxide, which becomes blue by a strong heat, or when exposed to light. Tungstenum combines with phosphorus and sulphur, and with silver, copper, iron, lead, tin, antimony, and bismuth; but it does not unite with gold and platina. It is not attacked by sulphuric, nitric, or muriatic acids; nitro-muriatic acid acts upon it very slightly. It is oxidizable and acidifiable by the nitrates and hyperoxymuriates. It colours the vitrified earths or the vitreous fluxes, of a blue or brown colour. It is not known what its action may be on water and different oxides. Its action in the alkalies is likewise un-known. It is not employed yet, but promises real utility, on account of its colouring property, as a basis for pigment, since the compounds it is said to form with vegetable colouring matter, afford colours so permanent, as not to be acted on by the most concentrated oxymuriatic acid, the great enemy of vegetable colours.

Methods of obtaining tungstenum.—The method of obtaining metallic tungstenum is a problem in chemistry. Scheele, Bergman, and Gmellu did not succeed in their attempts to procure it. Klaproth tried to reduce the yellow oxide of this metal with a variety of combustible substances, but without success. Ruprecht and Tondy say they have obtained this metal by using com-Ruprecht and bustible substances alone; and by a mixture of combustible and alkaline matter.

The following process is recommended by Richter, an ingenious German chemist,

Let equal parts of tungstic acid and dried blood be

exposed for some time to a red heat in a crucible; press | able in chronic rheumatism and paralysis. Turpen. exposed for some time to a red neating a cruciple; press the black powder which is formed into another smaller crucible, and expose it again to a violent heat in a forge, for at least half an hour. Tungstenum will then be found, according to this chemist, in its metallic state in the crucible. There are two oxides of tung-

then be found, according to this chemist, in its metallic state in the crucible. There are two oxides of tungstenum, the brown and the yellow, or tungstic acid.

TUNGSTIC ACID has been found only in two minerals; one of which, formerly called tungsten, is a tungstate of lime, and is very rare; the other, more common, is composed of tungstic acid, oxide of iron, and a little oxide of manganese. The acid is separated from the latter in the following way:—The wolfram cleared from its silicious gangue, and pulverized, is neated in a matrass with rive or six times its weight of muriatic acid for half an hour. The oxides of iron and manganese being thus dissolved, we obtain the tungstic acid under the form of a yellow powder. After washing it repeatedly with water, it is ten digested in tungste acid under the ford of a yearon powder. After washing it repeatedly with water, it is then digested in an excess of liquid ammonia, heated, which dissolves it completely. The liquor is filtered and evaporated to dryness in a capsule. The dry residue being ignited, the ammonia flies off, and pure tungstic acid remains. If the whole of the wolfram has not been decomposed in this operation, it must be subjected to the muriatic acid again.

It is tasteless, and does not affect vegetable colours. The tungstates of the alkalies and magnesia are soluble and crystallizable, the other earthy ones are insoluble, as well as those of the metallic oxides. The acid is composed of 100 parts metallic tungsten, and 25 or 26.4

oxygen. TUNGSTOUS ACID. What has been thus called

appears to be an ox.de of tungsten.

Tunic of a seed. See Arithus.
TUNICA. (A tuendo corpore, because it defends the body.) A membrane or covering; as the coats of the eye, &c.

TUNICA ACINIFORMIS. The uvea, or posterior lamella of the iris.

TUNICA ALBUGINEA OCULI. See Adnata tunica.
TUNICA ALBUGINEA TESTIS. See Albuginea testis.
TUNICA ARACHNOIDEA. See Arachnoid membrane.
TUNICA CELLULOSA RUYSCHII. The second coat of the intestines

TUNICA CHOROIDEA. See Choroid membrane.

See Conjunctive membrane. TUNICA CONJUNCTIVA.

TUNICA CONJUNCTIVA. See Conjunctive membrane.
TUNICA CORNEA. See Cornea.
TUNICA FILAMENTOSA. The false or spongy chorion.
TUNICA RETIRA. See Retina.
Tenica vaginalis testis. A continuation of the
peritonæum through the inguinal ring, which loosely
invests the testicle and spermatic cord. See Testis.
TUNICA VILLOSA. The villous, or inner folding coat

of the intestines.

of the intestines.

Turbeth mineral. See Hydrargyrus vitriolatus.

Turbeth-root. See Convolvulus turpethum.

TURBINATE. (Turbinatus; from turbino, to sharpen at the top, shaped like a sugar-loaf.) Shaped like a sugar-loaf.

hke a sugar-loal.

Turbinated bones. The superior spongy portion of the ethmoid bone, and the inferior spongy bones, are so called by some writers. See Spongiosa ossa.

TURBINATUM. The pineal gland.

TURBINATUS. Turbinate, or sugar-loaf form.

Applied to the fig, &c. Turbith. A catha A cathartic eastern bark; a species of

Turkeystone.
TURMERIC. See Whetslate.

TURMERIC. See Curcuma.
TURNHOOF. A vulgar name of the ground ivy.

TURNHOOF. A vulgar name of the ground tyy.

See Glecoma hederacea.

TURNIP. See Brassica rapa.

Turnp, French. See Brassica rapa.

TURNSOLE. See Heliotropium.

TURPENTINE. Terebinthina. There are many kinds of turpentine. Those employed medicinally are,

1. The Chian or Cyprus turpentine. See Pistacia terebinthus.

2. The common turpentine. See Terebinthina com-

3. The Venice turpentine. See Pinus larix.
All these have been considered as hot, stimulating corroborants and detergents; qualities which they pos sess in common. They stimulate the prima viae, and prove laxative; when carried into the blood-vessels they excite the whole system, and thus prove service- hind the membrane of the tympanum, which terms

tine readily passes off by urine, which it imbues with a peculiar odour; also by perspiration and by exhalation from the lungs; and to these respective effects are ascribed the virtues it possesses in gravelly complaints, scurvy, and pulmonic disorders. Turpentine is much used in gleets, and fluor albus, and in general with much success. The essential oil, in which the virtues used in gleets, and fluor albus, and in general whomeun success. The essential oil, in which the virtues of turpentine reside, is not only preferred for external use, as a rubefacient, but also internally as a diuretic and styptic; the latter of which qualities it possesses in a very high degree. Formerly, turpentine was much used as a directive application to ulcerts. &c., but in the modern practice of surgery, it is almost wholly exploded. Two peth mineral. See Hydrargyrus vitriolatus. TURPE THI M. (From Turpeth, Indian turbeth.)

See Convolvulus turpethum.

TURPETHUM MINERALE. See Hydrargyrus vitrio-

TURQUOIS. Calaite. A much-esteemed ornamental stone brought from Persia, of a smalt-blue and apple-green colour.

'TURU'NDA. (A terendo, from its being rolled up.)

A tent, or suppository.

TUSSILA'GO. (Tussilago, inis, f.; from tussis, a cough; because it relieves coughs.)

1. The name of a genus of plants in the Linnaean system. Class, Syngonesia; Order, Polygomia superflua.

2. The pharmacopæial name of the coltsfoot. See

Tussilago farfara.

TUSSILAGO FARFARA. The systematic name of the TUSSILAGO FARFARA. The systematic name of the Prohium; Bockon, Calecum equinum; Chamaleuce; Filius antepatrem; Farfarelle; Farfara; Tussilago vulgaris; Farfara berkium; Ungulacaballina. Coltsfoot. Tussilago farfara—seapo unigoro imbricato, foliis subcordatis angulatis denticulatis. The sensible qualities of this plant are very inconsiderable; it has a rough mucilaginous taste, but no remarkable smell. The leaves have always been esteemed as possessing demulcent and pectoral virtues; and hence they have been exhibited in pulmorary consumptions, coughs, asthmas, and catarrhal affections. It is used as tea, or given in the way of infusion with flquorice as tea, or given in the way of infusion with flquorice as tea, or given in the way of infusion with liquoriceroot or honey.

Tussilago fetasites. The systematic name of the butter-bur. Petasites. Pestilent-wort. The roots of this plant are recommended as aperient and alexipharmic, and promise, though now forgotten, to be of considerable activity. They have a strong smell, and a bitterish acrid taste, of the aromatic kind, but not agreeable. TU'SSIS.

TU'SSIS. A cough, a sonorous concussion of the breast, produced by the violent, and for the most part involuntary motion of the muscles of respiration. It is symptomatic of many diseases.

Tussis convulsiva. See Pertussis.

Tussis exanthematica. A cough attendant on an eruption.

T'essis ferina. See Pertussis.
TUTENAG. 1 The Indian name for zinc.
2. A metallic compound brought from China.
TU'TIA. (Persian.) Pompholyz; Cadmia. Tutty.
A gray oxide of zinc; it is generally formed by fusing brass or copper, mixed with blende, when it is incrusted in the chimneys of the furnace. Mixed with any common cerate, it is applied to the eye, in debilitated states the conjunctive membrane.

TUTIA PREPARATA. Prepared tutty is often put into

TUTIA PREPARATA. Prepared tutty is often put into collyria, to which it imparts an adstringent virtue.
TUTI'Y. See Tutia.
TYLO'SIS. (From τυλος, a callus.) Tyloma. An inducation of the margin of the eyelids.
TY'MPANI MEMBRANA. See Membrana tympani.
TYMPANI'TES. (From τυμπανον, a drum: so called because the belly is distended with wind, and sounds like a drum when struck.) Tympany. Drumbelly. An elastic distention of the abdomen, which control like a drum when struck, with costiveness and belly. An elastic distention of the abdoinen, which sounds like a drum when struck, with costiveness and atrophy, but no fluctuation. Species: 1. Tympanites intestantists, a lodgment of wind in the intestines, known by the discharge of wind giving relief 2. Tympanites abdominatis, when the wind is in the cavity of the abdoinen. TY'MPANUM. (Τυμπανον. A drum.) The drum or borrel of the ear. The hollow part of the ear in which are lodged the bones of the tear. It begins behind the weaphyrape of the tympanum which termination.

TYP

nates the external auditory passage, and is surrounded by the petrous portion of the temporal bone. It terminates at the cochlea of the labyrinth, and has opening into it four foramina, viz. the orifices of the Eustachian tube and mastoid sinus, the fenestra ovalis, and ro-It contains the four ossicula auditus.

TY'PHA. (From  $\tau_{\ell}\phi_{0}$ , a lake; because it grows in marshy places.) The name of a genus of plants in

the Linnæan system. 'The cat's tail.

TYPHA AROMATICA. See Acorus calamus.
TYPHA LATIFOLIA. The broad leaved cat's tail, or bull-rush. The young shoots, cut before they reach the surface of the water, eat like asparagus when boiled.

TYPHOMA'NIA. MA'NIA. (From τυφος, to burn, and μανια, A complication of phrensy and lethargy delirium.)

TYPHUS. (From rupos, stupor.) A species of continued fever, characterized by great debility, a tendency in the fluids to putterfaction and the ordinary characteristics. symptoms of fever. It is to be readily distinguished from the inflammatory by the smallness of the pulse, and the sudden and great debility which ensues on its first attack; and, in its more advanced stage, by the pe techia, or purple spots, which come out on various parts of the body, and the feetid stools which are discharged; and it may be distinguished from a nervous fever by the

great violence of all its symptoms on its first coming on.

The most general cause that gives rise to this disease, is contagion, applied either immediately from the body of a person labouring under it, or conveyed in clothes, or merchandise, &c.; but it may be occasioned by the colluvia arising from either animal or vegetable substances in a decayed or putrid state: and hence it is, that in low and marshy countries it is apt to be prevatent when intense and sultry heat quickly succeeds any great inundation. A want of proper cleanliness and confined air are likewise causes of this fever; hence it prevails in hospitals, jails, camps, and on board of ships, especially when such places are much crowded, and the strictest attention is not paid to a free ventilaand the stratest attention is not paid to a free ventila-tion and due cleanlines. A close state of the atmos-phere, with damp weather, is likewise apt to give rise to putrid fever. Those of lax fibres, and who have been weakened by any previous debilitating cause, such as poor diet, long fasting, land labour, continued want of sleep, &c. are most liable to it.

On the first coming on of the disease, the person is seized with languor, dejection of spirits, amazing depression and loss of muscular strength, universal weariness and soreness, pains in the head, back, and extremities, and rigors: the eyes appear full, heavy, yellowish, and often a little inflamed; the temporal arteries throb violently, the tongue is dry and parched, respiration is commonly laborious, and interrupted with deep sighing; the breath is hot and offensive, the urine is crude and pale, the body is costive, and the pulse is usually any level, and any loved and then the On the first coming on of the disease, the person is usually quick, small, and hard, and now and then flut-tering and unequal. Sometimes a great heat, load, and pain are felt at the pit of the stomach, and a vomiting

of bilious matter ensues.

As the disease advances, the pulse increases in frequency (beating often from 100 to 130 in a minute); there is vast debility, a great heat and dryness in the skin, oppression at the breast, with anxiety, sighing, and meaning; the thirst is greatly increased; the tongue, mouth, lips, and teeth are covered over with a brown or black tenacious fur; the speech is inarticulate, and scarcely intelligible; the patient mutters much, and delirium ensues. The fever continuing to increase still more in violence, symptoms of putrefaction show themselves; the breath becomes highly offensive; the urine deposites a black and feetid sedithe stools are dark, offensive, and pass off ment; the stools are dark, offensive, and pass off insensibly; hæmorrhages issue from the gums, nostrils, mouth, and other parts of the body; livid spots or petechia appear on its surface; the pulse intermits and sinks; the extremities grow cold; hiccoughs ensue; and death at last closes the tragic scene

When this fever does not terminate fatally, it gene rally hegins, in cold climates, to diminish about the commencement of the third week, and goes off gradually towards the end of the fourth, without any very evident crisis; but in warm climates it seldom continues above a week or ten days, if so long.

Our opinion, as to the event, is to be formed by the degree of violence in the symptoms, particularly after petechie appear, although in some instances recoveries 364

have been effected under the most unpromising appear-An abatement of febrile heat and thirst, a moisture diffused equally over the whole sur face of the body, loose stools, turbid urine, rising of the pulse, and the absence of delirium and supor, may be regarded in a favourable light. On the con trary, petechia, with dark, offensive, and involuntary discharges by urine and stool, fetid sweats, hemorrhages, and hiccoughs, denote the almost certain dissolution of the patient.

The appearances usually perceived on dissection, are inflammations of the brain and viscera, but more particularly of the stomach and intestines, which are now and then found in a gangrenous state. In the muscular and then found in a gangrenous state. fibres there seems likewise a strong tendency to gan

In the very early period of typhus fever, it is often possible, by active treatment, to cut short the disease at once; but where it has established itself more firmly, we can only employ palliative measures to diminish its violence, that it may run safely through its course. Among the most likely means of accomplishing the first object is an emetic; where the fever runs high, we may give antimonials in divided doses at short intervals till full vomitting is excited; or if there be less strength in the system, ipecacuanha in a full dose at once. Attention should next be paid to clear out the bowels by some sufficiently active form of medicine; and as the disease proceeds, we must keep up this function, and attempt to restore that of the skin, and the other secretions, as the best means of moderating the violence of vascular action. Some of the preparations of mercury, or if there be tolerable strength, those of antimony, assisted by the saline compounds, may be employed for this purpose. The general antiphicgistic regimen is to be observed in the early part of the disease, as explained under synocha. In cases where the skin is uniformly very hot and dry, the abstraction of caloric may be more actively made by means of the cold affusion, that is, throwing a quantity of cold water on the naked hody of the patient; which measure has sometimes arrested the disease in its first stage; and when the power of the system is less, sponging the body occasionally with cold water, medicated, perhaps, with a little salt or vinegar, may be substituted as a milder proceeding. But where the evolution of heat is even deficient, such means would be highly improper; and it may be some-times advisable to employ the tepid bath, to promote the operation of the diaphoretic medicines. If under the use of the measures already detailed, calculated to lessen the violence of vascular action, the vital powers should appear materially falling off, recourse must then be had to a more nutritious diet, with a moderate quantity of wine, and cordial, or tonic medicines. There is generally an aversion from animal food, whence the mucilaginous vegetable substances, as arrow-root, &c., rendered palatable by spice, or a little wine, or sometimes mixed with milk, may be directed, as nourishing and easy of digestion. If, however, there be no marked septic tendency, and the patient cloyed with these articles, the lighter animal preparations, as calves-foot jelly, veal broth, &c., may be allowed. The extent to which wine may be carried, must depend on the urgency of the case, and the previous habits of the individual; but it will commonly not be necessary to exceed half a pint, or a pint at most, in the twenty-four hours; and itshould be given in divided portions, properly diluted, made, perhaps, into negus, whey, &c., according to the liking of the patient. The preference should always be given to that which is of the soundest quality, if agreeable: but where wine cannot be afferded, good malt liquor, or mustard whey, may be substituted. Some patient cloyed with these articles, the lighter animal that which is of the southers quanty, it should be: but where wine cannot be afforded, good malt figuor, or mustard whey, may be substituted. Some moderately stimulant medicines, as ammonia, aromatics, serpentaria, &c., may often be used with advantage, to assist in keeping up the circulation: also those of a tonic quality, as calumba, cusparia, cinchona, &c., occasionally in their lighter forms but more especially the acids. These are, in several respects, useful; by promoting the secretions of the prime-vire, &c., they quench thirst, remove irritation, and manufestly cool the body; and in the worst forms of typhus, where the putrescent tendency appears, they are particularly indicated from their antiseptic power; they are also decidedly tonic, and indeed those from the mineral kingdom powerfully so. These may

be given freely as medicines, the carbonic acid also in ] the form of brisk fermenting liquors; and the native vegetable acids, as they exist in ripe fruits, being generally very grateful, may constitute a considerable part of the diet. In the mean time, to obviate the septic tendency, great attention should be paid to cleanliness and ventilation, and keeping the howels regular by mild aperients, or clysters of an emollient or antiseptic nature; and where aphthe appear, acidulated gargles should be directed. If the disease inclines more to the nervous form, with much mental anxiety, tremors, and other irregular affections of the anxiety, tremors, and other irregular anections of the muscles, or organs of sense, the antispasmodic medicines may be employed with more advantage, as ether, camphor, musk, &c., but particularly opium; which should be given in a full dose, sufficient to procure sleep, provided there be no appearances of determination of blood to the head; and it may be useful to call a greater portion of nervous energy to the lower extremities by the pediluvium, or other mode of applying warmth, or occasionally by sinapisms, not allowing these to produce vesication. But if there should be much increased vascular action in the brain, more active means will be required, even the local abstraction of blood, if the strength will permit; and it will

be always right to have the head shaved, and kept cool by some evaporating lotion, and a blister applied to the back of the neck. In like manner, other imto the back of the neck. In like manner, other important parts may occasionally require local means of relief. Urgent vomiting may, perhaps, be checked of relief. Urgent vomiting may, perhaps, be checked by the effervescing mixture; a troublesome diarrhoad by small doses of opium, assisted by aromatics, chalk, and other astrugents, or sometimes by small doses of ipecacuanha; profuse perspirations by the infusum resum a cooling regiment. rosm, a cooling regimen, &c.

Typhus ægyptiacus. The plague of Egypt.

See, a cooling regimen,
Typhus Egyptiacus. The plague of L
Typhus carcerum. The jail-fever.
The camp-fever.
The camp-fever.

TYPHUS CARCERUM. The jail-lever.
TYPHUS GRAVIOR. The most malignant species of typhus. See Tuphus.
TYPHUS TOTERODES.
TYPHUS WITTERODES.
TYPHUS WITTERODES.
TYPHUS MITTOR. The low-fever.
TYPHUS NERVOSUS. The nervous-fever.
TYPHUS NERVOSUS. The nervous-fever.
TYPHUS NERVOSUS.

TYPHUS NERVOSUS. The nervous-fever,
TYPHUS PETECHIALIS. Typhus with purple spots.
TYRI'ASIS. Typicaris. A species of leprosy in
which the skin may be easily withdrawn from the

TYRO'SIS. (From rupow, to coagulate.) A disorder of the stomach from milk curdled in it.

ULCER. (Ulcus, eris, n.; front oloco, a sore.) A purulent solution of continuity of the soft parts of an animal body. Ulcers may arise from a variety of causes, as all those that produce inflammation, from wounds, specific irritation of the absorbents, from sourcy, cancer, the veneral or scrotulous virus, &c. The proximate or immediate cause is an increased action of the absorbents, and a specific action of the arteries, by which a fluid is separated from the blood upon the ulcerated surface. They are variously denominated; the following is the most frequent division: division

1. The simple ulcer, which takes place generally from a superficial wound.

2. The sinuous, that runs under the integuments, and the orifice of which is narrow, but not callous.

3. The fistulous ulcer, or fistula, a deep ulcer with a narrow and callous orifice.

4. The fungous older, the surface of which is covered with fungous flesh.

5. The gangrenous, which is livid, fætid, and gangrenous 6. The scorbutic, which depends on a scorbutic

acrimony. The venereal, arising from the venereal disease.

9. The cancerous ulcer, or open cancer. See Cancer.
9. The carious ulcer, depending upon a carious bone.
10. The inveterate ulcer, which is of long continu-

ance, and resists the ordinary applications.

11. The scrof down ulcer, known by its having arisen from indolent tumours, its discharging a viscid, glairy matter, and its indolent nature.

glairy matter, and its indolent nature.

ULCERA SERPENTIA ORIS. See ciphtha.

Ulcerated sore throat. See Cynanche.

ULLA. The common diminutive utla, or itla, is, according to Dr. Good, most probably derived from the Greek, v\(\lambda\), nite or ite, materia, materies, of the matter, make, or nature of; thus, papula or pamila, of the matter or nature of pappus; lupula, of the matter or nature of paps; pustula, of the matter or nature of paps; pustula, of the matter or nature of pass; and so of many others.

ULMA'RIA. (From ulmus, the clm: so named because it has leaves like the clm.) See Spirwa ulmaria. ULMM. Dr. Thomson has given this temporary

cause it has leaves like the clin.) See Spiran admaria. ULMIN. Dr. Thomson has given this temporary name to a very singular substance lately examined by Klaproth. It differs essentially from every other known body, and must merefore constitute a new and peculiar vegetable principle. It exuded spontaneously from the trunk of a species of elm, which Klaproth conjectures to be the ulmus nigra, and was sent to him from Patrone in 1999. lermo in 1802

2 1. In its external characters it resembles gum. It was solid, hard, of a black colour, and had considerable

lustre. Its powder was brown. It dissolved readily in the mouth, and was insipid.

2. It dissolved speedily in a small quantity of water. The solution was transparent, of a blackish-brown colour, and, even when very much concentrated by evaporation, was not in the least unucilaginous or ropy; nor did it answer as a paste. In this respect ulmin dif-

nor dut auswer as a paste. In this respect unim differs essentially from gum.

3. It was completely insoluble both in alkohol and wither. When alkohol was poured into the aqueous solution, the greater part of the ulmin precipitated in light brown flakes. The remainder was obtained by evaporation, and was not sensibly soluble in alkohol. The alkohol by this treatment acquired a sharpish taste.

4. When a few drops of nitric acid were added to the aqueous solution, it became gelatinous, lost its blackish-brown colour, and a light brown substance precipitated. The whole solution was slowly evaporated to dryness, and the reddish-brown powder which remained was treated with alkohol. The alkohol assumed a golden yellow colour; and, when evaporated, left a light brown, bitter, and sharp resinous substance.

5. Oxymuniatic acid produced precisely the same feets as nitric. Thus it appears that ulmin, by the effects as nitric. effects as fittie. Thus it appears that uninn by the addition of a little oxygen, is converted into a resinous substance. In this new state it is insoluble in water. This property is very singular. Hitherto the volatile oils were the only substances known to assume the form of resins. That a substance soluble in water form of resins. should assume the resinous form with such facility, is very remarkable.

Ulmin when burned emitted little smoke or flame and left a spongy but firm charcoal, which, when burned in the open air, left only a little carbonate of potassa be-

U'LMUS. 1. The name of a genus of plants in the Linnæan system. Class, Pentandria; Order, Digynia.

2. The pharmacopæial name of the common elm.

See Ulmus campestris.

The systematic name of the ULMUS CAMPESTRIS. common elm. Ulmus—foliis duplicato-serratis, basi inaqualibus, of Linnaus. The inner tough bark of this tree, which is directed for use by the pharmacopæias, has no remarkable smell, but a bitterish taste, and abounds with a slimy juice, which has been recommended in nephritic cases, and externally as a useful application to burns. It is also highly recommended in some cutaneous affections allied to herpes and lepra. It is mostly exhibited in the form of decoction, by boiling four ounces in four pints of water to two pints; of which from four to eight ounces are given two or three times a day.

f"ULMUS FULVA. elm, inhabits the northern and western parts of the United States, from Canada to Pennsylvania. The inner bark of this tree is charged with a gummy substance in great quantity, so that if a small piece is chewed in the mouth, it almost instandy fills it with a thick, viscid mucliage. This bark, both in substance and decoction, is a valuable demulcent in dysentery, and decoction, is a variance demanced. In ayounce, and in strangury, either produced by cantharides or resulting from other causes. Elin-bark has been used as food, and been found capable of supporting life in cases of emergency. Externally, it is employed as an emollient application, to promote suppuration, and to answer the different ends to which common poultices are applicable. For this purpose, either the green bark should be bruised, or the dried bark cut into shreds and boiled. Internally, it proves most palatable in the infusion."—Big. Mat. Med. A.]

infusion."—Big. Mat. Med. A.] U'LNA. (From ωλενη, the ulna, or cubit.) Cubitus. The larger bone of the forearm. It is smaller and It is smaller and shorter than the os humeri, and becomes gradually smaller as it descends to the wrist. We may divide it into its upper and lower extremities, and its body or middle part. At its upper extremity are two considerable processes, of which the posterior one and largest is named olecranon, and the smaller and interior one the coronoid process. Between these two processes, the extremity of the bone is formed into a deep articulating cavity, which, from its semicircular shape, is called the greater sigmoid cavity, to distinguish it from another, which has been named the less sigmoid cavity. The olecranon, called also the anconoid process, begins by a considerable tuberosity, which is rough, and serves for the insertion of muscles, and terminates in a kind of hook, the concave surface of which moves upon the pulley of the os humeri. This process forms the point of the elbow. The coronaid process is sharper at its extremity than the olecranon, but is much smaller, and does not reach so high. In bending the arm, it is received into the fossa at the forepart of the pulley. At the external side of the coronoid process is the less sig-moid cavity, which is a small, semiunar articulating surface, lined with cartilage, on which the round head of the radius plays. At the forepart of the coronoid process we observe a small tuberosity, into which the process we observe a small underosity, into which the tendon of the brachialis internus is inserted. The greater sigmoid cavity, the situation of which we just now mentioned, is divided into four surfaces by a pro-minent line which is intersected by a small sinuosity minent line which is intersected by a small sinuosity that serves for the lodgment of mucilagionus glands. The whole of this cavity is covered with cartilage. The body, or iniddle part of the ulna, is of a prismatic or triangular shape, so as to afford three surfaces and as many angles. The external and internal surfaces are flat and broad, especially the external one, and are separated by a sharp angle, which, from its situation, may be termed the internal angle. This internal angle, may be termed the internal angle. This internal angle, which is turned towards the radius, serves for the attachment of the ligament that connects the two bones, and which is therefore called the interosecous ligament. The posterior surface is convex, and corresponds with the olecranon. The borders, or angles, which separate it from the other two surfaces, are somewhat rounded. At about a third of the length of this bone from the top, in its forepart, we observe a channel for the passage of vessels. The lower extremay be termed the internal angle. mity is smaller as it descends, nearly cylindrical, and shightly curved forwards and outwards. Just before it terminates, it contracts, so as to form a neck to the small head with which it ends. On the outside of this little head, answering to the oleranon, a small process, called the styloid process, stands out from which a strong ligament is stretched to the wrist. The head has a rounded articulating surface, on its internal side, which is covered with cartilage, and received into a semilunar cavity formed at the lower end of the radius. Between it and the os cuneiforme, a moveable cartilage is interposed, which is continued from the cartilage that covers the lower end of the radius, and is con-nected by ligamentous fibres to the styloid process of the ulna. The ulna is articulated above with the lower end of the os humeri. This articulation is of the spe-cies called ginglymus; it is articulated also both above and below to the radius, and to the carpus at its lowest extremity. Its chief use seems to be to support and evaporate to the regulate the motions of the radius. In children, both times used to keep extremities of this bone are first cartilaginous, and after

The Ulmus fulva, or slippery ward epiphyses, before they are completely united to ther and western parts of the the rest of the bone.

ULNAR. (Ulmaris; from ulna, the bone so named.)

Belonging to the ulna.

Belonging to the ulna.

ULNAR ARTERY. See Cubital artery.

ULNAR NERVE. See Cubital nerve.

ULNA'RIS EXTERNUS. See Extensor carpi ulnaris.

ULNA'RIS INTERNUS. See Elector carpi ulnaris.

ULNA'RIS INTERNUS. See Lapris lavali.

UMBELLA. (Umbella, ø, f; a little shade, or umbrella.) An umbel; the rundle of some authors. A species of inflorescence in which several flower-stalks of some parky course in learning parend from one come of rays, nearly equal in length, spread from one common centre, their summits forming a level, convex, or

even globose surface, more rarely a concave one.

From the insertion of the umbel, it is distinguished into pedunculate and sessile. The former implies that the rays or flower-stalks come from one; and the latter, that the rays or stalklets come, not from a common peduncle, but from the stein or branch of the plant; as in Sium nodiflorum, and Prunus aviam.

From the division of the umbel it is said to be simple, when single-flowered; as in Allium ursinum: and compound, when each ray or stalk bears an umbellula,

or partial umbel; as in the Anethum faniculum.

The umbella involucrata is supplied with involucrat.

UMBELLULA. A partial or little umbel. See

An ore of iron.

UMBILI'CAL. (Umbilicalis; from umbilicus, the navel.) Of or belonging to the navel.

Umbilicate corp. Furis umbilicalis; Funiculus umbilicalis. The navel-string. A cord-like substance of an intestinal form, about half a yard in length, that proceeds from the navel of the fetus to the centre of the placenta. It is composed of a cutaneous sheath, callular substance one unbilities with a proceed to the placenta. cellular substance, one umbilical vein, and two umbili-cal arteries; the former conveys the blood to the child from the placenta, and the latter return it from the child to the placenta.

Umbilical hernis. See Hernia umbilicalis.
UMBILICAL REGION. Regio umbilicalis. The part
of the abdominal parietes about two inches all round the navel.
UMBILI'CUS. The navel.

UMBILITUUS. The navel.

UMBILITUUS MARINUS. Cotyledon marina; Andro
sace; Acctabulum marinum; Androsace mathnol; Fungus petraus marinus. A submarine production
found on rocks and the shells of fishes, about the coast
of Montpelher, &c. It is said to be, in the form of
powder, a useful anthelmintic and diuretic.

UMBO. (The top of a buckler.) The knob or more prominent part in the centre of the hat or pilus of the

fungus tribe.

UNCEOLA ELASTICA. This plant affords a juice which

UNCIFORM. (Unciformis; from uncus, a hook, and forma, a likeness., Hook-like: applied to bones, &c. UNCIFORM RONE. The last bone of the second row of the carpus or wrist: so named from its book-like

process, which projects towards the palm of the hand, and gives origin to the great ligament by which the ten-

and gives origin to the great figament by which the tendons of the wrist are bound down.

I NCINATUS. (From uncus, a hook.) Uncinate or hooked: applied to the stigma of the Lantuna.

UNDERSTANDING. Intellectus. See Meelogy.

UNDULATUS. Undulated: applied to a leaf when the disk mar the moogin is waved obtusely up and down: as m Reseda lutea.

UNEDO PAPURACEA. See Arbutus unedo.
UNGIDENTUM. (Unquentum, i, n.; from ungo, to anoint.) An ointment. The usual consistence of ointments is about that of butter. The following are among the best formula.

Ligorextrum Apostolorum. Dodeca pharmicum. The apostles ointment: so called because it has twelve ingredients in it exclusive of the oil and vinegar. Not

Unguestum Cantillaridis. Unguestum lyttæ. Ointment of the blistering-fly. Take of the blistering-fly, rubbed to a very fine powder, two ounces; distilled water, eight fluid ounces; resin cerate, eight ounces Boil the water with the blistering-fly to one-half, and strain mix the cerate with the liquor, and then let it evanorate to the proper consistence. This is some evaporate to the proper consistence. This is some times used to keep a blister open, but the savine cerate

Unquentum crtacei. Ointment of spermaceti, some eruptive complaints; also to some kinds of irriformerly called linimentum album, and latterly, untable sores. guention spermacet. Take of spermaceti, six drachins; white wax, two drachins; olive oil, three fluid ounces. Having melted them together over a slow fire, constantly stir the mixture until it gets cold. A simple

emollient ointment.

UNGUENTUM CICUTE. Hemlock ointment. ONGUESTUM CICUEM. Hemlock ontinent. Take of the fresh leaves of hemlock, and prepared hog's lard, of each four ounces. The hemlock is to be brussed in a marble mortar, after which the lard is to be added, and the two ingredients thoroughly incornoover the fire, and after being strained throughly incolor-rated by beating. They are then to be gently melted over the fire, and after being strained through a cloth, and the fibrous parts of the hemlock well pressed, the ointment is to be stirred till quite cold. To cancerous or scrofulous sores this ointment may be applied with a prospect of success.

UNGUENTUM ELEMI COMPOSITUM. Compound ointunguentum e gummi elemi. Take of elemi, a pound; common turpentine, ten ounces; prepared suet, two fluid ounces. Met the elemi with the suet, then remove it from the fire, and immersially the suet, then remove it from the fire, and immersially the suet, then remove it from the fire, and immersially the suet, then remove it from the fire, and immersially the suet, then remove it from the fire, and immersially the suet, then remove it from the fire, and immersially the suet, then remove it from the fire, and immersially the suet of the suet. diasely mix in the turpentine and oil, then strain the mixture through a linen cloth. Indolent ulcers, chilblains, chronic ulcers after burns, and indolent tumours

are often removed by this ointment.

Unquentum hydrargyri fortius. Strong mer-UNDESTUM HYDRARGYRI FORTUS. Strong mercurial ointment, formerly called unguentum caruleum fortius. Take of purified mercury, two pounds; prepared lard, twenty-three ounces; prepared suct, an ounce. First rub the mercury with the suet and a little of the lard, until the globules disappear; then add the remainder of the lard, and mix. In very general use for mercurial frictions. It may be employed in almost all cases where mercury is indicated. all cases where mercury is indicated.

Mild mercurial UNGUENTUM HYDRARGYRI MITIUS. ointment, formerly called unguentum caruleum mitius. Take of strong mercurial ointment, a pound; prepared lard, two pounds. Mix. Weaker than the

hydrargyri nitrati. Ointment of nitrate of mercury. Take of purified mercury an owner state. Take of purified mercury, an ounce; nitric acid, ele-ven fluid drachms; prepared lard, six ounces; olive oil, four fluid ounces. First dissolve the mercury in the acid, then, while the liquor is hot, mix it with the the acid, then, while the industrial state, and oil melted together. A stimulating and detergent ointment. Tinea capitis, psorophthalmia, indolent tumours on the margin of the eyelid, and ulcers in the urethra, are cured by its application.

Unquentum hydrargyri nitratis mitius. Weak-

er only than the former.

UNGUENTUM HYDERRGYRI NITRICO-OXIDI. Oint-ment of nitric oxide of mercury. Take of nitric oxide of mercury, an ounce; white wax, two ounces; pre-pared lard, six ounces. Having melted together the wax and lard, add thereto the nitric oxide of mercury in very fine powder, and mix. A most excellent sti-mulating and escharotic ointment.

UNGUENTUM HYDRARGYRI PRÆCIPITATI ALBI. Ointment of white precipitate of mercury, formerly called unguentum e mercurio pracipitato albo, and latterly unguentum calcis hydrargyri albæ. Take of white precipitate of mercury, a drachm; prepared lard, an ounce and a half. Having melled the lard over a slow fire, add the precipitated mercury and mix. A useful ointment to destroy verminin the head, and to assist in the removal of scald head, venereal ulcers of children, and cutaneous eruptions.

and entaneous eruptions.

UNGUENTUM DYTTE. See Unguentum cantharidis.
UNGUENTUM OPITHALMICUM. Ophthalmic eintment
of Janin. Take of prepared hog's-lard, half an ounce;
prepared tutty, Armenian bole, of each two drachus;
white precipitate one drachm. Mix. This celebrated
outment may be used for the same diseases of the eye and evelid as the ung, hydrarg, nitratis. It must be at first weakened with about twice its quantity of hog's-

UNQUENTUM PICIS ARIDE. See Unguentum resinæ

NOUNTION THIS AUDIDE. Be Organization of the migre.

UNGUENTUM PICIS LIQUIDE. Tar ontinient, formely called unguentum picis; unguentum e pice. Take of tar, prepared suct, of each a pound. Melt them together, and strain the mixture through a linen cloth. This is applicable to cases of tinea capitis, and

UNGUENTUM RESINE FLAVE. Yellow basilicon is in general use as a stimulant and detersive; it is an elegant and useful form of applying the resin.

UNGUENTUM RESINÆ NIGRÆ. Unguentum picis aridæ. Pitch ointment, formerly called unguentum ardae. Pitch ofnument, formerly called unguentum basilicum nigrum, vel tetrapharmacum. Take of pitch, yellow wax, yellow resin, of each nine ounces; olive oil, a pint. Melt them together, and strain the nixture through a linen cloth. This is useful for the same purposes as the tar ointment.

UNGUENTUM SAMBUCI. Elder ointment, formerly called unguentum sambucinum. Take of elder flowers, two pounds; prepared lard, two pounds. Boil the elder flowers in the lard until they become crisp, then strain the ointment through a linen cloth. A cooling and emollient preparation.

Sulphur ointment, for-UNGUENTUM SULPHURIS. enters a surrouses. Support ominent, for-nerly called unguestime subplure. Take of sublined sulplur, three ounces; prepared lard, half a pound-Mix. The most effectual preparation to destroy the itch. It is also serviceable in the cure of other cuta-

neous eruptions.

neous eruptions.

UNGUNTUM SULPHURIS COMPOSITUM. Compound sulphur ointment. Take of sublimed sulphur, half a pound; white hellebore-root, powdered, two ounces; nitrate of potassa, a drachm; soft soap, half a pound; prepared lard, a pound and a half. Mix. This preparation is introduced into the last London Pharmacopæia as a more efficacious remedy for itch than common sulphur ointment. In the army, where it is gene-rally used, the sulphur vivum, or native admixture of sulphur with various heterogeneous matters, is used

suppur with various neterogeneous matters, is used instead of sublimed sulphur.

UNGUENTUM VERATRI. White hellebore ointment, formerly called unguentum heltebori albi. Take of white hellebore-root, powdered, two ounces: prepared lard, eight ounces: oil of lemons, twenty minims.

Mix

UNGUENTUM ZINCI. Zinc ointment. Take of the oxide of zinc, an ounce; prepared lard, six ounces. Mix. A very useful application to chronic ophthalmia and relaxed ulcers.

U'NGUIS. (Unguis, is, m.; from ovek, a hook.)

1. The nail. The nails are horny lamina situated at the extremities of the fingers and toes; composed of

coagulated albumen, and a little phosphate of lime.

2. An abscess of collection of pus between the la mellæ of the cornea transparens of the eye; so called from its resemblance to the lunated portion of the nail of the finger.

3. The lachrymal bone is named os unguis, from its

resemblance to a nail of the finger.

resemblance to a nail of the inger.

4. In botany, unguis, or the claw: applied to the thin part of the petal of a polypetalous corolla,

U'NGULA CABALLINA. See Tussilago.

UNIFLORUS. Bearing one flower.

UNIO. (Unio, pl. uniones; from unus, one: so called because there is never more than one found in called because there is never more than one found in the same shell, or, according to others, for that many being found in one shell, not any one of them is like the other.) The pearl. See Margarita.

U'RACHUS. (From συρου, urine, and εχω, to contain.) Urinaculum. The ligamentous cord that arises from the basis of the urinary bladder, along which it runs, and terminates in the unbilical cord. In the fectuses of brute animals, which the ancients mostly dissected it is a holloy tube, and conveys the urine to

dissected, it is a hollow tube, and conveys the urine to

the allantoid membrane. URA'GHM. (From ovpayos, the hinder part of an rmy.) The apex or extreme point of the heart. URANGLIMMER. Green mica. Chalcolite. An

ore of uranium. (From ovpavos, the firmament: so

URANIS'CUS.

URANIS'CUS. (From oppavos, the Irinament's so-called from its arch.) The palate.
URANITE. See Uranium.
URA'NIUM. Uranite This metal was discovered by Klapreth, in the year 1789. It exists combined with sulphur, and a portion of iron, lead, and silex, in the mineral termed Pechblende, or oxide of uranium. Combined with carbonic acid it forms the chalcolite, or green mica: and mixed with oxide of iron, it conor precentates and mixed with oxide of foli, it constitutes the urantite ochre. It is always found in the state of an oxide with a greater or smaller portion of iron, or mineralized with sulphur and copper. The ores of uranium are of a blackish colour, inclining to a are of a close texture, and when broken present a somewhat uneven, and in the smallest particles a conchoidal surface. They are found in the mines of

Properties of uranium.—Uranium exhibits a mass of small metallic globules, agglutinated together. Its colour is a deep gray on the outside, in the inside it is a pale brown. It is very porous, and is so soft, that it may be scraped with a knife. It has but little lustre. Its specific gravity is between eight and nine. It is more difficult to be fused than even manganese. When intensely heated with phosphate of soda and ammonia, or glacial phosphoric acid, it fuses with them into a grass-green glass. With soda or borax it melts only into a gray, opaque, scoriaceous bead. It is soluble in sulphuric, nuric, and muriatic acids. It combines with sulphur and phosphorus, and alloys with mercury. It has not yet been combined with other combustible bodies. It decomposes the nitric acid and becomes converted into a yellow oxide. The action of uranium alone upon water, &c. is still unknown, probably on account of its extreme scarcity.

Method of obtaining uranium.—In order to obtain uranium, the pechblende is first freed from sulphur by heat, and cleared from the adhering impurities as careas possible. It is then digested in nitric acid; the fully as possible. It is then digested in nitric acid; the metallic matter that it contains is thus completely dissolved, while part of the sulphur remains undissolved, and part of it is dissipated under the form of sulphuretted hydrogen gas. The solution is then precipitated by a carbonated alkali. The precipitate has a lemonyellow colour when it is pure. This yellow carbonate is made into a paste with oil, and exposed to a violent that be a lemonyellow. heat, bedded in a crucible well lined with charcoal.

Klaproth obtained a metallic globule 28 grains in weight, by forming a ball of 50 grains of the yellow carbonate, with a little wax, and by exposing this ball in a crucible lined with charcoal to a heat equal to 1709 of Wedgewood's pyrometer. Richter obtained in a single experiment 100 grains of this metal, which seemed to be free from all admixture. There are probably two oxides of uranium, the protoxide, which is a grayish black; and the peroxide, which is yellow. URANGHRE. An ore of uranium, URATE. Uras. A compound of uric or lithic acid,

with a salifable basis.

URCE OLA. (From urceolus, a small pitcher:
named from its uses in scouring glazed vessels.)

berb feverfew.

UREA. A constituent of urine. The best process for preparing it is to evaporate urine to the consistence of syrup, taking care to regulate the heat towards the end of the evaporation; to add very gradually to the syrup its volume of nitric acid (24° Baumé) of 1.20; to stir the mixture, and immerse it in a bath of iced water, to harden the crystals of the acidulous nitrate of water, to harder decrystats of the administration urea which precipitate; to wash these crystals with iee-cold water to deain them, and press them between the folds of blotting paper. When we have thus separated the adhering heterogeneous matters, we redissolve the crystals in water, and add to them a sufficient quantity of carbonate of potassa, to neutralize the nitric acid. We must then evaporate the new liquor, at a gentle heat, almost to dryness, and treat the residuum with a very pure alkohol, which dis-solves only the urea. On concentrating the alkoholic solution, the urea crystallizes

The preceding is Thenard's process, which Dr. Prout has improved. He separates the latrate of polassa by crystallization, makes the liquid area into a paste with animal charcoal, digests this with cold water, filters, concentrates, then dissolves the new colourless area in

alkohol, and lastly, crystallizes.

Urea crystallizes in four-sided prisms, which are transparent and colourless, with a slight pearly lustre It has a peculiar, but not urinous odour; it does not affect litmus or turmeric papers: it undergoes no change from the atmosphere, except a slight deliquescence in very damp weather. In a strong heat it melts, and is partly decomposed and partly sublimed without change. partly decomposed and partly sublimed without change. The spec grav of the crystals is about 135. It is very soluble in water. Alkohol, at the temperature of the atmosphere, dissolves about 20 per cent.; and, when boiling, considerably more than its own weight, from which the urea separates, on cooling, in its crystalline form. The fixed alkalies and alkaline earths decomposed.

dark iron-gray, and of a moderate splendour; they pose it. It unites with most of the metallic oxides, and forms crystalline compounds with the nitric and oxalic acids.

Urea has been recently analyzed by Dr. Prout and Berard. The following are its constituents:—

| ** 1     | per cent. | per cent.<br>6.66 | per atom.;        |
|----------|-----------|-------------------|-------------------|
| Hydrogen | . 10.00   | 19.99             | $\tilde{1} = 7.5$ |
| Carbon   |           |                   |                   |
| Oxygen   |           | 26.66             | 1 = 10.0          |
| Azote    | . 43.40   | 46.66             | 1 = 17.5          |
|          |           |                   |                   |
|          | 100.00    | 100.00            | 37.5              |
|          |           |                   | -                 |

Uric, or lithic acid, is a substance quite distinct from urea in its composition. This fact, according to Dr. Prout, explains, why an excess of urea generally ac-companies the phosphoric diathesis, and not the lithic. He has several times seen urea as abundant in the urine of a person where the phosphoric diathesis vailed, as to crystallize spontaneously on the addition of nitric acid, without being concentrated by evaporation.

As urea and uric acid, says Berard, are the most azotized of all animal substances, the secretion of urine appears to have for its object the separation of the excess of azote from the blood, as respiration separates from it the excess of carbon.

URE DO. (From ure, to burn.) An itching or burning sensation of the skin, which accompanies many diseases. The nettle-rash is also so called.

URET. The compounds of simple inflammable

odies with each other, and with metals, are commonly designated by this word: as subpluret of phosphorus, carburet of iron, &c. The terms bisulphuret, bisulphute, &c. applied to compounds, imply that they contain twice the quantity of sulphur, sulphuric acid, &c.

existing in the respective sulphuret, sulphate, &c.

URETER. (Ureter, eris, m.; from ovpov, urine.)

The membranous canal which conveys the urine from the kidney to the urinary bladder. At its superior part the kidney to the urinary bladder. At its superior part it is considerably the largest, occupying the greatest portion of the pelvis of the kidney; it then contracts to the size of a goose-quill, and descends over the psoas magnus muscle and large crural vessels into the pelvis, in which it perforates the urinary bladder very obliquely. Its internal surface is lubricated with mucus to defend it from the irritation of the urine in passing.

URETERITIS. (From papitage, the ureter.) An inflammation of the uriner.

URE THERE TIS. (From opports), the utile: because it is the canal through which the utile passes.) A membranous canal running from the neck of the bladder through the inferior part of the penis to the extremity of the glans penis, in which it opens by a loneitudinal orifice, called meatus urinarius. In this course, it first passes through the prestate gland, which, portion is distinguished by the name of the prostatical urethra; it then becomes much dilated, and is known by the name of the bulbous part, in which is situated a cutaneous eminence called the caput gallinaginis or rerumontanum, around which are ten or twelve orifices of the excretory ducts of the prostate gland, and two of the spermatic vessels. The remaining part of the urethra contains a number of triangular mouths, which are the lacunæ, or openings of the excretory duets of the nuccous clands of the urethna. TRETPRITTS. (From overflow, the urethra.) An inflammation in the urethra. See Gonerrhæa. URETICA. (From overou, urine.) Medicines which promote a discharge of urine.

URIAS. (From vorey, urine.) The urethra. URIAS. See Urine, acid. URINA. See Urine.

URINA CULIM. See Urachus. are the lacunæ, or openings of the excretory ducts of

United Arous See Uracaus.
United Arous See Dusavia.
URINA'RIA. 'From verias, urine; so named from its dimetic qualities.) The herb dandelion See Leont slan tararacum.
URINARY. (Urmarius; from urina, urine.) Ap-

pertaining to urine.

URINARY BLADDER. Vesica urinaria. The bladder is a membranous pouch, capable of dilatation and contraction, situated in the lower part of the abdomen, contraction, and the symphysis publs, and opposite to the beginning of the rectum. Its figure is nearly that of a short oval. It is broader on the fore and back than on the lateral parts; rounder above than below,

when empty; and broader below than above, when the urethra, approach one another behind, and form a full It is divided into the body, neck, and fundus, or upper part, the neck is a portion of the lower part, which is contracted by a sphincter muscle. This organ is made up of several coats; the upper, posterior, and lateral parts are covered by a reflection of the peritoneum, which is connected by cellular sub-stance to the muscular coat. This is composed of several strata of libres, the outermost of which are mostly longitudinal, the interior becoming gradually more transverse, connected together by reticular membraue. Under this is the cellular coat, which is nearly of the same structure with the tunica nervosa of the stomach. Winslow describes the internal or villous coat as somewhat granulated and glandular; but this tout as somewate grantanear and grantanary for the has been disputed by subsequent anatomists. How ever, a mucous fluid is poured out continually from it, which defends it from the acrimony of the urine. Sometimes the internal surface is found very irregular, and full of ruge, which appear to be occasioned merely by the strong contraction of the muscular fibres, and may be removed by distending it. The sphincter does may be removed by distending it. The splineter does not seem to be a distinct muscle, but merely formed by the transverse fibres being closely arranged about the The urine is received from the uncters, which enter the posterior part of the bladder obliquely; and when a certain degree of distention has occurred, the muscular fibres are voluntarily exerted to expel it.

URINE. (Urina, α, f. Oυρον; from ορουω, to sh out.) The saline liquid, secreted in the kidneys, rush out.) and dropping down from them, guttatim, through the ureters, into the cavity of the urinary bladder. The secretory organ is composed of the arterious vessels of the cortical substance of the kidneys, from which the urine passes through the uriniferous tubuli and renal papilla into the read pelvis; whence it flows, drop by drop, through the ureters, into the cavity of the urinary bladder; where it is detained some hours, and at length, when abundant, climinated through the urethra.

Few of the apparatus of secretion are so complicated as that of the urine; it is composed of the two kidneys, of the ureters, of the bladder, and the urethra; besides, the abdominal muscles contribute to the action of these different parts, among which the kidneys alone form urine; the others serve in its transportation and expulsion.

Situated in the abdomen, upon the sides of the vertebral column, before the last false ribs and the qua-dratus lumborum, the kidneys are of small volume relatively to the quantity of fluid they secrete. are generally surrounded with a great deal of fat. Their parenchymia is composed of two substances; the one exterior, vascular, or cortical, the other tubular, disposed in a certain number of cones, the base of which corresponds to the surface of the organ, and their summits unite in the membranous cavity called petris. Its comes appear formed by a great number of small hollow fibres, which are excretory canals of a particular kind, and which are generally filled with urine.

In respect of its volume, no organ receives so much blood as the kidney. The artery which is directed there is large, short, and proceeds immediately from the aorta; it has easy communication with the veins and the tubulous substance, as may easily be ascertained by means of the most coarse injections, which, being thrown into the renal artery, pass into the veins and into the pelvis, after having filled the cortical substance.

The filaments of the great sympathetic alone are distributed to the kidneys. The calices, pelvis, and ureter form together a canal which commences in the kidneys, where it embraces the top of the mamillary processes, and, placed at the sides of the vertebral column, it goes in the bottom of the pelvis to the bladder, where it terminates. This last organ is an extensible and contractile sac, intended to hold the fluid secreted by the kidneys, and which communicates with the exterior by a canal of considerable length in man, but very short in woman, called urethra.

The posterior extremity of the urethra is, only in man, surrounded by the prostate gland, which is considered by certain anatomists as a collection of mucous follicles. Two small glands placed before the anus pour a particular fluid into this canal. Two muscles, which descend from the publis towards the rectum, pass upon the sides of the part of the bladder which ends in H h h small are which surrounds the neck of the bladder, and carries it more or less upwards.

If the pelvis is cut open in a living animal, the urine is seen to pass out slowly by the summits of the excre-tory cones. This liquid is deposited in the pelvis of the kidney, and then by little and hale it enters into the ureter, through the whole length of which it passes. thus arrives at the bladder, rato which it penetrates by a constant exudation or dribbling.

A sight compression upon the uriniferous cones makes the urine pass out in considerable quantity; but instead of being limpid, as when it passes out naturally, it is muddy and tluck. It appears then to be filtered by the hollow fibres of the tubular substance.

Neither the pelvis nor the ureter being contractile, probably the power which produces the motion of the urine is, on the one hand, that by which it is poured into the pelvis; and on the other, the pressure of the ab-dominal muscles, to which may be added, when we stand upright, the weight of the liquid.

Under the influence of these causes, the urine passes into the bladder, and slowly distends this organ, some-times to a considerable degree; this accumulation being permitted by the extensibility of different organs.

How does the urine accumulate in the bladder? Why does it not flow immediately by the urethra? and why does it not now introducery by the diethal and why does it not flow back into the ureter? The answer is easy for the ureters. These conduits pass a considerable distance into the sides of the bladder. In proportion as the urine distends this organ, it flattens the ureters, and shuts them so much more firmly as it is more ters, and show inching abundant. This takes place in the dead body as well as in the living; also, a liquid, or even air, injected into the bladder, by the urethra, never enters the ureters. It is, then, by a mechanism analogous to that of certain valves, that the urine does not return towards.

It is not so easy to explain why the urine does not flow by the urethra. Several causes appear to contribute to this. The sides of this canal, particularly to-How by the trethirs. Several catacas appear to conti-bute to this. The sides of this canal, particularly to-wards the bladder, have a continual tendency to con tract, and to lessen the cavity; but this cause alone would be insufficient to resist the efforts of the trine to escape, when the bladder is full. In the dead body, in which the canal contracts nearly in the same manner, it has but a very weak resistance, and does not prevent the passage of the liquid outwards, though the bladder

may be very little compressed.

The angle of the bladder with the urethra, when it is strongly distended, may also present an obstacle to the passage of the urine; but the principal cause, most probably, is the contraction of the elevating nuscles of which, either by the disposition to contracthe anus, which, either by the disposition to contrac-tion of the muscular fibres, or by their contraction under the influence of the brain, press the urethra upwards, compress its sides with more or less force against each other, and thus shut its posterior orifice.

Exerction of urine .- As soon as there is a certain quantity of urine in the bladder, we feel an inclination to discharge it. The mechanism of this expulsion deserves particular attention, and has not always been well understood.

If the urine is not always expelled, this ought not to be attributed to the want of contraction in the bladder, for this organ always tends to contract; but, by the influence of the causes that we have noticed, the internal orifice of the urethra resists with a force that the contraction of the bladder cannot surmount. The will produces this expulsion, 1st, by adding the contraction of the abdominal muscles to that of the bladder; 2dly by relaxing the levalores ani, which shut the urethra. The resistance of this canal being once overcome, the contraction of the bladder is sufficient for the complete expulsion of the urine it contained; but the action of the abdominal muscles may be added, and then the urine passes out with much greater force. We may also stop the flowing of the urine all at once, by contracting the levators of the anus

The contraction of the bladder is not voluntary, though by acting on the abdominal muscles, and the levators of the anus, we may cause it to contract when

The urine that remains in the urethra after the bladder is empty, is expelled by the contraction of the muscles of the perinaum, and particularly by that of the acceleratores urina.

Though the quantity of urine is very copious, and though it contains several proximate principles which are not found in the blood, and consequently a chemical action takes piece in the kinarys, the secretion of the urine is nevertheless very rapid.

The physical properties of the urine are subject to great variations. It rhubarbor madder has been used,

it becomes of a deep yellow, or blood red; if one has breathed an air charged with vapours of oil or turpentime, or if a little rosm has been swallowed, it takes a violet colour. The disagreeable odour that it takes by the use of asparagus, is well known.

I's chemical composition is not less variable. The no e use that is made of watery beverages, the more Considerable the total quantity and proportion of water

considerable the total quantity and proportion of water becomes. If one drinks little, the contrary happens. The uric acid becomes more abundant when the Figures is very substantial, and the exercise traing. Thus used durantsizes, and may even disappear alto-gether, by the constant and excitorive use of unazo-lized food, such assugan gum, butter, oil &c. Cerain and the constant and excitorive and manifestical popularity. sats, carried into the siomach, even in small quantity, are found in a short time in the urine.

The existing rapidity with which this translation takes place, has made it be supposed there is a direct commission between the stomach and the bladder. Even now there are considerable numbers of partisans

in favour of this opinion.

It is not yet long since a direct canal from the stomach to the bladder was supposed to exist, but this passage has no existence. Others have supposed, without has no existence. Others have supposed, without giving any proof, that the passage took place by the cellidar tissue, by the anastomoses of the lymphatic 103-01-, 20.

Darwin having given to a friend several grains of but with naving given to a finema several grains of intracte of polassia, in half an hour he let blood of him, and collected his urine. The saft was found in the trace, but not in the blood. Brande made similar observations with pussing of polassia. He concluded from it that the checkation is not the only means of common nation between the stomach and the urinary organs, but without giving any explanation of the existing needs. St. Exercial Home is also of this opinion.

I rave made experiments in order to clear up this in portant quescion, and I have found, 1st, That whenever pussiate or poassa is injected into the veins, or absolved in the intestinal canal, or by a serous membrane, it very soon passes into the bladder, where it is casily accordised among the urine. 2dly, that if the quantity of prussiate injected is considerable, the tests can discover it in the blood; but if the quantity is small, it processes cannot be recognised by the usual means. 2dly, That the same result takes place by reving the presente and blood together in a vessel. Addy, That the same salt is recognised in all proportions in the urine. It is not extraordinary, then, that Darwin and Brande did not find in the blood the substance that they distinctly perceived in the urine.

With regard to the organs that transport the liquids of the stomach and intestines into the circulating system, it is evident, according to what we have said, speaking of the chyliferous vessels, and the absorption or the years, that these liquids are directly absorbed by the years, and mansported by them to the liver and the the vens, and massponed by them to the river and the heart; so that the direction which these liquids follow, in order to reach the vens, is much shorter than is generally admitted, viz. by the lymphatic vessels, the mesons or glands, and the thoracic duct."—Magraduc's

The turne of a healthy man is divided in general

into,
1. Crude, or that which is emitted one or two hours
1. the most part aqueous, and after enting. This is for the most part aqueous, and often virtualed by son e kinds of food.

2. Carted, which is eliminated some hours after the digestion of the tood, as that which is emitted in the morning after sleeping. This is generally in smaller quantity, thicker, more coloured, more acrid than at any other time. Of such coefed using the colour is usually carried and not unhandsome.

The degree of heat agrees with that of the blood Hence in annes, here are it is warmer, as is perceived if the hand be washed with utine. The specific gravity is greater than water, and that emitted in the 

Though the quantity of urine is very copious, and I what thicker than water. The quantity depends on that of the liquid drink, its diuretic nature, and the

temperature of the air.

Changes of urine in the air .- Preserved in an open vessel, it remains pellucid for some time, and at length there is perceived at the bottom a nubecula, or little cloud, consolidated as it were from the gluten. This nubecula increases by degrees, occupies all the urine, and renders it opaque. The natural smell is changed into a putrid cadaverous one; and the surface is now nato a putrid cadacerous one; and one surface is now generally govered with a cattele, composed of very minute crystals. At length, the urine regains its trans-parency, and the colour is changed from a yellow to a brown; the cadacerous smell passes into an alkaline; brown; the cadaverous smell passes into an alkaline; and a brown, grumous sediment talls to the boitom, filled with white particles, deliquescing in the air, and so conglutinated as to form, as it were, little soft calculi.

Thus two sedements are distinguishable in the urine; the ene white and gelatmous, and separated in the beginning; the other brown and grumous, deposited

by the urine when putrid.

Spontaneous degeneration .- Of all the fluids of the body, the urine first putrities. In summer, after a few hours it becomes turbid, and sordidly black; then deposites a copious sediment, and exhales a fetor like that of putrid cancers, which at length becomes cada-verous. Putrid urine effervesces with acids, and, if distilled, gives off, before water, a urinous volatile

The properties of healthy urine are,
1. Urine reddens paper stained with turnsole and with the juice of radishes, and therefore contains an acid. This acid has been generally considered as the phosphoric, but Thenard has shown that in reality it is the acetic.

2. If a solution of ammonia be poured into fresh urine, a white powder precipitates, which has the pro-

perties of phosphate of lime.

3. If the phosphate of lime precipitated from urine 3. It the prospirate of time precipitate from a time be examined, a little magnesia will be found mixed with it. Fourcioy and Vauquelin have ascertained that this is owing to a little phosphate of magnesia which urine contains, and which is decomposed by the alkali employed to precipitate the phosphate of lime.

4. Proust informs us that carbonic acid exists in urine, and that its separation occasions the froth

which appears during the evaporation of urine.

5. Proust has observed, that urine kept in new casks deposites small crystals, which effloresee in the air, and fall to powder. These crystals possess the properties of the carbonate of lime.

6. When fresh urine cools, it often lets fall a brick

coloured precipitate, which Scheele first ascertained to be crystals of uric acid. All urine contains this acid, even when no sensible precipitate appears when it

7. During intermitting fevers, and especially during diseases of the liver, a copious sediment of a brick-red colour is deposited from urine. This sediment contains

the rosacic acid of Proust.

8. If fresh mine be evaporated to the consistence of a syrup, and muriatic acid be then poured into it, a precipitate appears which possesses the properties of benzoic acid.

9. When an infusion of tannin's dropped into urine, a white precipitate appears, having the properties of the combination of tannin and albumen, or gelatine. Their quantity in healthy urine is very small, often indeed not sensible. Cruickshanks found that the precipitate afforded by tannin in healthy urine amounted

1-240th part of the weight of the urine.

10. If urine be evaporated by a slow fire to the consistence of a thick syrup, it assumes a deep brown colour, and exhales a feetid ammoniacal odour. When colour, and exhales a fælid ammoniacal odour. When allowed to cool, it concretes into a mass of crystals, composed of all the component parts of urine. If four times its weight of alkohol be poured into this mass, at intervals, and a slight heat be applied, the greatest part is dissolved. The alkohol which has acquired a brown colour is to be decanted off, and distilled in a retort in a sand heat till the mixture has boiled for some time, and acquired the consistence of a syrup. By this time and acquired the consistence of a syrup. By this time the whole of the alkohol has passed off, and the matthe whole of the anomo mas passed on, and the mat-ter, on cooling, crystallizes in quadrangular plates, which intersect each other. This substance is urea, which composes 9 20ths of the urine, provided the watery part be excluded. It is this substance which characterizes urine, and constitutes it what it is, and to i which the greater part of the very singular phenomena

of urine are to be ascribed.

11. According to Fourcroy and Vauquelin, the colour of urine depends upon the urea; the greater the proportion of urea the deeper the colour. But Proust has detected a resinous matter in urine similar to the resin of bile, and to this substance he ascribes the colour of urine

12. If urine be slowly evaporated to the consistence of a syrup, a number of crystals make their appearance on its surface; these possess the properties of the mari-

ate of sada.

13. The saline residuum which remains after the separation of urea from crystallized urine by means of separation of urea from crystanized urine by means of alkohol, has been long known by the names of fusible salt of urine, and microcosmic salt. When these salts are examined, they are found to have the properties of phosphates. The rhomboidal prisms consist of phosphate of ammonia united to a little phosphate of soda, the rectangular tables, on the contrary, are phosphate of soda united to a small quantity of phosphate of ammonia; urine then contains phosphate of soda, and phosphote of ammonia.

When urine is cautiously evaporated a few cubic crystals are often deposited among the other salts these crystals have the properties of muriate of am-

15. When urine is boiled in a silver basin. blackens the basin, and if the quantity of unine be large, small crusts of sulphuret of silver may be detached. Hence we see that urme contains sulphur

Urine then contains the following substances:

Water.

10. Albumen. 11. Urea.

2. Acetic acid.
3. Phosphate of lime.

12. Resm

- Phosphate of magnesia. Carbonic acid.
- 13. Muriate of soda.14. Phosphate of soda.15. Phosphate of ammonia.16. Muriate of ammonia.
- Carbonate of lime. Uric acid.
- 17. Sulphur.

8. Rosacic acid

9. Benzoic acid.

9. Benzoic acid.

According to Berzelius, healthy human urine is composed of, water 933, urca 30.10, sulphate of potassa 3.71, sulphate of soda 3.10, phosphate of soda 2.94, muriate of soda 4.45, phosphate of ammonia 1.55, muriate of ammonia 1.50, free acetic acid, with lactate of ammonia, numal matter soluble in alkohol, urea adhering to the preceding, altogether 17.14, earthy phosphates with a trace of fluate of lime 1.0, uric acid 1, mucus of the bladder 0.32, silica 0.03, in 1000.0

No liquor in the human body, however, is so variable, in respect to quantity and quality, as the urine;

able, in respect to quantity and quality, as the urine;

for it varies.

1. In respect to age: in the fætus it is inodorous, insipid, and almost aqueous; but as the infant grows, it becomes more acrid and fætid; and in old age more

2. In respect to drink: it is secreted in greater quantity, and of a more pale colour, from cold and copious draughts. It becomes green from an infusion of Chi-

nese tea.

3. In respect to food: from eating the heads of asparagus, or olives, it contracts a peculiar smell; from the fruit of the opuntia, it becomes red; and from fasting,

4. In respect to medicines: from the exhibition of rhubarb-root, it becomes yellow; from cassia-pulp,

green; and from turpentine it acquires a violet odour.

5. In respect to the time of the year; in the winter
the urine is more copious and aqueous; but in the
summer, from the increased transpiration, it is more sparing, higher coloured, and so acrid that it sometimes occasions strangury. The climate induces the same difference.

6. In respect of the muscular motion of the body: it is secreted more sparingly, and concentrated by motion; and is more copiously diluted, and rendered more crude by rest.

7. In respect of the affections of the mind: thus fright makes the urine pale.

Use.—The urine is an excrementations fluid, like lixivium, by which the human body is not only liberated from the superfluous water, but also from the superfluous salts, and animal earth; and is defended from

Lastly, the vis medicatrix naturæ sometimes elimi-

nates many morbid and acrid substances with the

urine; as may be observed in fevers, dropsies, &cc.
Unine, retention of. A want of the ordinary secretion of urme. In retention of urine there is none secreted: in a suppression, the urine is secreted but cannot be avoided.

Urini, suppression of. See Ischuria. FROCRISIA. (From ουφον, urine, and κρινω, to judge. The judgment formed of diseases by the inspection of urine.

URORRHÆ'A. (From ουρόν, the urine, and ρεω, to flow.) A discharge of the urine.
UROSCO'PIA. (From ουρόν, the urine, and σκοπεω, to inspect.) Inspection of urine, that a judgment of diseases may be made from its appearance.
URSI'NA RADIX. The root of the plant called bald-

See Athusa meum

money. See Athusa me URSINE. Ursinus. URSUS. 1. The bear. Of or belonging to the bear. 2. The name of a genus of animals. Class, Mam-

malia; Order, Feræ. It comprehends the several kinds of bears, the badger, and racoon.

URTICA. (.3b urendo; because it excites an itch-

ing and pustules like those produced by fire.) 1. The name of a genus of plants in the Linuxan system. Class Monacia; Order, Tetrandria. The nettle. 2. The pharmacopeial name of the common nettle.

URTICA DIOICA. The systematic name of the common stinging nettle. This plant is ORTICA DISICAL The systematic name of the containment stinging-nettle. This plant is well known, and though generally despised as a noxious weed, has been long used for medical, culinary, and economical purposes. The young shoots in the spring possess disretic and antiscorbutic properties, and are with these intentions boiled and eaten instead of cabbage greens.

URTICA MORTI'A. See Lameum album URTICA MORTI'A. See Lameum album URTICA PILULIPERA. The systematic name of the pillbearing nettle. Urtica romana. The seed was formerly given against diseases of the chest, but is now deservedly forgotten. To raise an irritation in paralytic limbs, the fresh plant may be employed as producing a more permanent sting than the common

nettle

nettle.

Untica romana. See Urtica pilulifera.

Untica urens. The systematic name of a less nettle than the dioica, and possessing similar virtues.

URTICA'RIA. (From urtica, a nettle.) Febris urticata; Ureda; Purpura urticata; Scarlatina urtica.

The nettle-rash. A species of examthematous fever, known by pyrexia and an eruption on the skin like that produced by the sting of the nettle. The little elevations, called the nettle-rash, often appear instantaneously, especially if the skin be rubbed or scratched, and seldom stay many hours in the same place, and neously, especially if the skin be rubbed or scratched, and seldom stay many hours in the same place, and sometimes not many minutes. No part of the body is exempt from them; and where many of them rise together, and continue an hour or two, the parts are often considerably swelled, which particularly happens in the arms, face, and hauds. These eruptions will continue to infest the skin, sometimes in one place and sometimes in another, for one or two hours together. continue to injest the skin, sometimes in one place and sometimes in another, for one or two hours together, two or three times a day, or perhaps for the greatest part of twenty-four hours. In some constitutions they last only a few days, in others quary months.

URTICATIO. (From urtica, a nettle.) The whipping a paralytic or benumbed limb with nettles

in order to restore its feeling.

IN order to restore its feeling.

U'SNEA. See Lichen saxatilis.

UTERARIA. (From uterus, the womb.) Medicines appropriated to diseases of the womb.

UTERINE. Uterinus. Appertaining to the uterus.

Uterine fury. See Nymphomania.

Uterine fury. See Nymphomania.

Hystera: Metra: Utriculus. The womb. A spongy receptacle resembling a compressed pear, situated in the cavity of the public above the various and between the cavity of the pelvis, above the vagina, and between the urinary bladder and rectum.

the urinary blander and rectum.

The form of the uterus resembles that of an oblong pear flattened, with the depressed sides placed towards the ossa pubis and sacrum; but, in the impregnated state, it becomes more oval, according to the degree of its distention. For the convenience of description, and for some practical purposes, the uterus is distinguished into three parts. The fundus, the body, and the cervix; the upper part is called the fundus, the lower the cervix; the space between them, the extent of which is undefined, the body. The uterus is about

UTE UTE

three inches in length, about two in breadth at the muscular, with fibres running in transverse, orbicular, fundus, and one at the cervix. Its thickness is dif-ferent at the fundus and cervix, being at the former usually rather less than half an inch, and at the latter somewhat more; and this thickness is preserved somewhat hore; and this thickness is preserved throughout pregnancy, chiefly by the enlargement of the veins and lymphatics; there being a smaller change in the size of the arteries. But there is so great a variety in the size and dimensions of the uterus in different women, independent of the states of virginity, marriage, or pregnancy, as to prevent any very ac-curate mensuration. The cavity of the uterus corres-ponds with the external form; that of the cervix leads from the os uteri, where it is very small, in a straight direction, to the fundus, where it is expanded into a diffection, to the tunities, where it is expanded those triangular form, with two of the angles opposed to the entrance into the Fallopian tubes; and at the place of junction between the review and the body of the uterus, the cavity is smaller than it is in any other part. There incoavy is similar than it is many other part. I here is a swell or fulness of ail the parts towards the cavity, which is sometimes distinguished by a prominent line running longitudinally through its middle. The villous coat of the yagina is reflected over the bs ateri, and to the vagant is remerted over the os then, and is continued into the membrane which lines the cavity of the uterus. The internal surface of the uterus is corrugated in a beautiful manner, but the rugge, or wrinkles, which are longitudinal, lessen as they advance into the uterus, the fundus of which is smooth. In the intervals between the under several orifices. In the intervals between the rugg are small orifices, like those in the vagina, which discharge a mucus, serving, besides other purposes, that of closing the os there is the composed of arteries, veins, lymphatics, nerves, and muscular fibres, curiously interwoven and connected together by cellular membrane. The muscular fibres are of a pale colour, and appear also in their texture on a pair colour, and appear also in their texture somewhat different from muscular fibres in other parts of the body. The arteries of the uterus are the sper-matic and hypogastric. The spermatic arteries arise from the anterior part of the aorta, a little below the emulgents, and sometimes from the candigents. They pass over the psoar muscles behind the peritonaum, enter between the two laming or duplicatures of the peritonaum which form the broad ligaments of the uterus, and proceed to the uterus, near the fundus of which they insimuate themselves, giving branches in their passage to the ovaria and Fallopian tubes. The hypogastric arteries are on each side a considerable branch of the internal iliacs. They pass to the sides of the body of the uterus, sending off a number of smaller branches, which dip into its substance. Some branches also are reflected upwards to the fundus uteri, which anastomose with the spermatic arteries, and others are reflected downwards, supplying the vagina. The veins which reconduct the blood from the uterus are verns which reconduct the blood from the deems are very numerous, and their size in the unimpregnated state is proportioned to that of the atteries; but their enlargement during pregnancy is such, that the orifices of some of them, when divided, will admit even of the end of a small finger. The veins anastomose in the manner of the atteries which they accompany out of the atteries which they accompany out of the uterus, and then, having the same names with the arteries, spermatic and hypogastric, the former proceeds to the vena cava on the right side, and on the left to the emulgent vein; and the latter to the internal

From the substance and surfaces of the uterus an infinite number of lymphatics arise, which follow th course of the hypogastric and spermatic blood-vessels. The first pass into the gland of the internal iliac plexus, and the other into the glands which are situated near the origin of the spermatic arteries. Of these Nuck

first gave a delineation.

The uterus is supplied with nerves from the lower mesocolic plexus, and from two small flat circular ganglions, which are situated behind the rectum. ganglions are joined by a number of small branches from the third and fourth sacral nerves. The ovaria derive their nerves from the renal pleus. By the great number of nerves, these pars are rendered very pritable, but it is by those branches which the uterus receives from the faterendal, that the intireste consent netween it and you case ther peaks is closely preserved. The muscular fibres of the aterus have been described in a very different ma mer by a atomists, some of whom have asserted that its substance was chiefly

or reticulated order, while others have contended that In the unimpregnated uterus, when boiled for the purpose of a more perfect examination, the former seems to be a true representation; and when the uterus is distended towards the latter part of pregnancy, these fibres are very thinly scattered; but they may be dis-covered in a circular direction, at the junction between the body and the cervix of the uterus, and surrounding the entrance of each Fallopian tube in a similar order. Yet it does not seem reasonable to attribute the time of labour to its muscular fibres only, if we are to judge of the power of a muscle by the number of fibres of which it is composed, unless it is presumed that those of the uterus are stronger than in common muscles. With respect to the glands of the uterus, none are discoverable dispersed through its submance upon the inner surface of the cervix; between the ruga: there are lacung which secrete mucus, and there are small tollicles at the edge of the os uteri. These last are only observable in a state of pregnancy, when they are much enlarged. From the angles at the fundus of the nuch emaged. From the angles at the turbus of the uterus, two processes of an irregular round form originate, called from the name of the first describer, the Fallapian tubes. They are about three inches in length, and, becoming smaller in their progress from the uterus, have an uneven, tringed termination, called the finbria. The canal which passes through these tubes sextremely small at their origin, but it is gradually enlarged, and terminates with a patulous orifice, the diameter of which is about one-third of an inch, surrounded by the fimbriæ. It is also lined by a very fine vascular membrane, formed into serpentine plice. Through this canal the communication between the Imough this canal the combination between the uterus and ovaria is preserved. The Fallopian tubes are wrapped in duplicatures of the peritonaum, which are called the broad ligaments of the uterus; but a portion of their extremities, thus folded, hang loose on each side of the pelvis. From each lateral angle of the uterus, a little before and below the Fallopian tubes the count lie country. the thems, a infle before and below the Panaphar tubes, the round ligaments arise, which are composed of arteries, veins, lymphatics, nerves, and a fibrous structure. These are connected together by cellular membrane, and the whole is much enlarged during pregnancy. They receive their outward covering from pregnancy. They receive their outward covering from the peritonaeum, and pass out of the pelvis through the ring of the external oblique muscle to the groin, where the vessels subdivide into small branches, and terminate at the mons veneris and contiguous parts. From the insertion of these ligaments into the groin, the reason appears why that part generally suffers in all the diseases and affections of the uterus, and why the inguinal glands are in women so often found in a morbid or enlarged state. The duplicatures of the peritonaum, in which the Fallopian tubes and ovaria are involved, are called the broad ligaments of the uterus. These prevent the entanglement of the parts, and are conductors of the vessels and nerves, as the mesentery is of those of the intestines. Both the round and broad ligaments alter their position during pregnancy, appearing to rise lower and more forward than in the unimpregnated state. Their use is supposed to be that of preventing the descent of the uterus, and to regulate its direction when it ascends into the cavity regulate its direction when it ascends into the cavity of the abdomen; but whether they answer these pur poses may be much doubted. The use of the womb is for menstruation, conception, nutrition of the fectus, and parturition. The uterus is liable to many diseases, the principal of which are retroversion and its falling down, hydatids, dropsy of the uterus, moles, polypes, ulceration, cancer, &c

UTERUS, RETROVERSION OF. By the term retroversion, such a change of the position of the uterus is understood, that the fundus is turned backwards and downwards upon its cervix, between the vagina and rectum, and the os uteri is turned forwards to the publs, and upwards, in proportion to the descent of the phois, and spivatus in proportion to the descent of the findus, so that hy an examination per vaginam, it cannot be felt, or not without difficulty, when the uterus is retroverted. By the same examination there may also be perceived a large round tumour, occupying the also be perceived a large round tunner, occupying the inferior part of the cavity of the pelvis, and pressing the variety at taxwards the pulses. By an examination per areas, the same tunner may be felt, pressing the rectum of the factor of the same time, and if both these examinations are made at the same time, we may

readily discover that the tumour is confined within the regain and rectum. Besides the knowledge of the retroversion which may be gained by these examinations, it is found to be accompanied with other very distinguishing symptoms. There is in every case, together with extreme pain, a suppression of urine; and by the continuance of this distention of the bladder, the tumour formed by it in the abdomen often equals in size, and resembles in shape the uterus in the sixth or seventh months of pregnancy; but it is necessary to observe, that the suppression of urine is frequently absolute only before the retroversion of the uterus, or during the time it is retroverted; for when the retroversion is completed, there is often a discharge of urine, so as to prevent an increase of the distention of the bladder, though not in a sufficient quantity to remove it. There is also an obstinate constipation of the bowels, produced by the pressure of the retroverted uterus upon the rectum, which renders the injection of a clyster very difficult, or even impossible. appears that all the painful symptoms are chiefly in consequence of the suppression of urine; for none of those parts which are apt to sympathize in affections or diseases of the uterus are disturbed by its retrover-The retroversion of the uterus has generally occurred about the third month of pregnancy, and sometimes after delivery it may likewise happen, where the uterus is, from any cause, enlarged to the size it acquires about the third month of pregnancy, but not acquires about the third month of pregnancy, but not with such facility as in the pregnant state, because the enlargement is then chiefly at the fundus. If the uterus is but little enlarged, or if it be enlarged beyond a certain time, it cannot well be retroverted; for, in the first case, should the cause of a retroversion exist, the weight at the fundus would be wanting to produce it; and in the latter the uterus would be raised above the projection of the sacrum, and supported by the

UTRICA'RIA. (From uter, a bottle: so called from its appendages at the end of the leaves resembling bot-

tles, to contain water.) A name of the nepenthes, or wonderful plant. UTRICULUS.

(Dim. of uter, a bottle: so called

from its shape.) 1. The womb.
2. A little bladder. Applied by botanists to a species of capsule, which varies in thickness, never opens by any valve, and falls off with the seed. Sir J. Smith believes it never contains more than one seed, of which it is most commodiously, in botanical language, called an external coat, rather than a capsule. Gærtner applies it to Champodium and Clemanis: in the torner it seems to be pellicula; in the latter, testa.—Smith. U'VA. (Uva, a, f.; Quasi uvida, from its juice.)

An unripe grape.

A tumour on the eye resembling a grape.

VA GRUINA. Crane-berries. The berries of the UVA GRUINA. Ova Gruina. Grane-bernes. The bernes of the Oxygeoros evultarocrypis. They are brought from New-England, and are reckoned antiscorbuite.

Uva passa major. The raisin. See Vitis vinifera.

Uva passa minor. The dried currant. See Vitis

corinthica.

Uva URSI. Bear's whortle-berry. See Arbutus uva

UVEA. (From uva, an unripe grape: so called because, in beasts, which the ancients chiefly dissected, it is like an unripe grape.) The posterior lamina of the iris. See Choroid membrane.

U'VULA. U'VULA. (Dim. of uva, a grape.) Columella; Cion; Gargareon; Columna oris; Gurgulio; Inter-septum. The small conical fleshy substance hanging sepam. The small collect results are supported in the middle of the relum perdualum palati, over the root of the tongue. It is composed of the common membrane of the mouth, and a small muscle resembling a worm which arises from the union of the palatine bone, and descends to the tip of the uvula. It was called Palato staphilinus, by Douglas, and Staphilinus epistaphilinus, by Winslow. By its contraction, the uvula is raised up.

UVULA'RIA. (From uvula; because it cured diseases of the uvula.) See Ruscus hypoglossum.



VA'CCA. The cow. See Milk.

VACCA'RIA. (From vacca, a cow; because it is covered by cows.) The herb cow's basil.

VACCINATION. The insertion of the matter to produce the cow-pox. See Variola vaccina.

VACCINIA. See Variola vaccina.

VACCINIA. See Variota vaccina.
VACCINIUM. (Quasi baccinium, from its berry.)
The name of a genus of plants in the Linnwan system.
Class, Octandria; Order, Monogynia.
Vaccinium myrrillus. The systematic name of the myrile-berry. The berries which are directed in pharmacopenias by the name of bacca myrrillurum, are the fruit of this plant. Prepared with vinegar they are estemed as antiscophilies, and when day nessess. are esteemed as antiscorbutics, and when dry possess astringent virtues.

VACCINIUM OXYCOCCOS. The systematic name of the cranberry plant. Oxycoccos palustris; Vaccinia palustris; Vitis idea palustris. Moor-berry. Cranberry. These berries are inserted in some pharmaco-They are about the size of our haws, and are

perias. They are about the size of our flaws, and are pleasantly acid, and cooling, with which intention they are used medicinally in Sweden. In this country they are mostly preserved and made into tarts.

Vaccinum vitris indea. The systematic name of the red whortleberry. Vitis idea. The leaves of this plant, vaccinium vitis idea, of Linneus, are so adstringent as to be used in some places for tanning. They are said to mitigate the pain attendant on calculous diseases when given internally in the form of decertion. The when given internally in the form of decoction. ripe berries abound with a grateful acid juice; and arc esteemed in Sweden as aperient, antiseptic, and refrigerant, and often given in putrid diseases.

VAGUNA. Vaging uters. The canal which leads from the external orifice of the female pudendum to the uterus. It is somewhat of a conical form, with the narrowest part downwards, and is described as being Arrowest part downtanes, and about two in diameter. But it would be more proper to say, that it is capable of being extended to those dimensions; for in its com-

mon state, the os uteri is seldom found to be more than three inches from the external orifice, and the vagina is contracted as well as shortened. The vagina is composed of two coats, the first or innermost of which composed of two coats, the first or innermost of which is villous, interspersed with many excretory ducts, and contracted into plice, or small transverse folds, particularly at the fore and back part, but, by child-bearing, these are lessened or obliterated. The second coat is composed of a firm membrane, in which muscular fibres are not distinctly observable, but which are endowed, to a certain degree, with contractile powers like a muscle. This is surrounded by cellular membrane which connects it to the neighbouring parts. A brane, which connects it to the neighbouring parts. A Draine, which connects it to the heighbouring parts, aportion of the upper and posterior part of the vagina is also covered by the peritoneum. The entrance of the vagina is constricted by muscular fibres, originating from the rami of the pubis, which run on each side of the pudendum, surrounding the posterior part, and executing an equivalent office, though they cannot be said to form a true sphincter.

The upper part of the vagina is connected to the circumference of the os uteri, but not in a straight fine, so as to render the cavity of the uterus a continuation of that of the vagina. For the latter stretches beyond the former, and, being joined to the cervix, is reflected caver the os utery when the being joined to the cervix, is reflected to the cervix of the control of the cervix of the cervity when the properties are the control of the cervix. over the os uteri, which by this mode of union, is suspended with protuberant lips in the vagina, and permitted to change its position in various ways and direc-When, therefore, these parts are distended and unfolded at the time of labour, they are continued into each other, and there is no part which can be considered as the precise beginning of the uterus or termination of the vagina.

The diseases of the vagina are, first, such an abbreviation and contraction as render it unfit for the uses viation and contraction as render it unit for the uses for which it was designed: secondly, a cobesion of the sides in consequence of preceding ulceration; thirdly, cicatrices after an ulceration of the parts; fourthly, excrescences; fifthly, fluor albus. This abbreviation and

contraction of the vagina, which usually accompany cach other, are produced by original defective formation, and they are seldom discovered before the time of VAGINA'LIS TUNICA. See T marriage, the consummation of which they sometimes prevent. The curative intentions are to relay the parts by the use of emollient applications, and to dilate them to their proper size by sponge, or other tents, or, which are more effectual, by bougies gradually enlarged. But the circumstances which attend this disorder, are sometimes such as might lead us to form an erroneous opinion of the disease. A case of this kind, which was under of the disease. A case of this kind, which was under Dr. Denman's care, from the strangury, from the heat of the paris, and the profuse and inflammatory dis-charge, was suspected to proceed from venereal infec-tion; and with that opinion the patient had been put upon a course of medicine composed of quicksilver, for several weeks, without relief. When she applied to the Doctor, he prevailed upon her to submit to an examination, and found the vagina rigid, so much contracted as not to exceed half an inch in diameter, nor more than one inch and a half in length. The repeated, though fruitless attempts which had been made to complete the act of coition, had occasioned a considerable inflammation upon the parts, and all the suspicious appearances before mentioned. To remove the inflammation she was bled, took some gentle purgative medicines, used an emollient fomentation, and afterward some unctuous applications; she was also advised to live separate from her husband for some time. The inflammation being gone, tents of various sizes were introduced into the vagina, by which it was distended, though not very amply. She then returned to her husband, and in a few months became pregnant. Her labour, though slow, was not attended with any extra-ordinary daticulty. She was delivered of a full-staced child, and afterward suffered no inconvenience. Another kind of constriction of the external parts someother than or observed and which seems to be a mere spasm. By the violence or long continuance of a labour, by the morbid state of the constitution, or by the negligent and improper use of instruments, an inflammation of the external parts, or vagina, is sometimes produced in such a degree as to endanger a mortification. By careful management this consequence is usually prevented; but in some cases, when the constitution of the patient was prone to disease, the external parts have sloughed away, and in others, equal injury has been done to the vagina. But the effect of the inflammation is usually confined to the internal or villous coat, which is some times cast off wholly or partially. An ulcerated surface being thus left, when the disposition to heal has taken place, cicatrices have been formed of different kinds, according to the depth and extent of the ulcera-Rinds, according to the depth and extent of the dicera-tion, and there being no counteraction to the contrac-tile state of the parts, the dimensions of the vagina be-come much reduced, or, if the decration should not be healed, and the contractibility of the parts continue to operate, the ulcerated surfaces, being brought together, may cohere, and the canal of the vagina be perfectly

Cicatrices in the vagina very seldom become an impediment to the connexion between the sexes; when they do, the same kind of assistance is required as was they do, the same kind of assistance is required as was recommended in the natural contraction or abbrevia-tion of the part; they always give way to the pressure of the head of the child in the time of labour, though in many cases with great difficulty. Sometimes the appearances may mislead the jadgment; for the above author was called to a woman in labour, who was thought to have become pregnant, though the hymen remained unbroken; but, on making very particular inquiry, he discovered that this was her second labour and that the part, which, from its form and situation was supposed to be the hymen, with a small aperture, was a cicatrice, or unnatural contraction of the entrance into the vagina, consequent to an ulceration of the part after her former labour. Fungous excressences arising from any part of the vagina or ulcrus, have been distinguished, though not very provedly by the convertices are the convertices. perly, by the general term polypus. See Polypus.

Vagina of Nerves. The outer covering of nerves

By some it is said to be a production of the pia mater only, and by others of the dura mater, because it agrees with it in tenacity, colour, and texture.

VACHAOF TENDONS. A loose membranous sheath,

VAGINA OF TENDONS. A loose men branous sheath formed by cellular membrane, investing the tendons and containing an unctuous juice, which is secreted by

Ganglions are nothing more than an accumulation of this juice.

VAGINA'LIS TUNICA. See Tunica vaginalis

VAGINANS. Sheathing: applied to parts of ani-VAOUVATAS. Sheathing, appried to parts of animals and plants, as the tunica vaginalis or testicle; to leaves which sheath the stein, or each other, as in grasses; and to the leafstalk of the Canna indica, which surrounds the stem like a sheath; hence petiolar

vaginans. VAGITUS. The cry of young children; also the

distressing cry of persons under surgical operation.
VA GUM, PAR. See Par vagum.
VALERIAN. See Valeriana. Valerian, celtic. See Valeriana celtica. Valerian, garden. See Valeriana major, Valerian, great. See Valeriana major.

Valerian, garden. See Valeriana major, Valerian, great. See Valeriana major, Valerian, great. See Valeriana major. Valerian, less. See Valeriana. VALERIA'NA. (From Valerius, who first particularly described it.) 1. The name of a genus of plants in the Linnasan system. Class, Triandria; Order, Monogynia. Valerian.

The pharmacopæial name of the wild valerian.

2. The pharmacopera name of See Faleriana officinalis. Valeriana officinalis. Valeriana officinalis. Vardus celtica. Spica celtica dioscoridis. Celtic nard. The root of this plant, a native of the Alps, has been recommended as a stomachic, carminative, and diuretic. At present it is only used in this country in the theriaca and mithridate, though its sensible qualities promise some considerable medicinal powers. a moderately strong smell, and a warm, bitterish, subacrid taste.

VALERIANA LOCUSTA. Album olus. Corn salad. This is cultivated in our gardens for an early salad. It is a wholesome, esculent plant, generally aperient and antiscorbutic.

and antiscorbulic.

VALERIANA MAJOR. See Valeriana phu.

VALERIANA OFFICINALIS. The systematic name of the Valeriana officinalis. The systematic name of the Valeriana minor. Valeriana systestris; Leuco lachanum. Officinal valerian; Wild valerian. Valerianomorius triandris, folisio omnibus primatis, of Linnæus. The root of this plant has been long extolled as an efficacious remedy in epilepsy, which caused it to be exhibited in a variety of other complaints termed nervous, in which it has been found highly serviceable. It is also in very general use as an antispas-modic, and is exhibited in convulsive hysterical dis-A simple and volatile tincture are directed in

the pharmacoposias.

VALERIANA PHU. The systematic name of the garden valerian. Valeriana major. The root of this plant is said to be efficacious in removing rheumatism,

plant is said to be entered and also inveterate epilepsies.

VALURIANA SYLVESTRIS. See Valeriana officinalis.

VA'LLUM. (From vollus, a hedge stake; so called from the regular trench-like disposition of the hairs.)

The eyebrows.
VALSALVA, ANTON. MARIA, was born at Imola, v Albally, Arron. wirkin, was born at mion, in 1666, and placed at a proper age under Malpighi, at Bologna, where he applied so closely as to impair his health. He took his degree at the age of twenty-one, and connecting surgery with physic, acquired high reputation. He simplified the instruments in use, reputation. He simplified the instruments in use, banished the practice of cauterizing the arteries after amputation, and employed manual operations in the cure of deafness. In 1697, he was chosen professor of anatomy in the university; and under his direction the school acquired great celebrity, among other distinguished pupils of his, Moreagon must be reckoned, whose chief work, "De Seddhus et Causis Morborum," contains many dissections by Valsalva. As he advanced in life he became corpulent and lethargic, and in 1723 was carried off by an apoplectic stroke. His in 1723 was carried off by an apoplectic stroke. His museum was bequeathed to the institute of Bologna, museum was bequeather to the instance or bologia, and his suggical instruments to the Hospital for Incurables. The principal of his works is a treatise, "De Aure Humana;" and after his death, three of his dissertations or anatomical subjects were printed by Morgagni.

VALVA. (Valva; from valves, to fold up.) A thin and transparent membrane situated within certain vessels, as arteries, veins, and absorbents, the office of which appears to be to prevent the contents of the vessel from flowing back.

Valve of the colon. See Intestine. Valve, semilunar. See Semilunar valves.

Valve, tricuspid. See Tricuspid valves.

Valve, triglochin. See Tricuspid valves.
VA LVULA. (Prom valva, a valve, of which it is diminutive.) A little valve. a diminutive )

1. Applied to the valves of the yenal and lymphatic system of animals.

2. In botany, to the parts or halves of a capsule, which split open when the seed is ripe.

ALVULA COLL. See Intestine

VALVULA EUSTACHII. A membranous semilunar valve, which separates the right auricle from the mferior vena cava, first described by Eustachius.

VALVULA MITRALIS. See Mitral valves.
VALVULA SEMILUNARIS. See Semilunar valves.
VALVULA TRIGLOCHINIS. See Tricuspid valves See Tricuspid valves.

ALVULA TULPH. See Intestine.

VALVULE CONSIVENTES. The semilunar folds formed of the villous coat of the intestmum duodenum, and jejunum. Their use appears to be to increase the internal surface of the intestines.

VANKLLOE. See Epidendrum vanilla. VANILLA. See Epidendrum vanilla.

VAPORA RIUM. (From vapor, vapour.) A vapour-bath.

VAPRECULE. The name of an order of plants in Linnear's Fragments of a Natural Method, consisting of such as are, and have a monophylous calvx, like a coloured corolla.

Varce. The French name for kelp

VA'RIA. (From varius, changeable.) The small-

nox; also small red pimples in the face.

VARICE LLA. (Dim. of varia, the small-pox; so called from its being changeable.) Variola lymphatica.

The chicken-pox. A genus of disease in the Class Pyrexia, and Order Exanthemata, of Cullen, known moderate synocha, pimples bearing some resemblance to the small-pox, quickly forming pustules, which contain a fluid matter, but scarcely purulent. and after three or four days from their first appearance.

VARICOCE LE. (From varix, a distended vein, and  $\kappa\eta\lambda\eta$ , a tumour.) A swelling of the veins of the scrotum, or spermatic cord; hence it is divided into the scrotal varicocile, which is known by the appearance of livid and tumid veins on the scrotum; and naricoccle of the spermatic cord, known by techniq hard vermiform vessels in the course of the spermatic Varicocele mostly arises from excessive walkcord. ing, running, jumping, wearing of trusses, and the like, producing at first a slight uneasiness in the part, which, of not remedied; continues advancing towards the loins.

VARIEGATUS. Variegated: applied to an intermixane of colours: as in the leaves of some plants,

Montha rotundifolia, &c.

VARIOLA. (From varius, changing colour, because it disfigures the skin.) The small pox. A genus of disease in the Class Pyrexae, and Order Exauthe mata, of Cullen, distinguished by synocha, eruption of red pumples on the thad day, which on the eighth day contain pas, and afterward drying, fall off in crusts.

It is a disease or a very contagious nature, supposed to have been introduced into Europe from Arabia, and in which there arises a fever, that is succeeded by a number of latte inflammations in the skin, which proceed to suppuration, the matter formed thereby being capable of producing the disorder in another per-It makes its attack on people of all ages, but 800. young of both sexes are more habie to it than those who are much advanced in life; and it may prevail at all seasons of the year, but is most prevalent in the spring and summer.

The small-pox is distinguished into the distinct and confluent, impaying that in the former the eruptions are perfectly separate from each other, and that in the latter they run much into one another

Both species are produced either by breathing air impregnated with the colluvia arising from the bodies of those who labour under the disease, or by the introduction of a small quantity of the variolous matter into the habit of inoculation; and it is probable, that the difference of the small-pox is not owing to any difference in the contagion, but depends on the state of the person to whom it is applied, or on certain circumstances concurring with the application of it.

A variety of opinions have been entertained respecting the effect of the variolous infection on the factus in utero; a sufficient number of instances, however, has

been recorded, to ascertain that the disease may be communicated from the mother to the child. In some cases, the body of the child, at its birth, has been covered with pustules, and the nature of the disease has been most satisfactorily ascertained by inoculating with matter taken from the pustoles. In other cases, there has been no appearance of the disease at the birth, but an eruption and other symptoms of the disease have appeared so early, as it ascer am that the infection must have been received previously to the removal of the child from the uterus.

Four different states, or stages, are to be observed in Four different sales, or stages, are to be observed in the small-pox; first, the feb. inc. accound, the same re-tained, the maturative; and formin, that or the doclina-tion or scabbing. When the disease has arisen natu-rally, and is of the distinct kind, the cruption is com-monly preceded by a reduces to the cyssecones in the throat, pains in the head, oack, and ones, weari-ness and faminess, alternate his of challings and heat, thirst, nausea, inclination to voicit, and a gar is pulse. .

In some instances, these symptoms prevancia a high in some instances, these symptoms prevaring a figure degree, and in others they are very me kenne and triffing. In very young children, statings and coavulstons are apt to take place a short time previous to the appearance of the emption, advays giving great idarin to those not conversant with the frequency of the

About the third or fourth day from the first seizure, the eruption shows itself in little red spots on the face, neck, and breast, and these continue to increase in number and size for three or four longer, at the end of which time they are to be observed dispersed over

several parts of the body.

If the pustules are not very numerous, the febrile symptoms will generally go off on the appearance of the eruption, or then will become very moderate. It sometimes happens, that a number of little spots of an erysipelatous nature are interspersed among the puseryspectators nature are interspeesed among the pus-tudes; but these generally go in again, as soon as the suppuration commences, which is usually about the fifth or sixth day, at which period a small vest le, con-taining an almost colourless fluid, may be observed upon the top of each primpte. Should the pustules be perfectly distinct and separate from each other, the suppuration will probably be competed about the eighth or outh day, and they will then be dilied with a tinck yellow matter; but should they can nooth into each other, it will not be completed till searce days later.

When the pustules are very thick and manierous on the face, it is apt about this time to become much swelled, and the exclids to be cased up, persions to which, there usually arises a hear every and dishulty of swallowing, accompanied with a considerable discharge of viscid saliva. About the eleventh day, the swelling of the face mountly saissales, to zero, a with the affection of the fauces, and is succeeded by the same in brown-red colour, which appearance continues for many days. In those cases warre the pustules are large, and are late in becoming day sun taking off, they are very apt to leave pits behind them, but where they are small, suppurate quelky, and are new in number, they neither leave any marks behind them, nor do they occasion much affection of the system.

In the confluent small pox, the fever which precedes the eruption is much more violent tirm in the distract, being attended usually with great advery, heat, thirst, nausea, vomiting, and a frequent and contracted pidse, and often with come of decision. In Indians, convertisers passe, served-sive fits are aptrooccur, which ether prove tatal before any cruption appears, or they usher in a malagrant species of the disease.

The cruption usually makes its appearance about the third day, being frequently preceded or attended with a rosy efflore-cence, similar to what takes place in the measles: but the fever, although it suffers some slight remission on the coming out of the ecuption, does not go off as in the distinct kind; on the contrary, it be-comes increased after the fifth or sixth day, and contimes considerable throughout the remainder of the

As the eruption advances, the face, being thickly beset with pustules, becomes very much swelled, the eyelids are closed up, so as to deprive the patient of sight, and a gentle salivation ensues, which towards the eleventh day, is so viseld as to be spit up with great; have often a darker appearance, and their moisture is difficulty. In children, a diarrhea usually attends this more copious than usual. When no inflammatory stage of the disease instead of a salivation, which is to stage of the disease instead of a salivation, which is to be met with only in adults. The vesicles on the top of the pimples are to be perceived sooner in the confluent small-pox than in the distinct; but they never rise to an emmence being usually flatted in, neither do they arrive to proper suppuration, as the fluid contained in them, instead of becoming yellow, turns to a brown colour

About the tenth or eleventh day, the swelling of the face usually subsides, and then the hands and feet begin to puff up and swell, and about the same time the vesicles break, and pour out a liquor that forms into brown or black crusts, which, upon falling off, leave deep pits behind them that continue for life; and where the pustules have run much into each other, they then disfigure and scar the face very considerably

Sometimes it happens that a putrescency of the fluids takes place at an early period of the disease, and shows o itself in livid spots interspersed among the pustules, and by a discharge of blood by urine, stool, and from various

parts of the body.

In the confluent small-pox, the fever which, perhaps had suffered some slight remission from the time the eruption made its appearance to that of maturation, is often renewed with considerable volence at this last mentioned period, which is what is called the second-ary fever, and this is the most dangerous stage of the disease. It has been observed, even among the vulgar, that the small-pox is apt to appear immediately before or after the prevalence of the measles. Another curious observation has been made relating to the symptoms of these complaints, namely, that if, while a patient labours under the small-pox, he is scized with the measles, the course of the former is retarded till the cruption of the measles is finished. The measles appear, for instance, on the second day of the cruption of small-pox; the progress of this ceases, till the nea-ales terminate by desquamation, and then it goes on in the usual way. Several cases are, however, recorded in the Medical and Physical Journal, as likewise in the third volume of the Medical Commentaries, in which a concurrence of the small-pox and measles took place without the progress of the former being retarded. distinct small-pox is not attended with danger, except when it attacks pregnant women, or approaches nearly in its nature to that of the confluent, but this last is always accompanied with considerable risk, the degree of which is ever in proportion to the violence and per-manence of the fever, the number of pustules on the face, and the disposition to putrescency which prevails

When there is a great tendency this way, the disease usually proves fatal between the eighth and eleventh day, but, in some cases, death is protracted to the fourteenth or sixteenth. The confluent small-pox, although it may not prove immediately mortal, is very apt to

induce various morbid affections.

Both kinds of small pox leave behind them a predisposition to inflammatory complaints, particularly to opthalmia and visceral inflammations, but more especially of the thorax; and they not unfrequently excite berofula into action which might otherwise have lain dormant in the system.

The regular swelling of the hands and feet upon that of the face subsiding, and its continuance for the due time, may be regarded in a favourable light.

The dissections which have been made of confluent small-pox, have never discovered any pustules internally on the viscera. From them it also appears that variolous pustules never attack the cavities of the body, except those to which the air has free access, as the nose, mouth, trachea, the larger branches of the bronchia, and the outermost part of the meatus auditorius. In cases of prolapsus ani, they likewise frequently attack that part of the gut which is exposed to the air. They have usually shown the same morbid appearances inwardly, as are met with in putrid fever, where the disease has been of the malignant kind. Where the febrile symptoms have run high, and the head has been much affected with coma or delirium, the vessels of the brain appear, on removing the cranium and dura mater, more turgid, and filled with a darker coloured blood than usual, and a greater quantity of serous fluid is found, particularly towards the base of the brain. Under similar circumstances, the lungs

The treatment of small-pox will differ materially according to the species of the disease. In the distinct, ushered in by synochal pyrexia, it may be occasionally proper, in persons of a middle age, good constitution, and plethoric habit, to begin by taking away a modeand plethoric hants to begin by taking away a mode-rate quantity of blood; the exhibition of an emetic will be generally advisable, provided there be no material tenderness of the stomach; the bowels must then be cleared, antimonial and other diaphoretics employed, and the antiphlogistic regimen strictly enforced. It is particularly useful in this disease during the eruptive fever to expose the patient freely to cold air, as taught by the celebrated Sydenham; and even the cold affusion may be proper, where there is much heat and reduess of the skin, unless the lungs be weak. After the eruption has come out, the symptoms are usually so much mitigated, that little medical interference is necessary. But the confluent small-pox requires more manage ment: after evacuating the prime viæ, and employing other means to moderate the fever in the beginning, the several remedies adapted to support the strength and counteract the septic tendency, must be resorted to, as the disease advances, such as have been enumerated under typhus. The chief points of difference are, that bark may be more freely given to promote the process bark may be more freely given to promote the process of suppuration, and opium to relieve the irritation in the skin; when the cruption has come out, it will be generally proper to direct a full dose of this remedy every night to procure rest, using proper precautions to obviate its confining the bowels, or determining to the head. Where alarming convulsions occur also, opium is the medicine chi fly to be relied upon, taking care subsequently to remove any source of irritation from the primæ viæ. Sometimes the tepid-bath may be the prima via. Sometimes the tepho-bati may be useful under these circumstances, and favour the appearance of the eruption, where the skin is pale and cold, the pulse weak, &c. Where at a more advanced period the pustules flatten, and alarming symptoms follow, the most powerful cordial and antispasmodic remedies must be tried, as the confectio opin, ather, wine, &c. For the relief of the brain, or other important part, particularly affected, local means may be used, as in typhus. To prevent the eyes being injured, a cooling lotion may be applied, and blisters behind the ears, or even leeches to the temples

VARIOLA VACCINA. Vaccinia. The cow-pox. Any pustulous disease affecting the cow, may be called the cow-pox: whether it arises from an over distention of the udder, in consequence of a neglect in milking the cow, or from the sting of an insect, or any other cause. But the species which claims our particular attention, is that which was recommended to the world by Dr. Jenner, in the year 1798, as a substitute for the small-pox. This, which originates from the grease in the horse's heel, is called the genuine cow-pox; all other

kinds are spurious.

That the vaccine fluid, fraught with such unspeakable benefits to mankind, derives its origin from this humble benefits to mankind, derives its origin from this humble source, however it may mortify human pride, or medical vanity, is confirmed by the observations and experiments of competent judges. For proofs of this assertion, the reader may consult the works of Dr. Jenner; the Medical and Physical Journal; and a treatise on the subject by Dr. Loy, of which an analysis is given in the Annals of Medicine for the year 1801; and Mr. Ring's work on this disease, which contains the whole mass of evidence that has appeared concerning it. concerning it.

The genuine cow-pox appears on the teats of the cow, in the form of vesicles, of a blue colour approaching to livid. These vesicles are elevated at the margin, and depressed at the centre. They are surrounded gm, and depressed at the centre. They are surrounded with inflammation. The fluid they contain is limpid. The animals are indisposed; and the secretion of milk is lessened. Solutions of the sulphates of zinc and copper are a speedy remedy for these pustules; other copper are a speedy remedy for inter-pustures; uner-wise they degenerate into ulcers, which are extremely troublesome. It must, however, be recollected, that much of the obstinacy attending these cases is owing to the friction of the pustules, in consequence of milking. It is probable, that a solution of the superacetate of lead would be preferable to irritating applications. Similar effects are produced in the hands of the milkers, attended with febrile symptoms, and some-

times with tumours in the axilla. Other parts, where | gone the vaccine disease, their apparent security was the cuticle is abraded, or which are naturally destitute of that defence, are also liable to the same affection, provided active matter is applied. It even appears that, in some instances, pustules have been produced by the application of vaccine virus to the sound cuficle. One case of this kind may be found in a letter from Dr. Fowler, of Salisbury, to Dr. Pearson, published in the first work of Dr. Pearson on this subject.

The spurious cow-pox is white; and another criterion is, that both in the brute animal and in the human subject, when infected with the casual cow-pox, the sores occasioned by the genuine species are more difficult to heal than those which are occasioned by the spurious kind. It is of the utmost importance to distinguish the genuine from the spurious sort, which is also, in some degree, infectious; since a want of such discrimination would cause an idea of security against

the small-pox, which might prove delusive.

Dr. Jenner has elucidated one point of the first importance, relative to the genuine cow-pox itself. had frequently been observed, that when this disorder prevailed in a farm, some of the persons who contracted it by milking were rendered insusceptible of the small-pox, while others continued liable to that infection. This is owing to the different periods at which the disease was excited in the human subject; one person, who caught the disease while the virus was in an active state, is rendered secure from variolous contagion; while another, who received the infection of the cow pox when it had undergone a decomposition, is still susceptible of the small-pox. This uncertainty of the prevention, the value of which is beyond all calculation, is probably the reason why it was not before introduced into practice.

From the violent opposition which vaccine inoculation has met with, in consequence of certain apparent failures in the casual way, it may be doubted whether the public would ever have adopted the prac-tice, had not this fallacy been detected by Dr. Jenner. To him also we are indebted for another discovery of the first importance; namely, that the pustule excited in the human subject by vaccine matter, yields a fluid of a similar nature with that which was inserted. This experiment, so essential to the general propaga-tion of the practice, and so happy in its result, was never before attempted. It was reserved to crown the

labours of Dr. Jenner. A considerable number of instances are on record, to prove that farriers and others who receive infection from the heel of a horse, are either partly or totally deprived of the susceptibility of the small-pox. Dr. Jenner first published an account of his discoveries, this point was enveloped in some degree of obscurity. He then conceived, that the matter of grease was an imperfect preservative against the small-pox. This opinion was founded on the following circumstance: It had been remarked, that farriers either wholly escaped the small-pox, or had that distemper in a milder manner than other people. This, however, is easily reconcileable to reason, if we only suppose, that in some cases the infection is communicated when the virus possesses all its prophylactic virtue; and in others, when its specific quality is in some measure

This variation in the effects produced by the virus of the horse, inclined Dr. Jenner to believe that it was modified, and underwent some peculiar alteration in the teats of the cow. He now concludes, that it is perfect when it excites the genuine disease in the cow; yet a considerable advantage is derived from its being transferred to the latter animal, the nipples of which furnish a more obvious and a more abundant source of this inestimable fluid, than its original element the

This theory, that the preservative against variolous contagion is perfect when it issues from the fountainhead, and comes immediately from the hands of Nature, is consonant with reason, and consistent with Thus, one obstacle more to the universal adoption of the practice is removed.

Another point respecting vaccine inoculation, which has been much controverted, is the permanency of its effect. Instances have been known where persons have escaped the small-pox for a number of years, and yet have ultimately proved not insusceptible of its infection. When such persons had previously under-

erroneously ascribed to that cause; but we have not even a shadow of proof, that the cow-pox possesses in the least degree the property of a temporary prophylactic, since it appears not even to retard the eruption of the small-pox, where previous infection has been received

By this remark, it is not meant to be asserted, that it never supersedes or modifies the small-pox, for we have great reason to believe that such beneficial effects often flow from vaccination; but where an eruption of the small-pox actually takes place after vaccine inoculation, the two diseases frequently co-exist, without retarding each other in the smallest degree. therefore, contrary to all reason and analogy, to consider the cow-pox as a mere temporary preservative: it is nothing less than a perfect and permanent security against that terrible disease.

A number of cases are recorded by Dr. Jenner, and other authors, who have written on this subject, in which persons who have received the cow-pox by casual infection, twenty, thirty, forty, and fifty years before, still continued insusceptible of variolous contagion, in whatever form it was applied.

As the cow-pox destroys the susceptibility of the As the cow-pox, usersoys the susceptionity of the small-pox, so the small-pox destroys that of the cow-pox. To this general rule, however, a few exceptions are said to have occurred. Certain it is, that a pustule has now and then been excited by the insertion of vaccine virus, in those who have had the small-pox, and that this pustule has been known to yield to the genuine virus; but it is not equally certain that the pustule has been perfect in all respects. Possibly, it may have been defective in point of size or duration, in respect to its areola, or the limpidity of its contents. such a pustule has, in some instances, yielded effectual virus, is admitted; but this is no more than what has often happened, in cases where persons who have had the small-pox are a second time submitted to that infection in the same form.

The artificial cow-pox in the human subject is much milder than the casual disease; and incomparably milder than the small-pox, even under the form of inoculation. It neither requires medicine nor regimen; it may be practised at any season of the year; and not being infectious by effluvia, one person may be inoculated without endangering the life of another.

This affection produces no pustulous eruptions. When such attend vaccine inoculation, they are owing to some adventitions cause, such as the small-pox, which it is well known may co exist with the cow-pox. The vaccine vesicle is confined to the parts where matter is inserted; it is, therefore, entirely a local and an inoculated disease. Nevertheless, it is certain, that eruptions of other kinds, in some instances, attend vaccine inoculation; such as a nettle-rash, or an eruption resembling a tooth-rash, but rather larger than what is commonly called by that name.

Among other singularities attending the cow-pox, the mildness of the disease, under the form of inoculation, has been urged as an argument against the practice. the cause appearing to ordinary comprehensions, in-adequate to the effect. This, it must be allowed, is the hest apology that can be offered for skepticism on that point; but it will weigh but little when put into the scale against actual observation, and incontrovertible fact. The efficacy of the cow-pox as a safeguard against the small-pox, rests, perhaps, on more extensive evidence, and a more solid foundation, than any other axiom in the whole circle of medical science,

That the cow-pox is not infectious by effluvia, is naturally concluded from its never being communicated from one person to another in the dairies; where the disease is casual, and appears under its worst form. The same inference may be drawn from its never spreading in a family, when only one person is incutated at a time. To confirm this proposition more fully, the vaccine pustules have been ruptured, and persons who have never had the disorder have been suffered to inhale the effluvia several times a day, but to no purpose. This is no more than might be expected, in an affection where the pustulous appearance on the surface of the body is nearly local.

As to the constitutional indisposition, it is seldom considerable, unless there is a complication of this with some other distemper; and whenever any unfavourable symptoms appear, they may in general be reason to believe, that no ill consequence ever arises from the cow-pox itself, unless from ignorance or neglect.

But notwithstanding the symptoms are so mild, they frequently occur at a very early period. A drowsiness which is one of the most common attendants of the disease, is often remarked by the parents themselves within forty-eight hours after the matter is inserted In a majority of cases, a slight increase of heat is per ceptible, together with an acceleration of the pulse, and copinity together the content of the such a degree as to alarm the most timorous mother. Sometimes the patient is restless at nights; and now and then a case is met with, in which vomiting occurs, but in many cases. no constitutional indisposition can be perceived. Even then, the cow-pox has never failed to prove an effectual preservative against the small-pox, provided the pustule has been perfect.

This being the grand criterion of the security of the patient, too minute an attention cannot be paid to its rise, progress, and decline. The best mode of inoculating is by making a very small oblique puncture in the arm, near the insertion of the deltoid muscle, with

the arm, near the insertion of the delivid imisele, with the point of a lance charged with fluid matter. In order to render infection more certain, the instrument may be charged again, and wiped upon the puncture. In places where the patient is likely to be exposed to variolous contagion, it is advisable to inoculate in more places than one, but unless there is darger of catching the small-pox, it is better not to make more than one puncture in each arm, lest too much inflammation should ensue.

The vaccine fluid may be taken for inoculation as soon as a vesicle appears; but if the vesicle is punc-tured at a very early period, it is more apt to be miur-ed. When virus is wanting for inoculating a consi-derable number, it is better to let the pustule remain untouched, til about the eighth day, by which time it has in general acquired a reasonable magnitude. After that day, if the pustule has made magnitude. After that day, if the pustule has made the usual progress, the matter begins to lose its virtue; but it may, in general, be used with safety, though with less certainty of producing infection, till the areola begins to be ex-

The first sign of infection commonly appears on the third day. A small red spot, rather elevated, may be perceived at the place where the puncture was made. Sometimes, however, the mark of infection having succeeded is not visible till a much later period. It may be retarded, or even entirely prevented, by any other disorder, such as dentition, or any complaint attended with fever, or by extreme cold. Another frequent cause of a slow progress in the pustule, or a total failure of success, is debility. Sometimes it is impossible to discover any sign of infection for above a fortnight. In this respect the cow-pox is subject to the same laws, and liable to the same variation, as the

When a considerable inflammation appears within two or three days after inoculation, there is reason to suspect that infection has not taken place; and if suppuration ensues, that suspicion ought, in general, to stand confirmed. Now and then, however, it happens, that after the spurious pustule, or more properly speaking, the phlegmon, has run its course, which is within a few days, a vesicle begins to appear, bearing every characteristic of the genuine vaccine disease, and yielding a limpid and efficient virus for future inocuyeaung a imput and entered virus for futire inoculations. In this case the patient is as perfectly seemed from all danger of the small-pox, as if no festering of the pureture had preceded. The occurrence of such a case, though rare, is worthy to be recorded; because some practitioners have concluded a spurious pustule to be a certain proof of failure.

The areola commonly begins to be extensive on the ninth day, and to decline about the eleventh or twelfth. At this period also the pustule begins to dry; the first sign of which is a brown spot in the centre portion as this increases the surrounding efflorescence decreases, till at length nothing remains but a circular scab, of a dark-brown mahogany colour, approaching to black. Sometimes it resembles the section of a tamarind-stone; and it often retains the depression in the centre, which characterizes this disease before exsiccation takes place.

Instances have been known, where the vaccine pus-

traced to some other cause. We have indeed great | tule, though regular, and perfect in all other respects, has been totally destitute of arcola; at least, where neither the medical practitioner, on visiting the patient, nor the attendants, have remarked any appearance of that symptom. In these cases, the patient has proved as insusceptible of variolous infection, as if the surrounding efflorescence had covered the whole arm. must, however, he confessed that we have no proof of the non-existence of an arcola in these cases. It might the non-existence of an areola in these cases. have been trieval; it might have been transient; yet it might have been effectual. There is, however, greater reason to believe, that the surrounding efforescence, though usually a concomitant circumstance, is not an essential requisite to the vaccine disease.

If by any accident the vesicle is ruptured, suppuration often ensues. In this case, more attention than ordinary ought to be paid to the progress, and to all the phenomena of the local affection; both on account of the uncertainty of success in the pustule, as a pro-phylactic, and the greater probability of tedious ulcer-

If there is room for the least doubt of the sufficiency of the first ineculation, a second ought to be performed without delay. This, if unnecessary, is seldom attended with inconvenience, and never with donger. Either no effect is produced, or a slight festering, which terminates in a few days. An exception occurs, but rarely, where a suprome or pushars come against rarely, where a spurious, or perhaps, even a genuine pustule, takes place, in those persons who are known to have had the cow-pox or the small-pox already; but this cannot be the least cause of alarm to any one who knows the benign character of the distemper.

Various topical applications, both stimulant and sedative, have been recommended, in order to allay the violence of inflammation. If the operation for the insertion of matter is not unnecessarily severe, nor the pustule irritated by friction, or pressure, or other viopustue firmated by frictions, or pressure, or other vio-lence, no such applications are necessary. Neverthe-less, if either the anxiety of the professional man, or the importunity of a tender parent, should demand a deviation from this general rule, any of the following remedies may be had recourse to. The pustule may be touched with very diluted sulphuric acid; which should be permitted to remain on the part half a minute, and then be washed off with a sponge dipped in cold water. This has been ignorantly, or artfully, called an escharotic; but any one who tries the applicution will soon discover, that its operation is mild and

To avoid cavil and misrepresentation, it is better to apply a saturnine lotion; compresses, dipped in such a lotion, may be applied at any time when inflammation runs high, and renewed as occasion requires.

If the pustule should chance to be broken, a drop of the liquor plumbi acetatis, undiluted, may be applied as an exsiceant; but if ulceration threatens to become obstinate, or extensive, a mild cataplasm is the best resource. In case the ulceration is only superficial, and not attended with immoderate inflammation, a bit of any adhesive plaster, spread on linen, will prove the most convenient dressing, and seldom fail of success. It will, in general, be unnecessary to renew it oftener than every other day.

These minute observations no one will despise, unless there be any person so ignorant as not to know that the care of the aum is almost the whole duty of the medical practitioner in vaccine inoculation; and that medical practioner in vaccine inoculation; and that nothing disgusts the public so much against the practice, as a sore tirm, and the ill consequences which, from a neglect of that symptom, too often ensue.

When fluid virus cannot be procured, it is necessary

to be cautious how it is preserved in a dry state. to be cautions flow it is preserved in a dry state. The most improper mode is that of keeping it on a lancet; for the metal quickly rusts, and the vaccine matter becomes decomposed. This method, however, is as likely to succeed as any, when the matter is not to be kept above two or three days. If the virus he taken on glass, care must be taken not to dilute it much; otherwise it will probably fail.

otherwise it with pithoday ran.
Coron th end is a very commodious vehicle. If it is
intended to be sent to any considerable distance, it ought
to be repeatedly dipped in the virus. No particular
caution is necessary with regard to the exclusion of air; nevertheless, as it can be done with so little trouble, and is more satisfactory to those who receive the matter, it is better to co. ply with the practice. On this account, it may be enclosed in a glass tube, or in a

tobacco-pipe sealed at each end, or between two square | bits of glass, which may, if necessary, be also charged with the matter, and wrapped in gold-beater's skin.

Nothing is more destructive to the efficacy of cowpock matter than heat: on this account it must not be dried near the fire, nor kept in a warm place. The advantage of inserting it in a fluid state is so great, that it is to be wished every practitioner would endeate. vour to keep a constant supply for his own use, by inoculating his patients in succession, at such periods as are most likely to answer that purpose.

The rapidity with which this practice now spreads in various parts of the globe, justifies our cherishing a hope, that it will ere long extinguish that most dreadful pestilence, and perpetual bane of human felicity, the

[Dr. Sylvanus Fansher, of Middletown, in Connecticut, has devoted much time and attention to vaccination; and, in the following letter to Dr. Mitchill, proposes a method to hasten the progress of the vaccine

" Middletown, (Conn.) March, 1828.

" DR. MITCHILL,

"Sir,—As you had the honour of announcing the happy tidings of the mild substitute for the small-pox in America, and as you once made honourable mention of my name relative to the art of preserving the vaccine virus, I therefore take the liberty to trouble you with the result of a series of experiments to hasten the progressive stages of the vaccine vesicle, which, I am induced to believe, promises to the world additional advantages from vaccination.

vantages from vaccination.

"During the earlier part of my vaccine practice, when persons came to me, with guest concern, to know whether it would be too late to vaccinate a person, who had been exposed to the small pox a week or more, and I have been under the painful necessity of expressing my fears that it would be too late; I have, from past experience, often felt their woes, and sighed for a power that seemed to be denied to vaccinators or inoculators, which was, to be able to force forward the vaccine process, so as to hasten the constitutional affection at an earlier period than the well-known time for symptoms in either inoculation or vaccination.

"Having been an eye-witness of the extreme anguish of two line children in 1803 and 1804, who applied too late for vaccination, I commenced making experiments to expedite vaccination, by various methods of insert-ing the virus. At length I found, that by making broad punctures on the body and shoulders, with active vaccine virus, I was able to produce an early pustule, and bring on the symptoms from 30 to 40 hours sooner than And I am now able to produce above forty sucusual. And I am now able to produce above forty suc-cessful experiments to accelerate the vaccine process, substantiated by high medical authority. I write to you, Sir, because your sagacity and discernment will be the first to discover the usefulness of this improve-ment, and the first to detect error.

"I have the honour to be, &c.

"SYLVANUS FANSHER." We may observe, from the above letter, that Dr. Fansher's method of hastening the vaccine process, by inserting the virus repeatedly by broad punctures on the body and shoulders, will probably prove efficacious. The ordinary mode of vaccination is, to introduce the smallest possible quantity of vaccine matter into the puncture; and hence in frequently happens, that the effect upon the constitution is so slight as to be hardly, or even not at all, perceptible. The consequence is, that cases of varioloid have sometimes occurred after vaccination, probably in cases in which it had not produced its proper influence on the system, or where that influence was insufficient. Dr. F.'s method will, doubtless, charge the system with the genuine disease, and prevent the alter occurrence of variofield, or various (small-pox). He thinks, however, that it will do more, and force the vaccine to outrun the small-pox, where exposure to infection has taken place. That it may do so, or at least that the effectual introduction of the vaccine may modify the small-pox, the following case, which a medical friend has reported to us, would seem to prove

A child exposed to the influence of the natural smallpox was vaccinated, and four days after, the operation was repeated. On the eighth day from the first vaccination no appearance was observed of the progress of the kine-pock. Further vaccination was then con-

sidered unnecessary and too late, and the parents were advised to have the child inoculated with the smallpox, which was preferable to having it in the natural way. Matter was taken from the brother, who had the small pox very badly in the adjoining room, and inserted in the arm, near where the vaccine matter had been inserted. The pock rose on the arm, and to the surprise of the physician, the vaccine vesicle also rose, and they progressed together, modifying each other. The vaccine pock was smaller than usual, and went through its stages sooner than is common, though it had previously laid dormant, and appeared to have been put into activity by the small-pox. The smallpox was also modified, the pock were few, the sickness triffing, the continement nothing; and the child recovered before his brother, who was first taken. A.]

VA'RIUS. (From varus, unequal: so called from the irregularity of its shape.) The cuboid bone was for-

irregularily of its snape.) The cuboid bone was formely called os varium, from its irregular shape.

VA'RIX. (From varus, i. e. obtortus.) A dilatation of a vein. A genus of disease in the Class Leades, and Order Tumores, of Cullen; known by a soft tumour on a vein which does not pulsate. Varioses veins mostly become serpentine, and often form a plexus of knots, especially in the groins and scrotum.

and became a professor of physic and surgery in his native city. At thirty, he was invited by Pope Gregory XIII. to settle at Rome as his first physician, and professor in the College of Sapienza. He was advancing in reputation by his anatomical discoveries, as well as in his practice, when a premature death cut him off in 1573. He was particularly distinguished in the Anatony of the Brain, which he described in his Work

De Nervis Opticis, &c.:" and among the parts discovered, or more accurately demonstrated by him, was that formed by the union of the crura cerebri, and cerebelli, which has been since called the Pons Varolii, and which gives origin to several nerves. After his death, was published "De Resolutione Corporis Humani," an anatomical compendium, chiefly according to the an cients, but with several new observations.

VA'RUS. See lonthus.

(Vas, vasis, n.; from vasum: hence in the plural, vasa, orum; a vescendo, because they convey drink.) A vessel: applied to arteries, veins, ducts, &c.

VAS DEFERENS. A duct which arises from the epi-didymis, and passes through the inguinal ring in the spermatic cord into the cavity of the pelvis, and termi-nates in the vesicula seminalis. Its use is to convey the semen secreted in the testicle, and brought to it by

the epididymis into the vesicula seminalis.

Va'sa brevia. The arteries which come from the spleen, and run along the large arch of the stomach to

VASA VORTICOSA. The contorted vessels of the choroid membrane of the eye.
VA'STUS. (So called from its size.) A name given

only to some muscles. A large, thick, and fleshy muscle, situated on the outer side of the thigh: it arises by a broad thick tendon, from the lower and anterior part of the great trochanter, and upper part of the linea aspera; it likewise adheres by fleshy fibres, to the whole outer edge of that rough line. Its fibres descend ob-liquely forwards, and after it has run four or five inches downwards, we find it adhering to the anterior surface and outer side of the cruræus, with which it continues to be connected to the lower part of the thigh, where we see it terminating in a broad tendon, which is inwe see it terminating in a broad tendon, which is in-serted into the upper part of the patella laterally, and it sends off an aponeurosis that adheres to the head of the tibia, and is continued down the leg. VASTOS INTERIUS. This muscle, which is less con-siderable than the vastus externus, is situated at the

inner side of the thigh, being separated from the pre-

ceding by the rectus.

It arises tendinous and fleshy-from between the fore part of the os femoris, and the root of the less trochanter, below the insertion of the psoas magnus, and the iliacus internus; and from all the inner side of the linea aspera. Like the vastus externus it is connected with the cruracus, but it continues longer fleshy than that muscle. A little above the knee we see its outer edge uniting with the inner edge of the rectus, after which it is inserted tendinous into the upper part and

tween vegetables and animals is, that the latter are, in general, capable of conveying themselves from place to place; whereas vegetables, being fixed in the same place, absorb, by means of their roots and leaves, such

support as is within their reach.

The nutrition or support of plants appears to require water, earth, light, and air. There are various experiments which have been instituted to show, that water is the only aliment which the root draws from the earth. is the only affinent which he root maws from the carton-Van Helmont planted a willow, weighing fifty pounds, in a certain quantity of earth covered with sheet-lead; he watered it for five years with distilled water; and at the end of that time the tree weighed one hundred and sixty-nine pounds three ounces, and the earth in which it had vegetated was found to have suffered a loss of no more than three ounces. Boyle repeated the same experiment upon a plant, which at the end of two years weighed fourteen pounds more, without the earth in which it had vegetated having lost any perceptible portion of its weight.

Duhamel and Bonnet supported plants with moss and fed them with mere water: they observed, that the vegetation was of the most vigorous kind; and the the vegetation was of the most state and a maturalist of Geneva observes, that the flowers were more odoriferous, and the fruit of a higher flavour. Care was taken to change the supports before they could suffer any alteration. Tillet has likewise carsed could suffer any alteration. Tillet has likewise tarsed plants, more especially of the gramineous kind, in a similar manner, with this difference only, that me supports were pounded glass, or quartz in powder. has observed, that a plant, which weighed three pounds, gained three ounces after a heavy dew. Do we not every day observe hyacinths and other bulbous plants, every day observe hyacimis and other outhous piants, as well as gramineous plants, raised in saucers or bottles containing mere water? And Braconnot has lately found mustard-seed to germinate, grow, and produce plants, that came to maturity, flowered, and ripened their seed, in litharge, thowers of sulphur, and very small unglazed shot. The last appeared least favourable to the growth of the plants, apparently because their roots could not penetrate between it so easily

All plants do not demand the same quantity of water; and nature has varied the organs of the several individuals conformably to the necessity of their being sup-plied with this food. Plants which transpire little, such as the mosses and the lichens, have no need of a considerable quantity of this fluid; and accordingly they are fixed upon dry rocks, and have scarcely any roots; but plants which require a larger quantity, have roots which extend to a great distance, and absorb humidity throughout their whole surface.

The leaves of plants have likewise the property of absorbing water, and of extracting from the atmosphere the same principle which the root draws from the earth. But plants which live in the water, and as it were swim in the element which serves them for food, have no need of roots; they receive the fluid at all their pores; and we accordingly find, that the fucus,

the live, &c. have no roots whatever.

The dung which is mixed with earths, and decomposed, not only affords the alimentary principles we have spoken of, but likewise favours the growth of the plant by that constant and steady heat which its ul-terior decomposition produces. Thus it is that Faterior decomposition produces. Thus it is that Fa-broni affirms his having observed the developement of leaves and flowers in that part of the tree only, which was in the vicinity of a heap of dung.

From the preceding circumstances it appears, that the influence of the earth in vegetation is almost totally confined to the conveyance of water, and probably the elastic products from putrefying substances, to the

Vegetables cannot live without air. periments of Priestley, Ingenhousz, and Sennebier, it is ascertained, that plants absorb the azotic part of the atmosphere; and this principle appears to be the cause of the fertility which arises from the use of putrelying matters in the form of manure. The carbonic acid is likewise absorbed by vegetables, when its quantity is

Small. If in large quantity, it is futal to them.

Chaptal has observed, that carbonic acid predominate in the fungus, and other subterraneous plants.

But, by causing these vegetables, together with the principle and artificial tannin.

inner side of the patella, sending off an aponeurosis which adheres to the upper part of the thin.

VEGETABLE. Vegetabilis. One of the three great into the light, the acid very nearly disappeared; the divisions of nature. The most obvious difference bevegetable fibres being proportionally increased, at the same time that the resin and colouring principles were developed, which he ascribes to the oxygen of the same acid. Semebier has observed, that the plants same acid. Semebier has observed, that the plants which he watered with water impregnated with carbonic acid, transpired an extraordinary quantity of oxygen, which likewise indicates a decomposition of

the acid.

Laght is almost absolutely necessary to plants. In the dark, they grow pale, languish, and die. The tendency of plants towards the light is remarkably seen in such vegetation as is effected in a chamber or place where the light is admitted on one side; for the plant never fails to grow in that direction. Whether the matter of light be condensed into the substance of plants, or whether it act merely as a stimulus or agent, without which the other requisite chemical processes

cannot be effected, is uncertain.

It is ascertained, that the processes in plants serve, like those in animals, to produce a more equable these in annuals, to produce a more equate temperature, which is for the most part above that of the atmosphere. Dr. Hunter, quoted by Chaptal, observed, by keeping a thermometer plunged in a hole made in a sound tree, that it constantly indicated a temperature several degrees above that of the atmosphere. phere, when it was below the fifty sixth division of Fahrenheit; whereas the vegetable heat, in hotter weather, was always several degrees below that of the atmosphere. The same philosopher has likewise observed, that the sap which, out of the tree, would freeze at 32°, did not freeze in the tree unless the cold were augmented 15° more.

were augmented 15° more.

The vegetable heat may increase or diminish by several causes, of the nature of disease; and it may even become perceptible to the touch in very cold weather, according to Buffon.

The principles of which vegetables are composed, if the principles of which vegetables are composed, if the principles of their analysis as lar as our means have hitherto allowed, are chiefly carbon, hydrogen, and oxygen. Nitrogen is a constituent principle of several, but for the most part in small quantity. Potassa, soda, lime, magnesia, silex, alumina, sulphur, phosphorus, iron, manganese, and muriatic acid, have likewise been reckoned in the number; but some of likewise been reckoned in the number; but some of these occur only occasionally, and chiefly in very small quantities; and are scarcely more entitled to be considered as belonging to them than gold, or some other substances, that have been occasionally procured from their decomposition.

The following are the principal products of vegeta-

1. Sugar. Crystallizes. Soluble in water and alko-Taste sweet. Soluble in nitric acid, and yields 2. Sarcocol. Does not crystallize. Soluble in water and alkohol. Taste bitter sweet. Soluble in nitric

and alkohol. acid, and yields oxalic acid.

3. Asparagin. Crystallizes. Taste cooling and nau-Soluble in nitric acid, and converted into bitter principle and artificial tannin. 4. Gum. Does not crystallize. Taste insipid.

4. Gum. Does not crystallize. Taste insipid. So-luble in water, and forms mucilage. Insoluble in alkohol. Precipitated by silicated potassa. Soluble in nitric acid, and forms mucous and oxalic acids. 5. Ulmm. Does not crystallize. Taste insipid. Soluble in water, and does not form mucilage. Pre-cipitated by nitric and oxymuriatic acids in the state

cipitated by nitric and oxymuriatic acids in the state of resin. Insoluble in alkohol.

6. Inulin A white powder. Insoluble in cold water. Soluble in boiling water; but precipitates unaltered after the solution cools. Insoluble in alkohol Soluble in nitric acid, and yields oxalic acid.

7. Starch. A white powder. Taste insipid. Insoluble in cold water. Soluble in hot water; opaque and alutinous. Precipitated by an infusion of nutralls; precipitate redissolved by a heat of 1209. Insoluble in alkohol. Soluble in dilute nitric acid, and precipitated by alkohol. With nitric acid yields oxalic acid and a wayy matter.

and a waxy matter and a waxy mater.

8. Indigo. A blue powder. Taste insipid. Insoluble in water, alkohol, ather. Soluble in sulphuric acid. Soluble in nuric acid, and converted into bitter

9. Gluten. Partially soluble in water; precipitated by infusion of nutgalls and oxygenized muriatic acid. Soluble in acetic acid and muriatic acid. Insoluble in alkohol By fermentation becomes viscid and adhesive, and then assumes the properties of cheese. nitric acid, and yields oxalic acid. Soluble in

10. Albumen. Soluble in cold water. Coagulated by heat, and becomes insoluble. Insoluble in alkohol. Precipitated by infusion of nutgalls. Soluble in nitric

acid. Soon putrefies. 11. Fibrin. Tastel Tasteless. Insoluble in water and alkohol. Soluble in diluted alkalies, and in nitric acid.

Soon putrefies.

12. Gelatin. Insipid. Soluble in water. Does not coagulate when heated. Precipitated by infusion of

13. Bitter principle. Colour yellow or brown. Taste bitter. Equally soluble in water and alkohol. Soluble in nitric acid. Precipitated by nitrate of silver.

14. Extractive. Soluble in water and alkohol. In-cluble in aether. Precipitated by oxygenized muriation soluble in æther. Precipitated by oxygenized muriatic acid, muriate of tin, and muriate of alumina; but not

by gelatin. Dyes fawn colour.

15. Tannin. Taste astringent. Soluble in water and in alkohol of 0.810. Precipitated by gelatin, mu-

and in alkohol of 0.810. Precipitated by gelatin, muriate of alumina, and muriate of tim.

16. Fixed oils. No smell. Insoluble in water and alkohol. Forms-soaps with afkalies. Coagulated by earthy and metallic salts.

17. Wax. Insoluble in water. Soluble in alkohol, ather, and oils. Forms soap with alkalies. Fusible.

18. Volatile oil. Strong smell. Insoluble in water. Soluble in alkohol. Liquid. Volatile. Oily. By prints only independent.

nitric acid inflamed, and converted into resinous substances.

• 19: Camphor. Strong odour. Crystallizes. Very little soluble in water. Soluble in alkohol, oils, acids. Insoluble in alkalies. Burns with a clear flame, and volatilizes before melting.

20. Birdlime. Viscid. Taste insipid. Insoluble in

20. Birdiame. Viscid. Taste insignd. Insoluble in water. Partially soluble in alkohol. Very soluble in ether. Solution green.
21. Resins. Solid. Melt when heated. Insoluble in water. Soluble in alkohol, arther, and alkalies. Soluble in acetic acid. By nitric acid converted into artificial tannin.

Possesses the characters of resins 22. Guaiacum. but dissolves in nitric acid, and yields oxalic acid and

no tannin.

- Possess the characters of the resins. 23. Balsams. but have a strong smell; when heated, benzoic acid sublimes. It sublimes also when they are dissolved in sulphuric acid. By nitric acid converted into artificial tannin.
- 24. Caoutchouc. Very elastic. Insoluble in water and alkohol. When steeped in after, reduced to a pulp, which adheres to every thing. Fusible and remains liquid. Very combustible.

25. Gum resins. Form milky solutions with water, transparent with alkohol. Soluble in alkalies. nitric acid converted into tannin. Strong smell.

tle, opaque, infusible

26. Cotton. Composed of fibres. Tasteless. Very combustible. Insoluble in water, alkohol, and æther. Soluble in alkalies. Yields oxalic acid to nitric acid. 27. Suber. Burns bright, and swells. Converted by nitric acid into suberic acid and wax. Partially soluble

in water and alkohol.

28. Wood. Composed of fibres. Tasteless. luble in water and alkohol. Soluble in weak alkaline lixivium. Precipitated by acids. Leaves much charcoal when distilled in a red heat. Soluble in nitric 'acid, and yields oxalic acid.

To the preceding we may add, emetin, fungin, hematin, nicotin, pellenin; the new vegetable alkalies, aconita, atropia, brucia, cicuta, datura, delphia, hyos ciama, morphia, picrotoxia, strychnia, veratria; and the various vegetable acids.

VELO f mosses: See Caluptra.
VELO f mosses: See Caluptra.
VELN. Vena. A long membranous canal, which continually becomes wider, does not pulsate, and returns the blood from the arteries to the heart. All veins originate from the extremities of arteries only, by anastomosis, and terminate in the auricles of the heart; c. g. the vene cave in the right, and the pulanenary vei s in the left auricle. They are composed,

Forms a ductile elastic mass with water. | like arteries, of three tunics, or coats, which are much more slender than in the arteries, and are supplied internally with semilunar membranes, or folds, called

tives. Their use is to return the blood to the heart.

The blood is returned from every part of the body, except the lungs, into the right auricle, from three sources

The vena cava superior, which brings it from the

head, neck, thorax, and superior extremities.

2. The vena cava inferior, from the abdomen and inferior extremities.

3. The coronary vein receives it from the coronary arteries of the heart.

1. The vena cava superior. This vein terminates in the superior part of the right auricle, into which it in the superior part of the right auricle, into which it evacuates the blood, from the right and left sub-clavian vein, and the vena axygos. The right and left sub-clavian veins receive the blood from the head and upper extremittes, in the following manner. The veins of the fingers, called digitals, receive the blood from the digital arteries, and empty it into,

The cephalic of the thumb, which runs on the back

of the hand along the thumb, and evacuates itself into

the external radial.

The salvatella, which runs along the little finger, unites with the former, and empties its blood into the internal and external cubital veins. At the bend of the forearm are three veins, called the great cephalic, the basilic, and the median.

The great cephalic runs along the superior part of the forearm, and receives the blood from the external radial.

The basilic ascends on the under side, and receives the blood from the external and internal cubital veins, and some branches which accompany the brachial artery, called venæ satellites

The median is situated in the middle of the forearm, and arises from the union of several branches. These three veins all unite above the bend of the arm, and

form,

The brachial vein, which receives all their blood. and is continued into the axilla, where it is called,
The axillary vein. This receives also the blood

from the scapula, and superior and inferior parts of the chest, by the superior and inferior thoracic vein,

the chest, by the superior and injerior increate very, the vena muscularis, and the scapularis.

The axillary vein then passes under the clavicle, where it is called the subclavian, which unites with the external and internal jugular veins, and the vertebral vein which brings the blood from the vertebal sinuses; it receives also the blood from the mediastinal, pericardiac, diaphragmatic, thymic, internal its fellow, to form the vena cava superior, or, as it is

sometimes called, vena cara descenders.

The blood from the external and internal parts of the head and face is returned in the following manner into the external and internal jugulars, which termi

nate in the subclavians.

The frontal, angular, temporal, auricular, sublingual, and occipital veins, receive the blood from the gual, and occipital veins, receive the blood from the parts after which they are named; these all converge to each side of the neck, and form a trunk, called the external jugular vein.

The blood from the brain, cerebellum, medulla oblon gata, and membranes of these parts, is received into the lateral sinuses, or vein of the dura mater, one of which empties its blood through the foramen lacerum in basi cranii on each side into the internal jugular, which descends in the neck by the carotid arteries, receives the blood from the thyroideal and internal maxillary veins, and empties itself into the subclavians within

The vena azygos receives the blood from the bronchial, superior a sophage al, vertebral, and intercostal

cours, and empties it into the superior cava.

2. Vena cava inferior. The vena cava inferior is the trunk of all the abdominal veins and those of the lower extremities, from which parts the blood is returned in the following manner. The veins of the toes, called the digital veins, receive the blood from the digital arteries, and form on the back of the foot three branches, one on the great toe, called the cephalic, another which runs along the little toe, called the vena supliena, and a third on the back of the foot, vene dorsalis pedis; and those on the sole of the foot evacuate themselves into the plantar verns.

The three veins on the upper part of the foot coming

together above the ankle, form the anterior tibial; and the plantar veins with a branch from the calf of the the plantar veins with a braining from the carrier tibial; a branch also ascends in the direction of the fibula, a branch also ascends in the direction of the fibula, called the peroncal vein. These three branches unite before the ham, into one branch the subpoplying even, which ascends through the ham, carrying all the blood from the foot: it then proceeds upon the anterior part of the thigh, where it is termed the crucal or femoral vein, receives several muscular branches, and passes under Poupart's ligament into the cavity of the pelvis, where it is called the external iliac.

The arteries which are distributed about the pelvis evacuate their blood into the external homorrhoidal veins, the hypogastric veins, the internal pudendal, the vena magna ipsius penis, and obturatory veins, all of which unite in the pelvis, and form the internal iliac

The external iliac vein receives the blood from the external pudendal veins, and then unites with the internal iliac at the last vertebra of the loins; after which it forms with its fellow the vena cava inferior or ascendens, which ascends on the right side of the spine, receiving the blood from the swend, lumbur, emulgent, right spermatic veins, and the rena cava having arrived at the duaphragm, it passes through the right foramen, and enters the right arricle of the heart, into which it evacuates all the

blood from the abdominal viscera and lower extremities.

Vena cava hepatica. This vein ramifies in the substance of the liver, and brings the blood into the vena cava inferior from the branches of the vena porta, a great vein which carries the blood from the abdominal viscera into the substance of the liver. The trunk of this vein, about the fissure of the liver in which it is this vein, about the assure of the liver in which it is situated, is divided into the hepatic and abdominal portions. The addominal portion is composed of the splenic, meseraic, and internal homorrhoidal veins. These three venous branches carry all the blood from the stomach, spleen, paucreas, omentum, mesentery, gall-bladder, and the small and large intestines, into the sinus of the vena portae enters the substance of the liver, divides into innumerable ramifications, which secrete the bile, and the superfluous blood passes into corres ponding branches of the vena cava hepatica

ponding branches of the vena cara neparent.

The action of the veins. Veins do not pulsate; the blood which they receive from the arteries flows through them very slowly, and is conveyed to the right auricle of the heart, by the contractility of their coats, the pressure of the blood from the arteries, called the vis a tergo, the contraction of the muscles, and respiration; and it is prevented from going backward in the vein by the valves, of which there are a great number. Veinless leaf. See Avenus.

Vening leaf. See Venaus.

Vening leaf. See Venaus.

Vening leaf. See Venaus.

Venue leaf. See Venaus.

Venue leaf. See Venaus.

Venue and preventing the bite of venomous serpents. VELAMENTUM BOMBYCINUM. The interior soft membrane of the intestines.

VE'LUM. A veil. VELUM PENDULUM PALATI. Velum; Velum palati-num. The soft palate. The soft part of the palate, which forms two arches, affixed laterally to the tongue and pharynx.

VELLY PUPILLE. See Membrana pupillaris.
VENA. (From vento, to come: because the blood

comes through it.) A vein. See Vein.

Vena azygos. See Azygos vena.

Vena medinensis. See Medinensis vena.

VENA REDITER. (Vena porta, a portando; because through it things are carried.) Vena portarum. The great vein, situated at the entrance of the liver, which receives the blood from the abdominal viscera, and carries it into the substance of the liver. It is distinguished into the hepatic and abdominal portion; the former is ramified through the substance of the liver. and carries the blood destined for the formation of the bile, which is returned by branches to the trunk of the vena cava; the latter is composed of three branches viz. the splenic, mesenteric, and internal hæmorrhoidal veins. See Vein.

VENE LACTEE. The lacteal absorbents were so called. See Lacteals.
VENERAL. (Venerous; from Venus, because it belongs to acts of venery.) Of or belonging to the sexual intercourse.

Vencreal disease. See Gonorrhaa and Syphiles. VENOSUS. Veiny. Applied by botanists to a leaf high has the vessels, by which it is nourished, branched, subdivided, and more or less prominent, forming a network over either or both its surfaces; as Cratagus, Pyrolus terminalis, &c. VE'NTER. A term formerly applied to the larger

circumscribed cavities of the body, as the abdomen and

VENTRICLE. (Ventriculus : from venter.) term given by anatomists to the cavities of the brain and heart. See (\*\*ercbrum\*, and \*Heart\*.

Ventri'culus pulmonaris. The right ventricle of

the heart.

VENTRICULUS SUCCENTURIATUS. That portion of the duodenum, which is surrounded by the peritoneum, is sometimes so large as to resemble a second stomach,

and is so called by some writers.

VENTRILOQUISM. Gastriloquism. Engastrimythus. The formation of the voice within the mouth in such a way, as to imitate other voices than that which is natural to the person, and so as not to be seen to move the lips. Nothing is more easy to man than to imitate the different sounds he hears: this in fact he performs in many circumscances. Many persons imitate perfectly the voice and pronunciation of others; actors, for example. Hunters imitate the different cries of the game, and thus succeed in decoying it into

This faculty of imitating the different sounds, has given rise to the art called ventriloquism; but the persons who exercise this art, have no organization different from that of other men; they require only to have the organs of voice and speech very perfect, in order that they may readily produce the necessary

The basis of this art is easily understood. We have found by experience, instinctively, that sounds are changed by many causes: for example, that they become feeble, less distinct, and that their expression changes, according as they are more distant from us: a man who is at the bottom of a well wishes to speak to persons who are at the top; but his voice will not reach their ears until it has received certain modifications, which depend upon the distance and the form of the tube through which it passes

If a person remark these modifications with care, and endeavour to imitate them, he will produce acoustic illusions, which would be equally deceiving to the ear as the observation of objects through a magnifying glass is to the eye. The error will be complete if he employ those deceptions which are necessary to dis-

tract the attention.

These illusions will be numerous in proportion to These indisions will be infinitely at proportion to the talents of the performer; but we must not imagine that a veatriloquist produces vocal sounds, and articulates differently from other people. His voice is formed in the ordinary manner; only he is capable of modifying, according to his pleasure, the volume, the expressions are considered to the volume of sion, &c. of it; and with regard to the words that he pronounces without moving his lips, he takes care to choose those into which no labial consonants enter, otherwise he would be obliged to move his lips. art is, in certain respects, for the ear what painting is for the eye. VE'NUS.

Copper was formerly so called by the

VERATRIA. Veratrine. A new vegetable alkali, discovered lately by Pelletier and Caventou, in the veratrum sabntilla, or cevadilla, the veratrum album, or white hellebore, and the colchicum autumnale, or

The seeds of cevadilla, after being freed from an The seeds of cevadilla, after being freed from an metions and acrid matter by ather, were digested in boiling alkohol. As this infusion cooled, a little wax was deposited; and the liquid being evaporated to an extract, redissolved in water, and again concentrated by evaporation, parted with its colouring matter. Acetate of lead was now poured into the solution, and an abundant yellow precipitate fell, leaving the fluid nearly colourless. The excess of lead was thrown down by sulphuretted hydrogen, and the filtered liquor being concentrated by evaporation, was treated with magnesia, and again filtered. The precipitate, boiled in alkohol, gave a solution, which, on evaporation, left a pulverulent matter, extremely bitter, and with decidedly alkaline characters. It was at first yellow, but

by solution in alkohol, and precipitation by water, was | four years old, is two grains; from hence to eight, obtained in a fine white powder.

The precipitate by the acetate of lead, gave, on exa-

mination, gallic acid; and hence it is concluded, that the new alkali existed in the seed as a gallate.

Veratria was found in the other plants above men-tioned. It is white, pulverulent, has no odour, but excites violent sneezing. It is very acrad, but not bitter. It produced violent vomiting in very small doses, and, according to some experiments, a few grains may cause death. It is very live esoluble in cold water. Boiling water dissolves about 1-1000m part, and becomes acrid to the taste. It is very soluble in alkohol, and rather

to the tase. If every constant manager, less soluble in action:
VERATRINE, See Veratria.
VERATRIM. 1. The name of a genus of plants in the Linnaan system. Class, Polygamia; Order, Moræcia.
2. The pharmacopæial name of white hellebore.

Sec Veratrum album.

VERATRUM ALBUM. Helleborus albus ; Eileborum album. Winte hellebore, or veratrum. Veratrumraceno supra-decomposito, corollos creetis, ci Lionaus.
This plant is a native of Ighy, Swizzerland, Austra, and Russia. Evroy part of the plant is extremely acid and poisonous. The dried root has no particular smell, but a durable, nauseous, and bitter taste, burning the mouth and fances; when powdered, and applied to issues, or uleers, it produces griping and purging; if smalled up the nose, it proves a violent sternaturery. Gesner made an intusion of hair an onace of this root Gesner made an falusion of haif an onacc of this feed with two onnees of water; of this he took two drachms, which produced great heat about the scapula and in the face and head, as well as the tongue and throat, followed by singulus, which continued till vormiting was excited. Bergins also experienced very distressing symptoms, upon tasting this infusion. The root, taken in large doses, discovers such acrimony, and operates by the stomach and rectum with such violence, that blood is usually discharged; it likewise acts very powerfully upon the nervous system, producing great anxiety, fremors, vertigo, syncope, aphonia, interru; ted respiration, sinking of the pulse, convulsions. spasing and death. Upon opening those who have deed of the effects of this poison, the stomach discovered marks of inflammation, with corosions of its internal coat. The ancients exhibited this active medicine in maniacal cases, and it is said with success. The experience of Greding is semewhat similar: out of twenty eight cases, in which he exhibited the bark of the root collected in the spring, five were cured. In almost every case that he relates, the medicine acted more or less upon all the excretions; vomiting and punging were very generally produced, and the matter thrown off the stomach was constantly mixed with bile; a florid reduces frequently appeared on the face, and various cutaneous efflorescences upon the body and, in some, pleuritic symptoms, with fever, super-vened, so as to require bleeding; nor were the more alarming affections of spasms and convulsions unfrequent. Critical evacuations were also very evident; many sweating profusely, in some the urine was considerably increased, in others the saliva and mucous discharges: the uterine obstructions, of long duration, were often removed by its use. Veraurum has likewise been found useful in epilepsy, and other convulsive complaints; but the diseases in which its efficacy seems least equivocal, are those of the skin, as itch and different prurient eruptions, herpes, morbus pediculosus, lepra, scrofula. &c.: and in many of these it has been successfully employed both internally and externally. As a powerful stimulant and irritating medi-cine, its use has been resorted to in desperale cases only, and even then it ought first to be exhibited in very small doses, as a grain, and in a diluted state, and to be gradually increased, according to the effects, which are generally of an alarming nature. The active ingredient of this plant is an alkali lately detected. See Veratria.
VERATRUM NIGRUM. See Helleborus niger.

Vereatrem story. See Hellehorus auger. Vereatrem serballe. Cecodilla hispanorum: Seendella; Subadilla; Hordeum causticum; Caris interfector. Indian caustic bailey. The plant whose seeds are thus denominated, is a species of veratrum; they are powerfully caustic, and are administered with very great success as a vermifuge. They are also diuretic and emetic. The dose to a child, from two to of copper, 27 of black oxide of copper, and 30 of water:

five grains; from eight to twelve, ten grains. A new atkali has been detected in the seeds of this plant. See Veratria.

VERATRUM VIRIDE. See American hellebore. VERBATRUM VIRIDE. See Simerican heaterore. Asy VERBA SCUM. (Quasi barbascum, from its hairy coat.) 1. The mane of a genus of plants in the Lin-maan system. Class, Pentandria; Order, Mono-

gymia.

2. The pharmacopæial name of the yellow and black

wullein. Verbascum nigrum. The systematic name of the black mullein. Candela regia; Tapsus barbatus; Candelaria; Lanaria. The Verbascum nigrum, and Canacacacac, Panaria. In Peronacain mgram, and Ferbuscum thapsus appear to be ordered indifferently by this name in the pharmacopeias. The flowers, leaves, and roots, are used occasionally as mild adstringents. The leaves possess a roughish taste, and promise to be of service in diarrheas and other debilipromise to be of service in a service translated states of the intestines.

The systematic name of

VERBASCUM THAPSIIS. The systematic name of the yellow mullein. See Ferbascum magram. VERBASCUM THAPSIIS. The aname of distinction for all herbs used in sacred rites.) Vervain. 1. The name of a genus of plants in the Linnean system. Class, Incending a Order, Monogymia.

2. The pharmacopoial name of the vervain. See Vertains.

Verbena officinalis

VERBENA FIFMINA. The hedge mustard is sometimes so called. See Erysimum alliaria.

VERGENA OFFICINALIS. The systematic name of Vergena, Officinalis. The systematic name of Vergain. This plant is destitute of odour, and to the taste manifests but a slight degree of bitterness and adtaste manifests out a signifugace of outcrees and assingerey. In former times the verbena seems to have been held sacred, and was employed in celebrating the sterificial rifes; and with a view to this, more than the natural power of the plant, it was worn suspended about the neck as an amulet. This practice, thus founded on superstition, was, however, in process of time, adopted in medicine; and, therefore, to obtain its virtues more effectually, the vervain was directed to virtues more enectually, the vervain was directed to be bruised before it was appended to the neck; and of its good effects thus used for inveterate headaches, Forestus relates a remarkable instance. In still later times it has been employed in the way of cataplasm, by which we are told the most severe and obstinate cases of cephalalgia have been cured, for which we have the authorities of Etmuller, Hartman, and more have the authorities of Etunuller, Hartman, and more especially De Haën. Notwithstanding these testiments in favour of the vervain, it has deservedly talten into drane in Bitiain; nor has the pamphlet of Mr. Morley, written professedly to recommend its use in servicious affections, and the criter of restoring its medical character. This gentleman directs the root of vervain to be tied with a yard of white satin riband round the neck, where it is to remain till the patient recovers. He also has recourse to intusions and ointerests prepared from the leaves of the plant and

the material medica. VERDIGERS. Enrogo. An impure subacetate of copper. It is prepared by stratifying copper plates with the husks of grapes, after the expression of their juice, and when they have been kept for some time imperfectly exposed to the air, in an apartment warm but not too dry, so as to pass to a state of fermentation, whence a quantity of vinegar is formed. The copper plates are placed in pas in strata, with the husks thus prepared, which are covered. At the end of twelve, fifteen, or twenty days, these are opened: the plates have an efflorescence on their surface of a green colour and stiky lustre: they are repeatedly moistened with water; and at length a crust of verdigis is formed,

ments prepared from the leaves of the plant, and or casionally calls in aid the most active medicines of

the materia medica.

water; and at length a crust of verdigits is formed, which is scraped off by a knife, is put into bags, and dried by exposure of these to the air and sun. It is of a green colour, with a slight tint of blue.

In this preparation the copper is oxidized, probably by the atmospheric air, aided by the affinity of the acetic acid; and a portion of this acid remains in combination with the oxide, not sufficient, however, to produce its saturation. When acted on by water, the acid, with such a portion of oxide as it can require acid, with such a portion of oxide as it can retain in solution, are dissolved, and the remaining oxide is left undissolved. From this analysis of it by the action of water, Proper incered that it consists of 43 of acetate

th s water not being accidental, but existing in it in | state of the fluids prevails, indicated by prurient erup intimate combination.

Verdigris is used as a pigment in some of the processes of dying, and in surgery it is externally applied as a mild detergent in cleansing foul ulcers, or other open wounds. On account of its virulent properties, it ought not to be used as a medicine without professional advice; and in case any portion of this poison be accidentally swallowed, emetics should be first given, and afterward cold water, gently alkalized,

ought to be drunk in abundance

Ought to be drunk in abundance.

VERHEYEN, PHILLIP, was born in 1648 at Vesbronck, in the county of Waes, and assumed the clerical profession; but an inflammation of his leg having rendered amputation necessary, he was determined afterward to study medicine. He accordingly naving rendered amphatation flecessary, he was determined afterward to study medicine. He accordingly graduated and settled at Louvain, where he was nominated professor of anatomy in 1689, and four years after of surgery also. His application was indefatigable, so that he attained distinguished eminence, and attached to his school a great number of disciples His celebrity was principally the result of a work, entitled, "Anatomia Corporis Humani," which passed through many editions and improvements, and superseded the compendium of Bartholine. He published also a Compendium of Medicine, a Treatise on Fevers, &cc.

VERJUICE. An acid liquor prepared from grapes or apples, that are unfit to be converted into wine or cider. It is also made from crabs. It is principally used in sauces and ragouts, though it sometimes forms an ingredient in medicinal compounds.

an ingredient in medicinal compounds. VERMICULA'RIS. (From vermis, a worm.) Vermicular: shaped like, or having the properties of, a worm. Applied very generally in natural history. VERMIFORM. (Vermiformis; from vermis, a worm, and forma, resemblance.) Worm-like.

VERMIFORM PROCESS. Protuberantia vermiformis. The substance which unites the two hemispheres of the cerebellum like a ring, forming a process. It is called vermiform, from its resemblance to the contor-

VERMIFUGE. (Vermifugus; from vermis, a worm, and fugo, to drive away.) See Anthelmintic. VERMILION. See Cinnabar. VERMIS. A worm. See Worm.
VERMIS MORDICANS. Vermis repens. A species of

herpetic eruption on the skin.

Vermis terresers. See Earth-worm.
VERNATIO. (From ver, the spring.) This term is applied, like foliatus, to the manner in which the leaves are folded or wrapped up, and expanded in the

spring. See Geem.

VERNEY, GUICHARD-JOSEPH DU, was the son of a physician at Tours, and born in 1648. After studying at Avignon, he removed, at nineteen, to Paris, where he acquired high reputation as an anatomical lecturer. He was admitted, nine years after, into the Academy of Sciences, whose memoirs he enriched by his re-searches in natural history. In 1679 he was nominated professor of anatomy at the Royal Gardens. His work on the Organ of Hearing appeared about four years after, and was translated into various languages. He continued the pursuit of natural history with great ardour, and even to the detriment of his health, yet he was enabled, by a good constitution, to reach his eighty-second year. He bequeathed his valuable anatomical preparations to the academy. After his death, a treatise on the Diseases of the Bones was published from his manuscripts; and subsequently various other papers, under the title of "Œuvres Anatomique."

VERO'NICA. 1. The name of a genus of plants in the Linnman system. Class, Diandria; Order, Mono-

gynia. Speedwell.

2. The pharmacopæial name of the male veronica. See Veronica officinalis.

VERONICA BECCABUNGA. Beccahunga; Anagallis equatica: Laver germanicum; Veronica aquatica, Cepaa. Water-pimpernel and brooklime. The plant Cepea. Water-pimpernel and brookline. The plant which bears these names, is the Feronica—racemis lateralibus, folis oratis plants, caule repente, of Limneus. It was formerly considered of much use in several diseases, and was applied externally to wounds and ulcers; but if it have any peculiar efficacy, it is to be derived from its antiscorbutic virtue. As a mild

refrigerant juice, it is preferred where an acrimonious

tions upon the skin, or in what has been called the hot scurry. To derive much advantage from it, the juice ought to be taken in large quantities, or the fresh plant eaten as food.

VERONICA OFFICINALIS. The systematic name of VERONICA OFFICINALIS. The systematic faine of the plant which is called in the pharmacopaias Veronica mas; Thea germanica; Betonica pauli; Chamadrys spuria. Veronica—spicis lateralibus pedun meanys sparra. Veronica—spees circulatus pean culatus; folius oppositus; caule procumbente, of Linneaus, is not unfrequent on dry barren grounds and heath, as that of Hampstead, flowering in June and July. This plant was formerly used as a pectoral against coughs and asthmatic affections, but it is now justly forgotten.

[Veronica virginica. This is a tall native plant, differing from the rest of its family in habit, and considered by Nuttall and some other botanists as a separate genus. Its root is very bitter, and somewhat nau-

rate genus. Its root is very bitter, and somewhat nauseous. It sometimes operates as a cathartic, in the dose of a scruple; but in several trials which I have made with it, I have found it uncertain in this respect. Big. Mat. Med. A.]

VERRUCA. I. A wart, or thickening and induration of the cuticle which is raised up in different forms, mostly of the size of a lentil, or flat pea.

2. In loauw, amplied to a small round prominence. 2. In botany, applied to a small round prominence

on the inferior surface of the funguses.

VERRUCA'RIA. (From Verruca, a wart: because it was supposed to destroy warts.) The Heliotropium

very support to the story values of the Protect optime european, or turnsole.

VERRUCOSUS. Warty: applied to such appearances on vegetables, as on the stem of the Euonymus verrucasus; and to the appearance on the gourd-seed

vessel, as in the Cucurbuta verrucusa. See Pepo.
VE'RTEBRA. (Vertebra, e, f.; from verto, to
turn.) The spine is a long bony column, which exturn.) The spine is a long bony column, which extends from the head to the lower part of the trunk, and is composed of irregular bones, which are called vertebræ. The spine may be considered as being composed

of two irregular pyramids, which are united to each other in that part of the loins where the last of the

lumbar vertebræ is united to the os sacrum.

The vertebra, which form the upper and longest pyramid, are called true vertebra; and those which compose the lower pyramid, or the os sacrum and coccyx, are termed false vertebra, because they do not in every thing resemble the others, and particularly because, in the adult state, they become perfectly immoveable, while the upper ones continue to be capable of motion. For it is most the known of the saine that of motion. For it is upon the bones of the spine that the body turns, and their name has its derivation from the Latin verb verto, to turn, as observed above.

The true vertebre, from their situations with respect

to the neck, back, and loins, are divided into three classes, of cervical, dorsal, and lumbar vertebræ. We will first consider the general structure of all these, and then separately describe their different classes.

In each of the vertebra, as in other bones, we may remark the body of the bone, its process and cavities. The body may be compared to part of a cylinder cut off transversely; convex before, and concave behind, where it makes part of the cavity of the spine.

Each vertebra has commonly seven processes. The first of these is the *spinous* process, which is placed at the back part of the vertebra, and gives the name of spine to the whole of this bony canal. Two others are called transverse processes, from their situation with called transverse processes, from their situation with respect to the spine, and are placed on each side of the spinous process. The four others, which are called oblique processes, are much smaller than the other three. There are two of these on the upper and two on the lower part of each vertebra, rising from near the basis of the transverse processes. They are sometimes called articular processes, because they are articulated with each other; that is, the two superior processes of one vertebra are articulated with the two inferior processes of the vertebra above it; and they are called oblique processes, from their situation with respect to the processes with which they are articulated. oblique processes are articulated to each other by a species of ginglymus, and each process is covered at its articulation with cartilage.

There is in every vertebra, between its body and apophyses, a foramen, large enough to admit a finger. These foramina correspond with each other through all

side of every vertebra, between the oblique processes and the body of the vertebra. Two of these notches are at the upper, and two at the lower part of the bone. Each of the inferior notches, meeting with one of the superior notches of the vertebra below it, forms a foramen; while the superior notches do the same with the inferior notches of the vertebra above it. These four foramina form passages for blood-vessels, and for the

herves that pass out of the spine.

The vertebre are united together by means of a substance, compressible like cork, which forms a kind of partition between the several vertebre. This intervertebral substance seems, in the tetus, to approach nearly to the nature of ligaments; in the adult it has a great resemblance to cartilage. When cut horizontally, it appears to consist of concentrical curved fibres: externally, it is firmest and hardest; internally, it becomes thinner and softer, till at length, in the centre, we find it in the form of a mucous substance, which facilitates the motion of the spine.

the motion of the spine.

Genga, an Italian anatomist, long ago observed, that
the change which takes place in these intervertebral
cartilages, (as they are usually called.) in advanced
life, occasions the decrease in stature, and the stooping
forwards, which are usually to be observed in old peo-The cartilages then become shrivelled, and conple. The cartilages then become shrivelled, and consequently loss, integreat measure, their elasticity. But, besides this gradual effect of old age, these cartilages are subject to a temporary diminution, from the weight of the body in an erect posture, so that people who have been long standing, or who have carried a considerable weight, are found to be shorter than when they have been long in bed. Hence we are taller in the morning than at night. This fact, though seemingly obvious, was not ascertained till of late years. The difference in such cases depends on the age and size of the subject; in tall, young besole, it will be nearly an the subject; in tall, young people, it will be nearly an inch; but in older, or shorter persons, it will be less considerable.

Besides the connexion of the several vertebre, by means of these cartilages, there are likewise many strong ligaments, which unite the bones of the spine to each other. Some of these ligaments are external, and others internal. Among the external ligaments, we observe one which is common to all the vertebra, extending, in a longitudinal direction, from the forepart of the body or the second vertebra of the neck, over all the other vertebræ, and becoming broader as it descends towards the os sacrum, where it becomes thinner, and gradually disappears. This external longitudinal ligament, if we may so call it, is strengthened by other shorter ligamentous fibres, which pass from one vertebra to another, throughout the whole spine. The internal ligament, the fibres of which, like the external one, are spread in a longitudinal direction, is extended one, are spread in a longitudinal direction, is extended over the back part of the bodies of the vertebræ, where they help to form the cavity of the spine, and reaches from the foramen of the occipital bone to the os

We may venture to remark, that all the vertebra diminish in density and firmness of texture, in proportion as they increase in size, so that the lower bræ, though larger, are not so heavy in proportion as those above them. In consequence of this mode of structure, the size of the vertebræ is increased without adding to their weight; and this is an object of no little importance in a part of the body, which, besides flexibility and suppleness, seems to require lightness as one of its essential properties

of its essential properties.

In the fectus, at the ordinary time of birth, each vertebra is found to be composed of three bony pieces, connected by cartilages which afterward ossify. One of these pieces is the body of the bone; the other two are the posterior and lateral portions, which form the foramen for the medula spinalis. The oblique processes are at that time complete, and the transverse processes beginning to be formed, but the spinous processes are totally wanting.

totally wanting

The cervical vertebræ are seven in number; their bodies are smaller and of a firmer texture than the other bones of the spine. The transverse processes of these vertebre are short, and forked for the lodgment of muscles; and, at the bottom of each of these processes, there is a foramen, for the passage of the cer-

the vertebræ, and form a long bony conduit, for the lodgment of the spinal marrow.

Besides this great hole, there are four notches on each side of every vertebra, between the oblique processes allows a more convenient insertion to the muscles of allows a more convenient insertion to the muscles of the neck. Their oblique processes are more deserving of that name than either those of the dorsal or lumbar vertebræ. The uppermost of these processes are slightly concave, and the lowermost slightly convex. This may suffice for a general description of these vertebræ; but the first, second, and seventh deserve to be tebre; but the first, second, and seventh deserve to be spoken of more particularly. The first, which is called Atlas, from its supporting the head, differs from all the other vertebra of the spine. It forms a kind of bony ring, which may be divided into its anterior and posterior arches, and its lateral portions. Of these, the anterior arch is the smallest and flattest; at the middle of its convex forepart we observe a small tubercle which is here what the body is in the other vertebra. To this subsecte a ligament is attached, which helps to tubercle a ligament is attached, which helps to strengthen the articulation of the spine with the os occipitis. The back part of this anterior portion is conoccipitis. The back part of this anterior portion is con-cave, and covered with cartilage, where it receives the adontoid process of the second vertebra. The posterior portion of the vertebra, or, more properly speaking, the posterior arch, is larger than the anterior one. Instead of a spinous process, we observe a rising, or tubercle, larger than that which we have just now described, on the forepart of the bone. The lateral portions of the westebra project, so, as to form what are called the vertebra project, so as to form what are called the transverse processes, one on each side, which are longer and larger than the transverse processes of the other vertebrae. They terminate in a roundish tubercle, the end of which has a slight bend downwards. Like the other transverse processes, they are periorated at their basis, for the passage of the cervical artery. But, besides these transverse processes, we observe, both on the superior and interior surface of these lateral portions of the first vertebra, an articulating surface, covered with cartilage, answering to the oblique processes in the other vertebræ. The uppermost of these are oblong, and slightly concave, and their external edges rise somewhat higher than their internal brims. They receive the condyloid processes of the os occipitis, with which they are articulated by a species of gingly mus. The lowermost articulating surfaces, or the infeinus. The lowermost articulating surfaces, of the inferior oblique processes, as they are called, are large, concave, and circular, and are formed for receiving the superior oblique processes of the second vertebra; so that the atlas differs from the rest of the cervical verte both above and below. In the festive with which it is articulated both above and below. In the fœtus we find this vertebra composed of five, instead of three pieces, as in the other vertebræ. One of these is the anterior arch; the other four are the posterior arch and the sides, each of the latter being composed of two pieces.

the latter being composed of two pieces. The trans-verse process, on each side, remains long in a state of epiphysis with respect to the rest of the hone. The second vertebra is called dentatus, from the process on the upper part of its body, which has been, though perhaps improperly, compared to a tooth. This process, which is the most remarkable part of the ver-tebra, is of a cylindrical shape, slightly flattened, how-ever, hehind and before. Anteriorly, it has a convex, smooth, articulating surface, where it is received by the atlan, as we observed in our description of that verthe atlas, as we observed in our description of that ver-tebra. It is by means of this articulation that the rota-tory motion of the head is performed; the articulation of the occipitis with the superior oblique processes of the first vertebra, allowing only a certain degree of motion backwards and forwards, so that when we turn the face either to the right or left, the atlas moves upon this adoutoid process of the second vertebra. But as the face cannot turn a quarter of a circle, that is, to the shoulder, upon this vertebra alone, without being liable to injure the medulla spinalis, we find that all the cervical vertebræ concur in this rotary motion, when it is in any considerable degree; and indeed we see many strong ligamentous fibres arising from the sides of the odontoid process, and passing over the first vertebra, to ognitud process, and passing over the irist vertears, to the os occipitis, which not only strengthen the articu-lation of these bones with each other, but serve to regu-late and limit their motion. It is on this account that the name of moderators has sometimes been given to these figaments. The transverse processes of the verat their extremities. Its spinous process is short and thick. Its superior oblique processes are slightly con

called vertebra prominens.

The dorsal vertebra, which are twelve in number, are of a middle size, between the cervical and lumbar vertebræ; the upper ones gradually losing their resemblance to those of the neck, and the lower ones coming nearer to those of the loins. The bodies of these vertebras is the second of the loins. tebræ are more flattened at their sides, more convex before, and more concave behind, than the other bones of the spine. Their upper and lower surfaces are hori-At their sides we observe two depressions, zontal. one at their upper, and the other at their lower edge, which, united with similar depressions in the vertebræ above and below, form articulating surfaces, covered with cartilage, in which the heads of the ribs are received. These depressions, however, are not exactly ceived. These depressions, however, are not exactly alike in all the dorsal vertebra; for we find the head of the first rib articulated solety with the first of these vertebra; which has therefore the whole of the superior articulating surface within itself, independent of the vertebra above it. We may likewise observe a similarity in this respect in the eleventh and twelfth of the rarry in this respect in the eleventh and twelfith ribs are articulated separately. Their spinous processes are long, flattened at the sides, divided at their upper and back part into two surfaces by a middle ridge, which is received by a small groove in the inner part of the spinous process immediately above it, and connected to it by a ligament. These spinous processes are terminated by a kind of round tubercle, which slopes considerably downwards, except in the three lowermost vertebre, where they are shorter and more erect. Their transverse processes are of considerable length and thickness, and are turned obliquely backwards. Anteriorly, they have an articulating surface, for receiving the tuberosity of the ribs, except in the eleventh and twelfth of the dorsal vertebræ to which the ribs are articulated by their heads only. In the last of these vertebræ the transverse processes are very short and thick, because otherwise they would be apt to strike against the lowermost ribs, when we bend the body to either side.

body to either suc.

The humbar vertebra, the lowest of the true vertebra, are five in number. They are larger than the dorsal vertebra. Their bodies are extremely prominent, and nearly of a circular form at their forepart; posteriorly they are concave. Their intermediate caritilages are of considerable thickness, especially anteri-orly, by which means the curvature of the spine for-wards, towards the abdomen, in this part, is greatly assisted. Their spinous processes are short and thick, assisted. Their spinous processes are short and thick, of considerable breadth, erect, and terminated by a of considerable breadin, erect, and terminated by a kind of tuberosity. Their oblique processes are of considerable thickness; the superior ones are concave, and turned inwards; the inferior ones convex, and turned outwards. Their transverse processes are thin and long, except in the first and last vertebra, where they are much shorter, that the lateral motions of the trunk night not be impeded. The inferior surface of all these vertebræ is slightly oblique, so that the fore-part of the body of each is somewhat thicker than its thind-part; but this is more particularly observable in the lowermost vertebra, which is connected with the os sacrum. Many anatomists describe the os sacrum and the os coccygis when considering the bones of the spine, while others regard them as belonging more properly to the pelvis. These bones the reader may con-It now remains to notice the uses of the spine We find the spinal marrow lodged in this bony canal, secure from external injury. It defends the thoracic and abdominal viscera, and forms a pillar which supports the head, and gives a general firmness to the

To give it a firm basis, we find the bodies of the vertebræ gradually increasing in breadth as they descend; and to fit it for a variety of motion, it is composed of a great number of joints, with an intermediate elastic aubstance, so that to great firmness there is added a perfect flexibility

We have already observed, that the lowermost and

vex, and somewhat larger than the articulating surfaces of the first vertebra, by which mechanism the motion of that bone upon this second vertebra is performed with greater safety. Its inferior oblique processes have nothing singular in their structure.

The seventh vertebra of the neck differs from the rest chiefly in having its spino us processe of a greater length, so that, upon this account, it has been sometimes called parking arguinges. are in general placed over each other in a slanting direction, so that a pointed instrument cannot easily get between them, excepting in the neck, where they are almost perpendicular, and leave a greater space between them. Hence, in some countries, it is usual to kill cattle by thrusting a pointed instrument between the occiput and the atlas, or between the atlas and the second vertebra. Besides these uses of the vertebra in defending the spinal marrow, and in articulating the several vertebra, as is the case with the oblique pro-cesses, we shall find that they all serve to form a greater surface for the lodgment of muscles, and to enable the latter to act more powerfully on the trunk, by affording them a lever of considerable length.

In the neck, we see the spine projecting somewhat forward, to support the head, which, without this assistance, would require a greater number of muscles. Through the whole length of the thorax it is carried in a curved direction backwards, and thus adds considerably to the cavity of the chest, and consequently affords more room to the lungs, heart, and large blood-vessels. nore room to me lungs, meart, and arge moon-vessels. In the loins, the spine again projects forwards, in a direction with the centre of gravity, by which means the body is easily kept in an erect posture; for otherwise we should be liable to fall forwards. But, at its infewe smould be made to tan forwards. Dut, at ms inferior part, it again recedes backwards, and helps to form a cavity called the pelvis, in which the urinary bladder, intestinum rectum, and other viscera, are placed.

In a part of the body that is composed of so great a

number of bones, and constructed for such a variety of motion, as the spine is, luxation is more to be expected than fracture; and this is very wisely guarded against in every direction, by the many processes that are to be found in each vertebra, and by the cartilages, liga-ments, and other means of connexion, which we have described as uniting them together.

VERTEBRAL. Vertebralis. Appertaining to the

vertebræ, or bones of the spine.

VERTERRAL ARTERY. Arteria vertebralis. A branch of the subclavian, proceeding through the vertebrae to within the cranium, where, with its fellow, it forms the basilary artery, the internal auditory, and the posterior artery of the dura mater.

VERTER. (Fertex, scis, m.; from verto.) The crown of the head. The os verticis is the parietal

bone.

VERTICALIA OSSA. See Parietal bones.
VERTICALIS. Vertical. Perpendicular. Applied to leaves which have both sides at right angles with the as in Lactuca scariola.

VERTICELLUS. A whorl. The name of a spe cies of inflorescence, in which the flowers surround the

stem in a sort of ring. From the insertion of the flowers, the vesture, and

distance of the verticellus, it is called,

1. Pedunculatus; as in Milissa officinalis.

2. Sessilis, in Mentha arrensis.

3. Dimidiatus, going half round; as in Ballota disticha. 4. Nudus, without floral or other leaf; as in Salvia

verticellata.

5. Bracteatus, in Ballota nigra. 6. Distans, in Salvia indica

7. Confertus, when crowded together.

7. Confertus, when crowded together.
Visiteries os. See Parnetal bones.
VERTIGO. Culdiness.
VERVAIN. See Verbena officinalis.
Versann, female. See Eryssmam alburia.
VESA LIUS, Andrew, was born at Brussels about
the year 1514. After pursaing his studies at different
universities, and serving for two years professionally
with the innegrial agray, besettled at Padua, and tamedy with the imperial army, he settled at Padua, and taught with the imperior army, messettled at Fadina, and taught anatomy with great appliance, which he subsequently continued at some other schools in Italy. In 1544, he became physician to Charles V., and resided chiefly at the imperial court. About twenty years after, in the midst of his professional career, an extraordinary circumstance occurred, which was the cause of his ruin. Being summoned to examine the body of a Spanish

gentleman, and having begun the operation too precipitately, the heart was observed to palpitate; in consequence of which, he was accused before the Inquisition: but the interposition of Philip II. procured to be merely enjoined to make a pilgrimage to the Holy Land. While at Jerusalem, he was invited to the sanctomical chair at Padua; but on his return, the slip was wreeked on the coast of Zante, where he soon after died. Vesatius has been represented as the first person who rescued anatomy from the slavery imposed upon who rescued anatomy from the slayery imposed upon it by deference to ancient opinions, and led the way to modern improvements. His first publication of note was a set of Anatomical Tables, which was soon followed by his great work "De Corports Humani Fabrica," printed at Basil in 1543, and often since in several countries. The earliest impressions of the plates are vest trained, but the arribute incomment and the statement of t countries. The earliest impressions of the plates are most valued, but the explanations were made subsequently more correct. In a treatise "De Radicis Chinæ Usu," he severely criticised the errors of Galen, which engaged him in a controversy with Fallopius. His medical and surgical writings are not held in much estimation

VESA'NIÆ. (The plural of vesania; from vesanas, a madman.) The fourth order in the Class Neuroses, of Cullen's nosological arrangement; compre-VESA'NIÆ. hending diseases in which the judgment is impaired, without either coma or pyrexia.

VESI'CA. (Diminutive of vas. a vessel.)

bladder.

VESICA FELLIS. The gall-bladder. See Gall-bladder VESICA URINARIA. The urinary bladder. See VESICA URINARIA.

Urinary bladder.

VESICATORY. (Vesicatorius; from vesica, a bladder: because it raises a bladder.) See Epispastic.

VESICLE. (Vesicula; a diminutive of vesica, a bladder.) An elevation of the cuticle, containing a transparent watery fluid.

VESICULA SEE PESICIE.

VESICULA PELUS. The gall-bladder.

VESICULE DIVE BARBARE. The confluent small-

VESICULE GINGIVARUM. The thrush.
VESICULE FULMONALES. The air-cells which compose the greatest part of the lungs, and are situated at the termination of the bronchia.

VESICULÆ SEMINALES. Two membranous receptacles, situated on the back part of the bladder, above tacles, situated on the back part of the bladder, above its neck. The excretory ducts are called ejaculatory ducts. They proceed to the urethra, into which they open by a peculiar orifice at the top of the verumontanum. They have vessels and nerves from the neighbouring parts, and are well applied with absorbent vessels, which proceed to the lymphatic glands about the loins. The use of the vesiculæ seminales is to receive the semen brought into them by the vasa deferentia, to retain, somewhat inspissate, and to excern it sub coitu into the urethra, from whence it is propelled into the vagina uteri.

Vesicular fever. See Pemphigus.
VESTI'BULUM. A round cavity of the internal
ear, between the cochlea and semicircular canals, in which are an oval opening communicating with the cavity of the tympanum, and the orifices of the semi-circular canals. It is within this cavity and the semicircular canals, that the new apparatus discovered by the celebrated neurologist Scarpa, lies. He has demonstrated membranous tubes, collected loosely by cellular strated membranes these, confectual regards, each of which is dilated in the cavity of the vestibule into an ampulla; it is upon these ampullae, which communicate by means of an alveus communis, that branches of the portio mollis are expanded.

VESUVIAN. Idocrase of Hady. A subspecies of pyramidal garnet of a green or brown colour, found in great abundance in unaltered ejected rocks in the vicinity of Vesuvius. At Naples it is cut into ring stones. VETO'NICA CORDI. See Betonica.

VEXILLUM. (Vexillum, i, n.; a banner or stand-d.) The standard, or large uppermost petal at the

back of a papilionaceous flower.

VIA. A way or passage. Used in anatomy. See

VIBEX. (Vibez, icis, plu. Vibices.) The large purple spot which appears under the skin in certain malignant fevers.

VIBRI'SSÆ. (Vibrissa; from vibro, to quaver.)
Hairs growing in the nostrils. See Capillus.

VIBURNUM LANTANA. Liburnum. The pliant meast

The berries are considered as adstringent, HY. The name of a town in France, in the VICHY. neighbourhood of which is a tepid mineral spring. account of its chalybeate and alkaline ingredients, it is taken internally, being reputed to be of great service in bilious colics, diarrheas, and in disorders of the stomach, especially such as arise from a relaxed or debilitated state of that organ.

These waters are likewise very useful when em-

These waters are likowise very useful when employed as a tepid-bath, particularly in rheumatism, sciatica, gout, &c. By combining the internal use with the external application, they have often effected a cure where other remedies had failed to afford relief.

VICIA. (\*\*issia\*, an old Latin name, derived by some etymologists from \*Vincio\*, to bind together, as the various species of this genus twine, with their tendrils, round other plants.) The name of a genus of plants in the Linnæan system. Class, \*Diadelphia\*; Order, \*Decembria\*, Decandria.

VICIA FABA. The systematic name of the common bean-plant. It is a native of Egypt. There are many varieties. Beans are very wholesome and nutritious to those whose stomachs are strong, and accustomed to the coarser modes of living. In delicate stomachs they produce flatulency, dyspepsia, cardialgia, &c. especially when old. See Legumina.

VICTORIA'IIS LONGA. See Allium victorialis.

VICTORIA'IIS LONGA. See Allium victorialis.

Victorial'ils longa. See Allium victorialis. VIEUSSENS, RAYMOND, was born at a village in Rovergne, graduated at Montpellier, and in 1671 was chosen physician to the hospital of St. Eloy. The result of his anatomical researches in this situation was published under the title of Neurolegy, and gained him great reputation. His name became known at court, and Mad. de Montpensier made him her physician. After her death he returned to Montpellier, and directed his attention to chemistry; and having found an acid in the caput mortuum of the blood, he made this the groundwork of a new medical theory. In adactd in the caput mortuum of the blood, he made this the groundwork of a new medical theory. In advanced life, his writings were multiplied without augmenting his reputation. He died in 1726.

VIGHLANCE. Pervigitium. Vigilance, when attended by anxiety, pain in the head, loss of appetite, and diminution of strength, is by Sauvages and Sagar.

considered as a genus of disease, and is called Agrypnia.

considered as a genus of disease, and is called Agrypnia. VILLOSUS. Villous, shaggy: applied in anatomy to a velvet-like arrangement of fibres or vessels, as the villous coat of the intestines: and in botany to the stem of the Cineraria integrifolia, and to other parts of plants; as the receptacle of the Artemisia absynthium. VILLUS. A species of hairy pubescens of plants, consisting of soft, slender, upright, short, and scarcely conspicuous, and for the most part white hair-like filaments.

VINCA. (From vincio, to bind: because of its usefulness in making bands.) The name of a genus of plants in the Linnean system. Class, Pentandria;

Order, Monogynia.

Under Minor. The systematic name of the less VINCA MINOR. The systematic name of the less periwinkle. Vinca pervinca; Clematis daphnoides major. It possesses bitter and astringent virtues, and is said to be efficacious in stopping nasal hæmorrhages when bruised and put into the nose. Boiled, it forms a useful adstringent gargle in common sore throat, and it is given by some in phthisical complaints.

VINCA PERVINCA. See Vinca minor.
VINCETO'XICUM. (From vinco, to overcome, and texticum, poison: so named from its supposed virtue of resisting and expelling poison.) See Asclepias vince-

VINE. See Vitis.

Vine, white. See Bryonia alba. Vine, wild. See Bryonia alba. VINEGAR. See Acctum.

VINLEGAK. See Acctum aromaticum.'
Vinegar, aromatic. See Acctum aromaticum.'
Vinegar, spirits of. See Acctum.
Vinegar of squills. See Acctum scilla.
Vinegar, thienes'. See Acctum aromaticum.
V'N'UM. See Wine.

VINUM. DESCRIPTION.
VINUM ALORS. Wine of aloes. Formerly known by the names of Tinctura hierae, and Tinctura sacra. Take of extract of spiked aloe, eight ounces; canellabark, two ounces; wine, six pints: proof spiris, two pints. Rub the aloes into powder with white sand, the sacra and impurities. The bloom of the sacra and impurities. previously cleansed from any impurities; rub the ca nella-bark also into powder; and after having mixed

these powders together, pour on the wine and spirit. I remedy for the crusta lactea. Macerate for fourteen days occasionally shaking the handful of the fresh herb, or ha mixture, and afterward strain. A stomachic purga-tive, calculated for the aged and phlegmatic, who are not troubled with the piles. The dose is from a half to a whole fluid ounce.

VINUM ANTIMONII. In small doses this proves alterative and diaphoretic, and a large dose emetic; in which last intention it is the common emetic for children.

VINUM ANTIMONII TARTARIZATI. See Antimonium

tartarizatum.

Take of iron flings, two ounces; wine, VINUM FERRIchalybeatum. change are two pints. Mix, and set the mixture by for a month, occasionally shaking it; then filter it through paper. For its virtues, see Ferrum tartarizatum.

VINUM IPECACUANHA. Wine of ipecacuanha. Take of ipecacuanha-root, bruised, two ounces; wine, two pints. Macerate for fourteen days, and strain. The dose, when used as an emetic, is from two fluid drachms

to half a fluid ounce

VISUM OPH. Wine of opium, formerly known by the names of Laudanum tequidum sydenhami, and Tinctura thebaica. Take of extract of opium, an ounce; cinnamon-bark, bruised, cloves, bruised, of each a drachm; wine, a pint. Macerate for eight days, and strain. See Opium.

VINUM VERATRI. Wine of white hellebore. Take of white hellebore-root, sliced, eight ounces; wine, two pints and a half; macerate for fourteen days, and

strain. See Veratrum.

VI'OLA. (From Igv; because it was first found in Ionia.) 1. The name of a genus of plants in the Linman system. Class, Syngenesia; Order, Monogynia. The violet.
2. The pharmacopæial name of the sweet violet.

See Viola odorata. VIOLA CANINA. The dog-violet. The root of this plant possesses the power of vomiting and purging the bowels; with which intention a scruple of the dried root must be exhibited. It appears, though neglected in this country, worthy the attention of physicians.

VIOLA IPECACUANHA. The plant which was supposed to afford the ipecacuanha root.

VIOLA LUTEA. See Cheiranthus cheiri.
VIOLA ODORATA. The systematic name of the sweet violet. Viola—acaulis, foliis cordatis, stoloni-bus repentibus, of Linnæus. The recent flowers of this plant are received into the catalogues of the ma-Ans plant are received into the catalogues of the materia medica. They have an agreeable sweet smell, and a mucilaginous bitterish taste. Their virtues are purgative or laxative, and by some they are said to possess an anodyne and pectoral quality. The officinal preparation of this flower is a syrup, which, to young children, answers the purpose of a purgative; it is also of considerable utility in many chemical inquiries, to detect an acid or an alkali; the former canaging the blue colour to a red, and the latter to a green.

VIOLA PALUSTRIS. See Pinguicula. VIOLA PEDATA. The violets are generally mucila-[VIOLA PEDATA. ginous plants, and employed as demulcents in catarrh and strangury. Some of them are allied to ipcca-cuanna, and contain emerin in their substance. The viola pedata, a native species retained in the pharmacopuria, is considered a useful expectorant and lubilities.

coperia, is considered a useful expectorant and lubicating medicine in pulmonary complaints, and is given in syrup or decection. Big. Mat. Med. A.]
VIOLA TRICOLOR. Harts-ease. Pansles. This well-known beautiful little plant grows in corn-fields, waste and cultivated grounds, flowering all the summer months. It waries much by cultivation; and by the vivid colouring of its flowers often becomes extremely beautiful in gardens, where it is distinguished by various To the taste, this plant in its recent state is extremely glutinous, or mucilagmous, accompanied with the common herbaceous flavour and roughness. By distillation with water, according to Haase, it affords a small quantity of odorous essential oil, of a somewhat acrid taste. The dried herb yields about half its weight of watery extract, the fresh plant about one-eighth. Though many of the old writers on the materia medica represent this plant as a powerful medicine in epilepsy, asthing, ulcers, scabies, and cutaneous complaints, yet the viola tricolor owes its present character as a medicine to the modern authorities of Starck, Metzger, Haase, and others, especially as a

For this purpose, a handful of the fresh herb, or half a drachm of it dried, hoiled two hours in milk, is to be strained and taken night and morning. Bread, with this decoction, is also by this treatment, it has been observed, that the cruption during the first eight days, increases, and that the urine, when the medicine succeeds, has an odour similar to that of eats; but on continuing the use of the plant a sufficient time, this smell goes off, the seabs disappear, and the skin recovers its natural purity. Instances of the successful exhibition of this medicine, as cited by these authors, are very numerous indeed this remedy, under their management, seems rarely, if ever, to have failed. It appears, however, rarely, if ever, to have failed. If appears, noweer, that Mursiama, Akermann, and Henning were less fortunate in the employment of this plant: the last of whom declares, that in the different cutaneous disorders in which he used it, no benefit was derived. Hause, who administered this species of violet in various and the experimental transfer or world its rays to many rious forms and large doses, extended its use to many chronic disorders; and from the great number of cases in which it proved successful, we are destrous of re-commending it to a fartner trial in this country.

It is remarkable that Bergius speaks of this plant as a useful mucilaginous purgative, and takes no notice of its efficacy in the crustea lactea, or in any other

VIOLA'RIA See Viola. VIOLET. See Viola odorata.

Violet, dog. See Viola canina.
VIPER. See Vipera.
VIPER-GRASS. See Scorzoner.
VI'PERAS. (Quod vi pariat: because it was thought that its young eat through the mother's bowels.)

The viper or adder. See Coluber berns.

VIPERA'RIA. See Aristolochia serpentaria.

VIPERI'NA. (From vipera, a snake: so called from the serpentine appearance of its roots.) See

Aristolochia serpentaria. Viperina virginiana. See Aristolochia serpen-

VI'RGA AUREA. See Solidago virga aurea. VIRGA'TA SUTURA. The sagittal suture of the skull VIRGIN'S BOWER. See Clematis recta.

Virgin's milk. A solution of gam-benzoin.
Virgin's milk. A solution of gam-benzoin.
Virginian snake-root. See Aristolechia virginiana.
Virginian tobacco. See Micotiana. VI'RUS. See Contagion

VIS. Power. In physiology, applied to vital power and its effects: hence as vita, vis insita, vis irritabilis, vis nervia, &c.

VIS CONSERVATRIX. See Vis medicatrix natura.

VIS ELASTICA. Elasticity.
VIS INERTIM. The propensity to rest inherent in

VIS INSITA. This property is defined by Haller to be that power by which a muscle, when wounded, touched, or irritated, contracts, independent of the will of the animal that is the object of the experiment, and Without its feeling pain. See Irritability.
VIS MEDICATRIX NATURE. Vis conser

term employed by physicians to express that healing power in an animated body, by which, when diseased, the body is enabled to regain its healthy actions.

VIS MORTUA. That property by which a muscle, after the death of the animal, or a muscle, immediately after having been cut out from a living body, contracts.

VIS NERVOSA. This property is considered by Whyst to be another power of the muscles by which they act when excited by the nerves.

VIS PLASTICA. That facility of formation which

spontaneously operates in animals.

Vis a tergo. Any impulsive power. Vis vittle. The natural power of the animal machine in preserving life.

From the most remote antiquity, philosophers were persuaded that a great part of the phenomena peculiar to living bodies, did not follow the same course, nor obey the same laws, as the phenomena proper to brute

To these phenomena of living bodies, a particular cause has been assigned, which has received different denominations. Hippocrates bestows on it the appellation of physis, or nature : Aristotle calls it the mosting

or generating principle; Kaw Boerhaave, the impetum facions; Van Helmont, archwa; Stahl, the soul; others, the vis insita, vis vita, vital force, &c. VISCIDITY. (Viciditas; from viscus.) Viscosity: glutinous, sticky, like the bird-lime. VISCIDITS. Viscod. 1. Of the nature of ropy pulp of the miscoun, or missletoe. In general use to imply viscolium in thinds.

viscidity in fluids, &c.

See Lentor.
 See Lentor.
 i, n.; and Viscus, i, m. Devived from the Greek, tξος, akered by the Æolians into βισκος.)
 The fruit of the misletoe. See Viscum

allum.

2. The name of a genus of parasitical plants in the Linuxan system. Class Dixcia; Order, Tetran-

VISCUM ALBUM. Viscus guercinus. Misletoe. This singular parasitical plant most commonly grows on apple-trees, also on the pear, hawthorn, service, oak, hazel, maple, ash, lime-tree, willow, elin, horn-bean, &c. It is supposed to be propagated by birds, especially by the field-fare and thrush, which feed upon its berries, the seeds of which pass through the bowels unchanged; and along with the excrement adhere to the branches of trees where they vegetate

The misletoe of the oak has, from the times of the ancient Druids, been always preferred to that produced on other trees; but it is now well known that the viscus

quercus differs in no respect from others.

This plant is the \$\text{if of the Greeks, and was in former}\$ times thought to possess many medicinal virtues; how-ever, we learn but little concerning its efficacy from the ancient writers on the Materia Medica, nor will it be deemed necessary to state the extraordinary powers ascribed to the misletoe by the crafty designs of Druidical knavery. Both the leaves and branches of the plant have very little smell, and a very weak taste of the nauseous kind. In distillation they impregnate water with their faint unpleasant smell, but yield no essential oil. Extracts made from them by water, are bitterish, roughish, and subsaline. The spirituous extract of the wood has the greatest austerity, and that of the leaves the greatest bitterness. The berries abound with an extremely tenacious and most un-

grateful sweet mucilage

The viscus quercus obtained great reputation for the The recus querous obtained great reputation for the cure of epilepsy; and a case of this disease, of a woman of quality, in which it proved remarkably successful, is mentioned by Boyle. Some years afterward its use was strongly recommended in various convulsive disorders by Colbach, who has related several instances of its good effects. He administered it in substance in doses of half a drachin, or a drachm, of the wood or leaves, or an infusion of an ounce. This author was followed by others, who have not only given testimony of the efficacy of the misletoe in different convulsive affections, but also in those an different convuisive affections, but also in those complaints denominated nervous, in which it was supposed to act in the character of a tonic. But all that has been written in favour of this remedy, which is certainly well deserving of notice, has not prevented it from falling into general neglect; and the colleges of London and Edinburgh have, perhaps not without reason, expunged it from their catalogues of the Materia Medica.

VISCIES. (Figure, eris, n.; plural, viscera.)

VI'SCUS. (Viscus, eris, n.; plural, viscera.) 1. Any organ or part which has an appropriate use, as the viscera of the abdomen, &c.

2. (Viscus, i, m.) The name of the misletoe. Sec

Viscum album.

VISION. .(Visus, 4s, m.) The function which enables us to perceive the magnitude, figure, colour, distance, &c. of bodies. The organs which compose the apparatus of vision enter into action under the influence of a particular excitant, or stimulus, called

We perceive bodies, we take cognizance of many of their properties, though they are often at a great distance;—there must then be between them and our eye some intermediate agent; this intermediate sub-stance we denominate light. Light is an excessively subtle fluid, which emanates from those bodies called luminous, as the sun, the fixed stars, bodies in a state of ignition, phosphorescence, &c. Light is composed of atoms which move with a prodigious rapidity, since they pass through about eighty thousand leagues of space in a second.

A series of atoms, or particles, which succeed each other in a right line without interruption are denominated a ray of light. The atoms which compose every ray of light are separated by intervals, that are considerable in proportion to their mass; which circumstances permit a considerable number of rays to cross each other in the same point, without their par-

ticles coming in contact.

The light that proceeds from luminous bodies forms diverging cones, which would prolong themselves in-definitely, did they meet with no obstacles. Philoso-phers have from thence concluded, that the intensity of light in any place, is always in an inverse ratio to the square of the distance of the luminous bodies from which it proceeds. The cones that are formed by the light in passing from luminous bodies, are, in general, called pencils of light, or pencils of rays, and the bodies through which the light moves are designated by the name of media.

When light happens to come in contact with certain bodies that are called opaque, it is repulsed, and its direction is modified according to the disposition of those bodies.—The change that light suffers in its course is, in this case, called reflection. The study of reflection constitutes that part of physics, which is

named catoptrics

named catoptries.

Certain bodies allow the light to pass through them; for instance glass: they are said to be transparent. In passing through these bodies, light suffers a certain change which is called refraction. As the mechanism of vision rests' entirely upon the principle of refraction, the examination of these becomes, therefore, a matter of importance.

The point where a ray of light enters into a medium is called the point of immersion; and that where it goes out is called the point of emergence.

If the ray comes in contact with a medium in a line perpendicular to its surface, the ray then continues its direction without any change; but if its direction is oblique to the surface of the medium, the ray is then turned out of its course, and appears broken at the point of immersion.

The angle of incidence is that which the incident ray makes with a perpendicular line drawn over the point of immersion upon the surface of the medium,

point of immersion upon the surface of the medicin, and the angle of refraction is that which the broken ray makes with the perpendicular.

If the ray of light pass from a rare medium into one more dense, it inclines towards the perpendicular at the point of contact; but it declines from it if it pass from a dense medium into one that is rarer. The from a dense medium into one that is rarer. The same phenomenon takes place, but in a contrary disame interior takes place, but in a contrary direction, when the ray enters into the first medium; this takes place in such a manner, that if the two surfaces of the medium traversed by the ray are parallel to each other, the ray in passing into the surrounding medium, will take a direction parallel to that of the incident run. incident ray

Bodies refract the light in proportion to their densty and combustibility. Thus, of two bodies of equal density, one of which being composed of more combustible elements than the other, the refractive power of the first will be greater than that of the

second.

All transparent bodies refract at the same time that they reflect the light. On account of this property these bodies are capable of being used as a sort of mirror. When their density is very inconsiderable, such as that of the air, they are not visible unless their mass be considerable

The form of a refractive body has no influence upon its refractive power; but it modifies the disposition of the refracted rays in respect to each other. In fact, the the released rays in respect to each other. In fact, the perpendiculars to the surfaces of the body, approaching or receding according to the form of the body, the refracting rays should at the same time approach or

When, by the effort of a refractive body, the rays tend towards each other, the point where they unite is called the focus of the refractive body. Bodies of a lenticular form are those which present principally this

phenomenon.

A refractive body, with parallel surfaces, does not change the direction of the rays, but it inclines them towards its axis by a sort of transportation. A refractive body of two convex sides does not possess a greater refractive power than a body convex on one side, and

plane on the other; but the point behind it in which | separating, forms it into cells. The details of anatomy,

the rays are united is much nearer.

The discovery of the action of refractive bodies upon light has not been an object of simple curiosity; it has led to the construction of ingenious instruments. by means of which the sphere of human vision has been extended to an extraordinary degree.

Apparatus of vision.—The apparatus of vision is composed of three distinct parts.

The first modifies the light.

The second receives the impression of that fluid. The third transmits this impression to the brain

The third transmits this impression to the brain. The apparatus of vision is of an extremely delicate texture, capable of being deranged by the least accident. Nature has also placed before this apparatus a series of organs, the use of which is to protect and maintain it in those conditions necessary to the perfect exercise of its functions. Those protecting parts are the eyebrows, the eyelids, and the secreting and exceeding apparatus of the tears.

eyebrows, which are peculiar to man, are

formed,

1. By hair, of a variable colour.

By the skin.

3. By sebaceous follicles placed at the root of every hair.

4. By muscles destined for their various motions, viz. the frontal portion of the occipito-frontalis, the superior edge of the orbicularis palpebrarum, the supercilium.

5. Numerous vessels.

Nernes.

The eye is composed of parts which have very different uses in the production of vision. They may be distinguished into refractive, and non-refractive.

The refractive parts are:

A. The transparent cornea, a refractive body, convex and concave, which, in its transparency, its form, and its insertion, pretty much resembles the glass that is placed before the face of a watch.

B. The aqueous humour which fills the chambers of

B. The aqueous humour which fills the chambers of the eye; a liquid which is not purely aqueous, as its name indicates, but is essentially composed of water, and of a little albumen.

C. The crystalline humour, which is improperly compared to a lens. The comparison would be exact, were it merely for the form; but it is defective in regard to structure. The crystalline is composed of concentric layers, the hardness of which increases from the surface to the centre, and which probably possesses different refractive powers. The crystalline is, besides, surrounded by a membrane, which has a great effect upon vision, as experience teaches us. A lens is homogeneous in all its parts: 'at its surface, as great effect upon vision, as experience teaches us. A lens is homogeneous in all its parts; at its surface, as in every point of its substance; it possesses every where the same refractive power. However, it is necessary to remark that the curve of the anterior surface of the crystalline is very far from being similar to that of the posterior aspect. This last belongs to a sphere, of which the diameter is much less than that of the subser to which the curve of the anterior surface has the content of the subsert to which the curve of the anterior surface. of the sphere to which the curve of the anterior surface belongs. Until now it has been understood that the crystalline was composed mostly of albumen; but according to a new analysis of Berzelius, it does not contain any: it is formed almost entirely of water, and of a peculiar matter that has a great analogy, in its chemical properties, to the colouring matter of the

Defined the crystalline is the vitreous humour, so called because of its resemblance to melted glass.

Each of the parts which we have noticed is enveloped by a very thin membrane, which is transparent like the part that it covers: thus, before the cornea is the conjunctiva; behind it is the membrane of the aqueous humour, which lines all the anterior chamber of the eye: that is, the anterior surface of the iris, and the eye; that is, the anterior surface of the iris, and the posterior surface of the cornea.

The crystalline is surrounded by the crystalline capsule, which adheres by its circumference to the membrane that covers the vitreous humour. This, in passing from the circumference of the crystalline upon the anterior and posterior surfaces of this part, leaves be-tween an interval which has been called the canal

goudronné.

The vitreous humour is also surrounded by a membrane called hyaloid. This membrane does not alone contain this humour, it is sent down among it, and

with regard to the disposition of the cells, have not hitherto added any thing to what is known of the use of the vitreous humour.

The eye is not only composed of parts that are re-fractive, but it is composed also of membranes which

tractive, but it is composed asso of membranes which have each a particular use; these are:—

A. The sclerotic, the exterior envelope of the eye, which is a membrane of a fibrous nature; it is thick and resisting, and its use is evidently to protect the interior parts of the organ; it serves besides as a point of insertion for many muscles that move the eye.

of insertion for many muscles that move the eye.

B. The choroid, a vascular and nervous membrane, formed by two distinct plates; it is impregnated with a dark matter which is very important to vision.

C. The iris, which is seen belind the transparent

cornea, is differently coloured in different individuals; it is pierced in the centre by an opening called the pupil, which dilates or contracts according to certain circum-stances which we shall notice. The iris adheres outstances which we shall notice. The ima anners outwardly, and by its circumference, to the sclerotic, by a cellular tissue of a particular nature, which is called the citiary, or irridian ligament. There are, behind the iris, a great number of white lines arranged in the manner of rays, which would unite at the centre of the iris, if they were sufficiently prolonged: these are

the ris, it they were sufficiently protonged. These are the ciliary processes.

Neither the use nor the structure of these bodies has been properly determined: they are believed by some to be nervous, by others to be muscular, while others think them glandular, or vascular. The truth is, their real structure is not understood.

The colour of the iris depends on its structure, which is variable, and on that of the dark layer of its posterior surface, the colour of which shines through the iris. For instance, the tissue of the iris is nearly white in blue eyes; in this case the dark colour behind appears almost alone, and determines the colour of the

Anatomists differ about the nature of the tissue of the iris: some think it entirely like that of the choroid, the tris: some think it entirely like that of the choroid, essentially composed of vessels and of nerves; others have imagined they saw a great many muscular fibres in it; others consider this membrane a tissue sui generis; and others confound it with the erectile structure. Edwards has shown that the iris is formed by four layers very easy to be distinguished, two of which are a continuation of the laming of the choroid; a ary a continuation of the rainings of the choroid; a third belongs to the membrane of the aqueous humour; and a fourth forms the proper tissue of the iris. Between the choroid and the hyaloid there exists a membrane essentially nervous. This membrane, known

by the name of the retina, is almost transparent; it presents a slight opacity, and a tint feebly inclining to lilac; it is composed of the expansion of the threads which compose the optic nerve.

The eye receives a great number of vessels, the ciliary arteries and veins, and many nerves, the greater part of which come from the ophthalmic gan-

The optic nerve preserves the communication be-tween the brain and the eye.

Mechanism of vision.—In order the better to explain the action of light in the eye, let us suppose a luminous cone commencing in a point placed in the prolongation of the anterior posterior axis of the eye. We see that only the light which falls upon the cornea can be useful for vision; that which falls on the white of the useful for vision; that white has on the white of the eye, the eyelads and eyelashes, contributes nothing; it is reflected by those parts differently according to their colour. The cornea itself does not receive the light on its whole extent; for it is generally covered in part by the border of the eyelids.

The cornea having a fine reliefs on the surface and

the Border of the eyelids.

The cornea having a fine polish on its surface, as soon as the light reaches it, part of it is reflected, which contributes to form the brilliancy of the eye. The same reflected light forms the images which one sees behind the cornea. In this case the cornea acts as a convex mirror. The form of the cornea indicates the convex mirror. The form of the collect mineral the influence it should have upon the light which enters the eye: on account of its thickness, it only causes the rays to converge a little towards the axis of the pencil; in other words it increases the intensity of the light which penetrates into the anterior chamber,

The rays, in traversing the cornea, pass from a more rare to a denser medium; consequently they ought to converge from the perpendicular towards the point of

contact. If, on entering into the anterior chamber, they passed out again, they would diverge as much from the perpendicular as they had converged before; and would, therefore, assume their former divergence; but as they enter into the aqueous humour, which is a medium more refractive than air—they incline less from the perpendicular, and consequently diverge less than if they had passed back into the air.

Of all the light transmitted to the anterior chamber.

Of all the light transmitted to the anterior chamber, only that which passes the pupil can be of use to vision; all that which falls upon the iris is reflected, returns through the cornea, and exhibits the colour of the iris.

In traversing the posterior chamber the light undergoes no new modification, as it proceeds always in the same medium (the aqueous humour).

It is in traversing the crystalline that light undergoes the most important modification. Philosophers compare the action of this body to that of a lens, the use of which would be to assemble all the rays of any cone of light upon a certain point of the retina. But as the crystalline is very far from being like a lens, we merely mention this opinion, which is generally received, to remark that it merits a fresh investigation. Every thing positive which can be said on the subject is, that the crystalline ought to increase the intensity of the light which is directed towards the bottom of the eye, with an energy proportionate to the convexity of posterior surface. It may be added, that the light which passes near the circumference of the crystalline is probably reflected in a different manner from that which passes through the centre; and that therefore the contraction and dilatation of the pupil ought to possess an influence upon the mechanism of vision, which deserves the attention of philosophers.

The whole of the light which arrives at the anterior

The whole of the light which arrives at the anterior surface of the crystalline, does not penetrate into the vitreous body; it is partly reflected. One part of this reflected light traverses the aqueous humour and the cornea, and contributes to form the brilliancy of the eye; another falls upon the posterior surface of the iris, and is absorbed by the dark matter found there.

It is probable that something of this sort happens at every one of the strata or layers which forms the crys-

The vitreous body possesses a less refractive power than the crystalline, consequently the rays of light which, after baving passed the crystalline, penetrate into the vitreous body, diverge from the perpendicular at the point of contact. Its use then, with regard to the direction of the rays in the eye, is to increase their con-vergence. It might be said, that in order to produce the same result, nature had only to render the crystalline a little more refractive; but the vitreous humour has another most essential use, which is, to give a larger extent to the retina, and thus to increase the field

What we said about a cone of light, commencing in a point placed in the prolongation of the anterio-poste-rior axis of the eye, must be repeated for every luminous cone commencing in other points, and directed towards the eye; with this difference, that, in the first case, the light tends to unite at the centre of the retina; while the light of the other cones tends to unite in difwhile the light of the other cones tends to unite in dif-ferent points, according to that form which they com-mence. Thus the luminous cones commencing from below, unite at the upper part of the retina, while those that come from above, unite at the lower part of this membrane. The other rays follow a direction analo-gous; so that there will be formed at the bottom of the eye an exact representation of every body placed before it, with this difference, that the images will be inverted, or in a position contrary to that of the objects they

represent.

This result is ascertained by different means. For this purpose, eyes, constructed artificially of glass, which represent the transparent cornea, and the crys-

which represent the transparent cornea, and the crystalline; and of water, which represents the aqueous and vitreous humours, have long been employed.

Motions of the iris.—Some say that the puril varies its dimensions according to the distance of the object. This fact has not been sufficiently demonstrated; hitherto the influence of the intensity of light is the only thing that has been correctly observed.

The choroid is of use to vision, principally by the dark matter with which it is impregnated, and which absorbs the light immediately after it has traversed the retina. One may consider, as a confirmation of this

opinion, what happens to some individuals in whom opinion, what nappens to some individuals in wifers some parts of this membrane become variesse. The dilated vessels throw off the darker matter which covered them, and every time that the image of the object talls upon the point of the retina corresponding to these vessels, the object appears spotted with red. The state of vision in Albino men and animals, in which the choroid and the iris are not coloured black,

which the choroid and the iris are not coloured black, supports still more this assertion; vision is extremely imperfect in them: during the day, they can scarcely see sufficiently to go about. Mariotte, Liccut, and others, have allowed to the choroid the faculty of perceiving light. This idea is completely without proof. We know very little, that is certain, of the ciliary processes. They are generally supposed contractile; but some think that they are destined to the motions of the iris while others more included to being the contraction.

the iris, while others imagine they are intended to bring

forward the crystalline.

The rays of light have now reached the retinn, which receives the impression of light when it is within certain limits of intensity. A very feeble light is not felt by the retina; too strong a light hurts it, and renders it unfit for action.

When the retina receives too strong a light, the When the retina receives too strong a light, the impression is called daxtling; the retina is then incapable for some time of feeling the presence of the light. This happens when one looks at the sun. After having been long in the dark, even a very feeble light produces dazzling.—When the light is exceedingly weak, and the eye made to observe objects narrowly, the retina becomes fatigued, there follows a painful feeling in the orbit, and also in the head.

A light, of which the intensity is not very strong but.

A light, of which the intensity is not very strong, but which acts for a certain time upon a determined point which acts for a certain time upon a determined point of the retina, renders it at last insensible in this point. When we look for some time at a white spot upon a black ground, and afterward carry the eye to a white ground, we seem to perceive a black spot; this happens because the retina has become insensible in the point which was formerly fatigned by the white light. the same manner, after the retina has been some time without acting in one of its points white the others have acted, the point which has been in repose becomes of an extreme sensibility, and on this account objects seem as if they were spotted. In this manner it is explained, why, after having looked a long time at a red spot, white bodies appear as if spotted with green; in this case, the retina has become insensible to the red rays, and we know that a ray of white light, from which the red is subtracted, produces the sensation of

The same sort of phenomena happens when we have looked long at a red body, or one of any other colour, and afterward look at, white, or differently coloured bodies.—We perceive with facility the direction of the bodies.—We perceive with facility the direction of the light received by the retina. We believe instinctively that light proceeds in a right line, and that this line is the prolongation of that according to which the light penetrated into the cornea. Therefore, whenever the light has been modified in its direction, before reaching the eye, the retina gives us nothing certain. Optical illusions proceed principally from this cause.

The retina can receive at the same time impressions in every point of its extent, but the sensations which result from them are then incorrect. It may be affected by the image of one or two objects only, though a much greater number he impressed on it; the vision is then much more defined.

The central part of the membrane appears to possess much more sensibility than the rest of its extent; we therefore make the image fall on this part when we wish to examine an object with attention.

Does the light act upon the retina by simple contact only, or must it traverse this membrane? The presence of the choroid in the eye, or rather the dark matter which covers it, renders this second opinion the most probable.

That part of the retins which corresponds with the centre of the optic nerve, has been said to be insensible to the impression of light. I know nothing which can

directly prove this assertion.

There is no doubt that the optic nerve transmits to the brain, in an instant, the impression that the light makes on the retina; but by what mechanism we are entirely ignorant. The manner in which the two optic nerves are contounded upon the sphenoid bone, ought, doubtless, to have a considerable influence upon the

Notwithstanding what has been said at different periods, as well as the late efforts of Gail, to prove that we see with only one eye at a time, there seems sufficient proof not only that the two eyes concur at the clent proof not only that the two cycs concur at the same time in the production of vision, but that it is absolutely necessary this should be so, for certain most important operations of this function. There are how ever certain cases in which it is more convenient to employ only one eye; for instance, when it is necessary to understand perfectly the direction of the light, or the situation of any body relative to us. Thus we shut one eye to take aim with a gun, or to place a number of bodies upon a level in a right line.

Another case in which it is advantageous to employ only one eye is, when the two organs are unequal either in refractive power or insensibility. same reason we shut one eye when we employ a telescope. But, except in these particular cases, it is of the utmost importance to employ both eyes at once. The following experiment proves that both eyes see the

same object at the same time.

Receive the image of the sun upon a plane in a dark chamber; put before your eyes too thick glasses, each of which presents one of the prismatic colours. If your eyes me good and both equally strong the image of the sun will appear of a dirty white, whatever be the colour of the glasses employed. If one of your eyes is much stronger than the other, the image of the sun will be seen of the same colour as the glass which is before the strongest eye.

One object produces then really two impressions while the brain perceives only one. To produce this the motions of the two eyes must be in unison. If, after a disease, the movement of the eyes are no longer regular, we receive two impressions from the same object, which constitutes strabismus, or squinting. We may also, at pleasure, receive two impressions from one body; for that purpose, it is only necessary to derauge the harmony of the two eyes. Estimation of the distance of picets.—Vision is produced essentially by the action of light upon the retina,

and yet we always consider the bodies from which light proceeds as being the cause of it, though they are often placed at a considerable distance. This result can be

produced only by an intellectual operation.

We judge differently of the distance of bodies according to the degree of that distance; we judge correctly when they are near us, but it is not the same when they are at a short distance; our judgment is then often incorrect: but when they, are at a great distance, we are constantly deceived. The united action of the two eyes is absolutely necessary to determine exactly

Suspend a ring by a thread, and fix a hook to the end of a long rod, of a size that, will easily pass the ring; stand at a convenient distance, and try to introduce the hook: in using both eyes, you may succeed with ease in every attempt you make; but if you shut one eye, and then endeavour to pass the hook through, you will not then endeavour to pass the hook through, you will not succeed any longer; the hook will go either too far or else not far enough, and it will only be after trying repeatedly that it will be got through. Those persons whose eyes are very unequal in their power, are sure to fail in this experiment, even when they use them

When a person loses an eye by accident, it is some times a whole year before he can judge correctly of the distance of a body placed near him. Those who have distance of a body placed near him. Those who have only one eye, determine distance, for the most part, very incorrectly. The size of the object, the intensity of the light that proceeds from it, the presence of inter-mediate bodies, &c. have a great influence upon our

just estimation of distance

We judge most correctly of objects that are placed upon a level with our bodies. Thus, when we look from the top of a tower at the objects below, they appear much less than they would if they were placed at the same distance, on the same plane with ourselves Hence the necessity of giving a considerable volume to objects that are intended to be placed on the tops of buildings, and which are to be seen from a distance. The smaller the dimensions of an object are, the nearer it ought to be to the eye, in order to be distinctly seen. What is called the distinct point of view, is also very

transmission of the impressions received by the eyes;—but this is also a point upon which it is difficult to form but a bird could not be distinctly seen at the same distance. If we wish to examine the hair or the feathers tance. If we wish to examine the nair of the leathers of those animals, the eye requires to be much fearer. However, the same object may be seen distinctly at different distances: for example, it is quite the same to many persons whether they place the book that they are reading at one or two feet of distance from the eye. The intensity of the light which illuminates an object, has a considerable effect upon the distance at which it can be distinctly seen.

Estimation of the size of bodies.—The manner in which we arrive at a just determination of the size of bodies, depends more upon knowledge and habit tnan upon the action of the apparatus of vision. our judgment relative to the dimensions of bodies, from the size of the image which is formed in the eye, from the intensity of the light which proceeds from the object, from the distance at which we think it is placed, and, above all, from the habit of seeing such objects. We therefore judge with difficulty of the size of a body that we see for the first time, when we cannot appre ciate the distance. A mountain which we see at a distance for the first time, appears generally much less than it really is; we think it is near us when it is very far away

Beyond a distance somewhat considerable, we are so completely deceived, that judgment is unable to correct us. Objects appear to us infinitely less than they really

as happens with the celestial bodies

Estimation of the motion of bodies.—We judge of the motion of a body by that of its image upon the retina, by the variations of the size of this image, or, which is the same thing, by the change of the direction of the

the same thing, by the change of the direction of the light which arrives at the eye.

In order that we may be able to follow the motion of a body, it ought not to be displaced too rapidly, for we could not then perceive it; this happens with bodies projected by the force of gunpowder, particularly when they pass near us. When they move at a distance from us, the light comes from them to the eye for a much longer space of time, because the field of view is much greater, and we can see them with more fecility. We greater, and we can see them with more facility. ought to be ourselves at rest, in order to judge correctly of the motions of bodies

When bodies are at a considerable distance from us. we cannot easily perceive their motions to or from us. In this case, we judge of the motion of the body, only by the variation of the size of its image. Now this variation being infinitely small, because the body is at a great distance, it is very difficult, and frequently impossible, for us to estimate its motion. Generally we perceive with great difficulty, sometimes we cannot perceive at all; the motion of a body which moves extremely slow; this may be on account of the slowness of its own motion, as in the case of the hand of a watch, or it may be the result of the slow motion of the image, which happens with the stars, and objects very

far from us.

Of optical illusions.—After what we have just said, of the manner in which we estimate the distance, the of the mainer in which we estimate the histance, the size, and the motion of bodies, we may easily see that we are often deceived by sight. These deceptions are known in Physics, and in Physiology, by the name of optical illusions. Generally we judge pretty well of bodies placed near us; but we are most commonly deceived with regard to those that are distant. Those illusions which happen to us with regard to objects that are near us, are the result, sometimes of the reflection, sometimes of the refraction, of light before it reaches the eye; and sometimes of the law that we establish instinctively; namely, that light proceeds

We must refer to this cause those illusions occasioned

We must refer to this cause those illusions occasioned by mirrors at the same distance behind them, as the mirrors at the same distance behind them, as the mirrors are distant from the eye. To this cause may be attributed also the apparent increase, or diminution of bodies seen through a glass. If the glass make the rays converge, the body a gass. It the glass make the rays converge, the body will appear greater; if it cause them to diverge, the body will appear less. These glasses produce still another illusion; objects appear surrounded by the colours of the solar spectrum, because their surfaces not being parallel, they decompose light in the manner of the prism.

We are constantly deceived by objects at a distance, in a manner that we cannot prevent, because those

animal economy. An object seems near us in proportion as its image occupies a greater space upon retina; or in proportion to the intensity of the light which proceeds from it.

Of two objects of a different volume, equally illuminated and placed at the same distance, the greatest will appear the nearest, should circumstances be such as to admit of the distance being justly estimated. Of as to admit of the distance being justly estimated. Of two objects of equal volume, placed at an equal distance from the eye, but unequally illuminated, the brightest will appear the nearest; it would be the same, if the objects were at unequal distances, as can be easily seen in looking at a string of lamps: if there happen to be one of them brighter than the rest, it will appear the nearest, while that which is really the nearest will appear the farthest, if it is the least bright. An object seen without any intermedium, always appears nearer than when there happens to be between it and the eye, some body that may have an influence upon the estimation that we make of its distance

When a bright object strikes the eye, while all the objects around it are obscured, it appears much nearer than it really is; a light in the night produces this

effect.

Objects appear always small in proportion as they are distant; thus, the trees in a long alley, appear so much smaller, and so much nearer together, in proportion as they are farther from us. It is by observing these illusions, and the laws of the animal economy, It is by observing upon which they are founded, that art has been enabled to imitate them. The art of painting, in certain

abled to imitate them. The art of painting, in certain cases, merely transfers to the canvass those optical errors into which we most habitually fall.

The construction of optical instruments is also founded upon these principles: some of them augment the intensity of the light, which proceeds from the objects observed; others cause it to diverge, or converge, in order to increase or diminish their apparent vo-

By the constant exercise of the sense of sight, we are By the constant exercise of the sense of sight, we are enabled to get over many optical illusions, as will be proved by the curious history of the blind youth, spoken of by Cheselden. This celebrated surgeon, by a surgical operation, generally said to be that for cataract, but, more probably, it was a division of the membrana pupillaris, procured sight to a very intelligent person who was born blind: and he observed the manifestic this this concernment developed in this remove ner in which this sense was developed in this young "When he saw the light for the first time, he knew so little how to judge of distances, that he be-lieved the objects which he saw touched his eyes (and this was his expression) as the things which he felt touched his skin. The objects which were most plea-sant to him were those whose form was regular and smooth, though he had no idea of their form, nor could be tell why they pleased him better than the others. During the time of his blindness he had such an imperfect idea of colours, that he was then able to distinguish, by a very strong light, that they had not left an impression sufficient by which he could again recognise them. Indeed, when he saw them, he said recognise them. Indeed, when he saw them, is said the colours he then saw were not the same as those he had seen formerly; he did not know the form of any object; nor could he distinguish one object from another, however different their figure or size might be: when objects were shown to him which he had known formerly by the touch, he looked at them with attention, and observed them carefully in order to know them again; but as he had too many objects to retain at once, he forgot the greater part of them, and when he first learned, as he said, to see and to know objects, he forgot a thousand for one that he recollected. was two months before he discovered that pictures represent solid bodies; until that time he had considered them as planes and surfaces differently coloured, and diversified by a variety of shades; but when he began to conceive that these pictures represented solid bodies, in touching the canvass of a picture with his hand he expected to find in reality something solid upon it, and he was much astonished when, upon touching those parts which seemed round and unequal, he found them dat and smooth like the sort, he asked which those parts which seemed round and thequia, he found them flat, and smooth like the rest; he asked, which was the sense that deceived him,—the sight or the touch? There was shown to him a little portrait of his father; which was in the case of his mother's watch he said, that he knew very well it was the resemblance

deceptions result from certain laws which govern the of his father; but he asked, with great astonishment, hew it was possible for so large a visage to be kept in so small a space, as that appeared to him as impossible as that a space, as that a space as that a space as that a bushel should be contained in a pint. He could not support much light at first, and every object seemed very large to him; but after he had seen larger things he considered the first smaller: he thought there was nothing beyond the limits of his sight. The same operation was performed on the other eye about a year after the first, and it succeeded equally well. At first he saw objects with his second eye much larger than with the other, but not so large, however, as he had seen them with the first eye; and when he looked at the same object with both eyes at once, he said that it appeared twice as large as with the first eye; but he did not see double, at least it could not be ascertained that he saw objects double, after he had got the sight of the second eye."

This observation is not singular; there exists a number of others, and they have all given results nearly alike. The conclusion that may be drawn from it is. that the exact manner in which we determine the distance, size, and form of objects, is the result of habit, or, which is the same thing, of the education of the

sense of sight.

Vision, defective. See Dysopia. VI'SUS See Vision.

VISUS See Vision.
VISUS DEPIGERATIS. See Metamorphopsia.
VITA. (Vita, a, f.; à vivendo.) See Life.
VITA. (Vita, a, f.; à vivendo.) See Life.
VITE ARBOR. See Arbor vite.
VITE LIGNUM. See Fraciacum.
Vital actions. See Vital functions.
Vital price. See Vital functions.
Vital principle. See Life.
VITALBA. See Clematis reata.
VITELLUS. (Vitellus, i, m.; from vita, life; because the life of the click is in it.)
1. The yelk of an egg.
2. In botany applied by Gærtner to that part of a seed which is very firmly and inseparably connected with the embryo, yet never rising out of the integrments of the seed in germination, but absorbed, like the albumen, for the nourishment of the embryo. If the albumen be present, the vitellus is always situated the albumen be present, the vitellus is always situated between it and the embryo, and yet is constantly distinct from the former. It is esteemed by Gærtner to compose the bulk of the seed in the fusci, mosses, and ferns. In the natural order of grasses, the vitellus forms a scale between the embryo and the albumen. Sir J. Smith thinks the vitellus is nothing else than a

Sir J. Smith thinks the vitellus is nothing else than a subterraneous cotyledon. See Albumen.

VITEX. (From vico, to bind.) The name of a genus of plants in the Linnman system. Class, Didynamia; Order, Angiospermia.

VITEX AGNUS CASTUS. The systematic name of the

Agnus castus; Elwagnon. The chaste tree. Agnus castus; Elwagnon. The chaste tree. Vitex-foliis digitatis, serratis, spicis verticillatis, of Lin-mus. The seeds are the medicinal part, which have, mans. The seems are the monthline party when fresh, a fragrant smell, and an acrid aromatic taste. Formerly they were celebrated as anaphrodisiacs; but experience does not discover in them any degree of such virtue, and some have described to them an opposite one. They are now fallen into disuse. Vi'ti saltus. See Chorea.

VITILI'GO. (Vitiligo, inis, f.; from vitio, to infect.)

See Alphus. VI'TIS. 1. The name of a genus of plants in the Linnæan system. Class, Pentandria; Order, Monogynia.

2. The pharmacopæial name of the grape. See Vitis vinifera.

VITIS ALBA. See Bryonia alba.
VITIS CORINTHICA. The dried fruit of this tree is the Uva passa minor; Passa corinthiaca. The virtues of the currant are similar to those of the raisin. See Vitis vinifera.

VITIS IDEA. See Vaccinium.

VITIS SYLVESTRIS. White bryony.

VITIS VINIFERA. The systematic name of the grape-tree. Vitis—foliis lobatis sinuatis nudis, of Linnaus. Vine leaves and the tendrils have an adstringent taste, and were formerly used in diarrheas, hæmorrhages, and other disorders requiring refrigerant and styptic medicines. The juice or sap of the vine called lachry-ma, has been recommended in calculous disorders: and it is said to be an excellent application to weak eyes

and specks of the cornea. The unripe fruit has a harsh, rough, sour taste; its expressed juice, called verjuice, was formerly much esteemed, but is now superseded by the juice of lemons; for external use, however, particularly in bruises and pains, verjuice is still employed, and considered to be a very useful application. The defed four its extremities, the power of the vibrations, and the every particularly in bruises and pains, verjuice is still employed, and considered to be a very useful application. The defed four its extremities to the very supersequence of the very superseque seded by the juice of lemons; for external use, however, particularly in bruises and pains, verjuice is still
employed, and considered to be a very useful application. The dried fruit is termed Uva passa major.
Passula major, the raisin. Raisins are prepared by
immersing the fresh fruit into a solution of alkaline
salt and soap-ley, made boiling hot, to which is added some olive oil, and a small quantity of common salt, and afterward drying them in the shaq. They are used as agreeable, lubricating, acescent sweets in pectoral decoctions, and for obtanding the acrimony in other medicines, and rendering them grateful to the palate and stomach. They are directed in the decoctum hordei compositum, tinctura senne, and tinctura cardamomi compositu. See also Wine and Acetum. VITR. RIA. The pellitory of the wall.

VITREOUS. (Vitreus; from vitrum, glass: so named from its transparency.) Glassy: applied to parts of the body.

VITREOUS HUMOUR. Humor vitreus. The pellucid body which fills the whole bulb of the eye behind the crystalline lens. The vitreous substance is composed of small cells which communicate with each other, and

of small cells winch communicate with each other, and are distended with a transparent fluid.

VITRIOL. See Vitriolum.

Vitriol, acid of. See Sulphuric acid.

Vitriol, jetion. See Cupri sulphas.

Vitriol, green. See Ferri sulphas.

Vitriol, Roman. See Cupri sulphas.

Vitriol, sweet, spirit of. See Spiritus atheris sulnhurici.

See Zinci sulphas.

Vitriolated kali. See Potasse sulphas.
VITRIOLUM. (From vitrum, glass: so called om its likeness to glass. Hollandus says this word from its likeness to glass. is fictitious, and composed from the initials of the following sentence: Vade in terram rimando, invenies, optimum lapidem veram medicinam.) Calcatinum; Calcatar; Calcotar; Calcanthos; Calcanthum; Calcitea. Vitriol, or sulphate of iron. See Ferri sul-

Phas.
VITRIOLUM ALBUM. See Zinci sulphas.
VITRIOLUM CORULEUM. See Cupri sulphas.
VITRIOLUM ROMANUM. See Cupri sulphas. VITRIOLUM CERULEUM. See Cupri sutphas.
VITRIOLUM EMANUM. See Ferri sulphas.
VI'TRUM. (Vitrum, i, n.) Glass.
VI'TRUM. (Fitrum, i, n.) Glass.

mony first calcined, then fused in a crucible.

VITRUM ANTIMONII CERATUM. A diaphoretic compound exhibited in the cure of dysenteries arising from checked perspiration.

VITRUM HYPOCLEPTICUM. A funnel to separate oil from water. VIVERRA.

VIVERRA. The name of a genus of animals in the Order Fora, of the Linnean classification. ViverRA civetta. The systematic name of the ash-coloured weazel, which, with the following species, affords the perfume called civet. VIVERRA ZIBETHA. The systematic name of the

VIVERRA ZIBETHA. The systematic name of the vet-cat. See Civetta.

VIVUM. A name variously applied: to mercury, civet-cat.

because it moves about as if it were alive; hence ar

gentum vivum: to lime, because when moisture is added it cracks and swells, as if alive.

VOICE: Fox. By voice we understand the sound which is produced in the larynx, at the instant when the air traverses this organ, either to enter or go out of the tracker.

the trachea.

In order to understand the mechanism by which the voice is produced and modified, we must say something of the manner in which sound is produced, in which it is propagated and modified in wind instruments, particularly those that have most analogy with the organ of voice.

A wind instrument is generally formed of a tube, either straight or bent, in which, by various processes,

the air is made to vibrate.

Wind instruments are of two sorts: the one sort are called mouth instruments, the other sort reed instru-

In the mouth instruments (the horn, trumpet, trombone, flageolet, flute, organ,) the column of air con-tained in the tube is the sonorous body. The air must be caused to vibrate in it in order to produce sounds.

nature of the matter which forms the sounds has no influence but upon the tone.

The red instruments are the most necessary to be known, for the organ of the voice is of this kind. Their theory is, unfortunately, much more imperfect than that of the other sort. In this sort of instruments, (the clarionet, hautboy, bassoon, voice organ, &c.) we ought to distinguish between the reed, or anche, and the body of the tube. Their mechanism is essentially dif-

A reed is always formed of one, and sometimes of two, thin plates, susceptible of a rapid motion, the alternate vibrations of which are intended to intercept alternate vibrations of which are intended to intercept and permit, by turns, the passage of a current of air. For this reason, the sounds which they produce do not follow the same laws as the sounds formed by elastic plates, with one end fixed, and the other free, which produce sonorous undulations in the open air. In the plates, with one end fixed, and the other free, which produce sonorous undulations in the open air. In the reed instruments, the reed alone produces and modifies the sound. If the plate is long, the motions are long, slow, and consequently the sounds are grave. On the contrary, a short plate produces acute sounds, because the alternations of transmission and interception of the current of air are more rapid.

When a number of different sounds are intended to be produced by a reed, it is necessary to vary the length of the plate. The bassoon and clarionet players do this when they wish to produce different sounds on the same instrument. We add, as an important circumstance, that the greater or less elevation of sound prostatice, that the greater of less channel of the duced by the instrument, parlly depends on the elasticity, the weight, and the form of the little tongue, or plate, and on the force of the current of air. If all these elements are not the same, the length being inva-

riable, the tone will be different.

A reed is never employed alone; it is always fitted to a tube through which the wind passes that has been blown into the reed, and which ought, on this account, to be open at the two extremities. The tube has no influence upon the tone of the music; it acts only upon the intensity, the timbre, and upon the power of making the reed speak.

Apparatus of voice.—The larynx ought properly to be considered as the organ of voice.

The size of the larynx varies according to age and sex. It is placed at the anterior part of the neck where a small projection is seen, between the tongue and the trachea. It is small in children and women,

greater in young men, and still larger in adult age.

The larynx not only produces the voice, but it is also the agent of its principal modifications; on which account, a perfect knowledge of the anatomy of this count, a periect knowledge of the anatomy or ansorgan is indispensably necessary to a perfect knowledge of the mechanism of voice. As we cannot enter here into all the details of the structure of the larynx, we will only touch upon such as are most necessary to be known, many of which are not yet well understood.

Four cartilages and three fibro-cartilages enter into

Four cartilages and three fibro-cartilages enter into the composition of the larynx, and form the skeleton of it. The cartilages are the cricoid, the thyroid, and the two arytanoid. The thyroid joins with the cricoid by the extremity of its two inferior horns. In the living state, the thyroid is fixed with respect to the cricoid, which is contrary to what is generally supposed. Every arytanoid cartilage is articulated with the cricoid by means of a surface, which is oblong and convention. arytenoia carinage is attitudated whit the critical and concave in a transverse direction. The critical presents a surface which is similarly disposed to that of the arytenoid, with this difference, that it is convex in the same direc-tion in which the other is concave. Round the articuwith this difference; that it is convex in the same direc-tion in which the other is concave. Round the articu-lation there is a synovial capsule, firm before and be-hind, and moveable without and within. Before the articulation is the thyro-arytenoid ligament; behind is a strong ligamentous band that might be called crico-arytenoid, on account of the manner in which it is

Thus disposed, the articulation admits only of lateral movements of the arytanoid upon the cricoid cartilage. novements of the arysenote upon the critical caritage. No movement forward or backward can take place, nor a certain movement up and down, mentioned in anatomical books, which none of the muscles is so disposed as to produce. This articulation ought to be con-Sidered as a simple lateral ginglymus. The fibro-cartilages of the larynx are the epiglattis, and two small podies that are found above the top of the arytanoid cartilages, and that have been called by Santorini,

cartilages, and that have been called by Santorini, capitula cartilaginum arytemoidearum.

There are a great many muscles attached to the larynx. These muscles are called external: they are intended to move the whole organ, either in cartying it up or down, backward or forward, &c. The larynx has also other muscles, whose use is to give a movement to the different parts in respect of each other. These muscles have been called internal. They are, 1st, The crico-thyroid, the use of which is not, as has hitherto been believed, to lower the thyroid upon the cricoid cartilage, but, on the contrary, to raise the cricoid towards the thyroid cartilage, or in making it pass a little below its inferior edge.

a little below its inferior edge.

2d, The muscles crico-arytanoideus posterior, and the crico-arytanoideus lateralis, the use of which is to draw outwards the arytanoid cartilages, in separating them from one another.

The arytenoid muscle, which draws the aryte-

noid cartilages together.

4th, The thyro-arytanoideus, a knowledge of which is more important than that of all the muscles of the larynx, because its vibrations produce the vocal sound. This muscle forms the lips of the glottis, and the inforior, superior, and lateral sides of the ventricles of the

5th, Lastly, the muscles of the epiglottis, which are the thyro-epiglottideus, the arytano-epiglottideus, and some fibres that may be considered as the vestige of the glosso-epiglottideus muscle that exists in some animals, whose contraction has an influence upon the position

of the epiglottis.

The larynx is covered within by a mucous membrane. This membrane, in passing from the epiglottis to the arytenoid and thyroid cartilages, forms two folds, called ateral ligaments of the epiglottis. They concur in the ormation of the superior and inferior ligaments of the

In the substance of the epiglottis, and behind it, are found a great number of mucous follicles, and some mucous glands. Within the mass of the ligaments of the epiglotis, there exists a collection of those bodies that have been very improperly called arytanoid

glands.

Between the epiglottis behind, and the os hyoides Between the epigotus bennin, and the os myones and thyroid cartilage before, there is seen a considerable quantity of the adipose cellular tissue, which is very elastic, and similar to that which exists near certain articulations. There has been no use assigned to this body. Dr. Magendie believes it serves to facilitate the frequent movements of the thyroid cartilage upon the previous state to keen the the posterior face of the os hyoides, and to keep the epiglottis separated from the upper part of this bone, while, at the same time, it provides it with a very elastic support, favourable to the action of the fibrocartilages in the production of the voice, or in deglu-

The vessels of the larynx present nothing remarka-It is not so with the nerves of this organ. Their distribution merits a careful examination. four of these nerves, the superior laryngeal and the

inferior to these herves, the superior caryingear and the inferior.

The recurrent nerve is distributed to the posterior crico-arytemoid, to the lateral crico-arytemoid, and thyro-arytemoid. None of the ramifications of this nerve go to the arytemoid, or to the crico-thyroid, muscles. On the contrary, the superior nerve of the larynx goes to the arytemoid muscle; which it provides with a considerable branch; and to the crico-thyroid, to which it gives a small filament, more remarkable for the distance it proceeds than for its size. In certain cases this filament does not exist. The external branch of the nerve of the larynx is then of a larger size. The remainder of the filaments of the laryngeal nerves are distributed to the epiglottis, and to the mucous mem-

distributed to the epiglottis, and to the mucous membrane which covers the entrance of the larynx. This part possesses an extraordinary sensibility.

The interval which separates the thyro-arytænoid muscles, and the arytænoid cartilages, is called glottis. In the dead body, the glottis presents the appearance of a longitudinal slit of about eight or ten lines long, and two or three wide; it is wider behind than before.

\*\*Hare the two sides upset at the point of their insertion. Here the two sides meet at the point of their insertion

into the thyroid cartilage. The posterior extremity of the glottis is formed by the arytanoid muscles.

If the arytanoid cartilages are brought together so as

to touch on their internal faces, the glottis is diminished to touch on their internal faces, the glottis is diminished nearly a third of its length. It then presents a slit which is from five to six lines long, and from half a line to a line long. The sides of this slit are called the *lips of the glottis*. They present a sharp edge turned upward and inward. They are essentially formed by the arytemoid muscle, and by the ligament of the same name, which, as an aponeurosis, covers the muscle to which it adheres strongly, and which, being itself covered by the mucous membrane, forms the thinnest nation of the surface of the im. These lips of the glottis wilvate. covered by the mucous membrane, forms the thinnest parts or edge of the lip. These lips of the glottls vibrate in the production of the voice; they might be called the human reed. Above the inferior ligaments of the glottls are the ventricles of the largnz, the cavity of which is larger than it seems at first sight. The superior, inferior, and external sides of it are formed by the thyro-arytemoid muscle, turned upon itself. The extremity, or anterior side, is formed by the thyroid cartilage. By means of these ventricles, the lips of the glottis are completely isolated upon their upper side.

Above the opening of the ventricles we see two bo-dies, which, in their manner of being disposed, have a great deal of analogy with the vocal chords, and which form a sort of second glottis above the first. These bodies are called the superior ligaments of the glottis. They are formed by the superior edge of the thyro ary They are formed by the superior eagle of the thyo afy tenoid muscle, a little adipose cellular tissue, and the mucous membrane of the larynx, which covers them before penetrating into the ventricles. These observations are easily made upon the larynx of dead bodies. The glottis of a living person has never been examined,

The glottis of a living person has never been examined, at least there has been nothing written on this subject; but when those of animals, as of dogs, are examined, they contract and enlarge alternately. The arytenoid cartilages are directed outwards when the air penetrates into the lungs; and in the instant when the air passes out, they come close together.

Mechanism of the Production of Voice.—If we take the trachea and the larynx of an animal or of a man, and blow air strongly into the trachea, directing it to wards the larynx, there is no sound produced, but only a slight noise, resulting from the pressure of the aft against the sides of the larynx. If, in blowing, we bring together the arytemoid cartilages, so that they may touch upon their internal face, a sound will be

bring together the arytænoid cartilages, so that they may touch upon their internal face, a sound will be produced, something like the voice of the animal to which the larynx used in the experiment belongs.

The sound will be dull or sharp, according as the cartilages are pressed more or less forcibly together: its intensity will be more or less, according to the intensity of the air. It is easily seen, in this experiment, that the sound is produced by the vibrations of the inferior ligament of the glottis.

ligament of the glottis.

Both man and the animals are deprived of voice by making an opening below the larynx. The voi reproduced if the opening is closed mechanically. reproduced it the opening is closed mechanically. Dr. Magendic knows a person who has been in this situation for four years. He cannot speak without pressing a cravat strongly against a fistulous opening in the larynx. The same thing takes place when the larynx is opened below the inferior ligaments of the glottis. But if a wound exists above the glottis, if the epiglottis and its muscles are affected, if the superior ligaments of the superior ligaments.

ment of the glottis, even if the superior aspect of the arytanoid cartilages are injured, the voice continues.

Lastly, the glotts of an animal being laid bare in the instant that it cries, shows very well that voice is produced by the vibrations of the vocal chords, or lips of the glottis. This is enough to prove, beyond all doubt, that the voice is formed in the glottis by the motion of its inferior ligaments.

This fact being established, is it possible, on physical principles, to account for the formation of the voice? The following explanation appears the most probable.

The air being pressed from the lungs, proceeds in a pipe of considerable size. This pipe very soon becomes contracted, and the air is forced to pass through a narrow slit, the two sides of which are vibrating plates, which permit and intercept the air, like the plates of reeds, and which ought, in the same manner, by these alternations, to produce sonorous undulations in the transmitted current of air.

But, in blowing into the trachea of a dead body, why does it not produce a sound like that of the human voice? Why is the palsied state of the internal mus- of being made wider or narrower; being susceptible of cles of this organ followed by the loss of the voice? assuming an infinite variety of forms, ought to be very voice? Why is the passed state of the internal nuscles of this organ followed by the loss of the voice? Why, in a word, is an act of the will necessary to produce the vocal sound? The answer to this is not diffi-The ligaments of the glottis have not the faculty of vibrating like plates of reeds, except the thyro-ary-temoid muscles are contracted; and, therefore, in every case in which the muscles are not contracted, the voice will not be produced

Experiments performed on animals are perfectly in unison with this doctrine. Divide the two recurrent nerves, and the voice will cease. If only one is cut,

the voice will be only half lost.

Dr. Magendie, however, has seen a number of animals, in which the two recurrent nerves had been cut, cry very loud when they suffered severe pain. sounds were very similar to the sounds that would be produced mechanically with the larynx of the animal when dead, by blowing into the trachea, and bringing when tead, by blowing into the trachea, and bringing together the arytemoid cartiages. This phenomenon is easily understood by the distribution of the nerves of the larynx. The recurrents being cut, the thyroarytemoid muscles do not contract, and thence results the loss of voice; but the arytemoid muscle, that recurrently the contract of the contra ceives its nerves from the superior laryngeal, contracts, and brings together, in the instant of a strong expira-tion, the aryta-noid cartilages, and the slit of the glottis becomes sufficiently narrow for the air to throw the thyro-arytænoid muscles, though they are not contracted, into vibration.

Intensity or volume of the voice. The intensity of the voice, like that of all other sounds, depends upon the extent of the vibrations.

The vibrations of the rocal chords will be in proportion to the force with which the air is expelled from the breast; and the longer the chords are, that is, the more voluminous the larynx is, the more considerable will be the extent of the vibrations. A strong person, with a large chest, and a larynx of large dimensions, presents the most advantageous condition for the intensity of the voice. If such a person becomes sick, his voice, on account of his weakness, loses much of its intensity, because it is no longer expelled with the same force from the chest.

Children, women, and eunuchs, whose larynx is pro-portionably less than that of a man in adult age, have also much less intensity of voice.

In the ordinary production of the voice, it results from the simultaneous motions of the two sides of the glottis. Were one of these sides to lose the faculty of causing the air to vibrate, the voice would lose, necessarily, half its intensity, the force of expiration being the same. This may be proved in cutting one of the recurrent nerves of a dog, or in paying attention to the voice of a person who has had a complete attack of

hemiplegia.

Tone of the voice .- Every individual has a particular tone of voice by which he is known: there is also a particular tone which belongs to the different sexes and age. The tone of the voice presents an infinite number of modifications. Upon what circumstances do these depend? This is unknown. The feminine tone, however, which is found in children and eunuchs, generally agrees with the state of the cartilages of the larvax. On the contrary, the masculine tone which women sometimes possess, appears to be connected with the state of these cartilages, and particularly with that of the thyroids. Tone is a modification of sound, of which philosophers have by no means given an exact explanation.

Of the extent of the voice.- The sounds which the human larynx is capable of producing are very nume-Many celebrated authors have endeavoured to explain the manner of their formation; but they have

rather given us comparisons than explanations.

We have examined the reed of the organ of voice; we shall now consider the tube that the vocal sound traverses after having been produced. In proceeding from below upwards, the tube is composed, 1st, of the interval between the epiglottis before, its lateral ligaments upon the sides, and of the posterior side of the pharynx; 2dly, of the pharyny behind, and laterally, and of the most posterior part of the base of the tongue before; 3dly, sometimes of the mouth, and sometimes of the nasal cavities; at other times, of these two cavities together.

This tube, capable of being prolonged or shortened

capable of performing all the functions of the body of a reed instrument;—that is, to be capable of harmonizing with the larynx, and of thus favouring the production of the numerous tones of which the voice is susceptible; of increasing the intensity of the vocal sound, by taking a conical form, with the base outwards: of giving a roundness and agreeableness to the sound, by suntably exposing its exterior opening, or by almost entirely shutting it, &c.
Until the influence of the tube of reed instruments

has been determined with precision, it is evident that we can form only probable conjectures respecting the influence of the tube of the organ of voice. In this respect we can make only a small number of observations, which relate particularly to the most apparent

A. The larynx is raised in the production of acute sounds; it is lowered, on the contrary, in the formation of those that are grave; consequently, the vocal tube is shortened in the first case, and lengthened in the

second.

We suppose that a short tube is more favourable to the transmission of acute sounds, while a long one is more so for those that are grave. The tube changes its more so for those that are grave. The tube changes its length at the same time that it changes its breadth; and this is remarkable, as we have seen above that the breadth of the tube has a great influence upon its facility of transmitting sounds.

When the larynx descends, that is, when the vocal tube is prolonged, the thyroid cartilage descends, and removes from the os hyoides the whole height of the thyro-hyoid membrane. By this separation the gland of the epiglottis is carried forward, and places itself in the cavity of the posterior aspect of the os hyoides; this gland draws after it the epiglottis: from this results a considerable enlargement of the inferior part of

the vocal tube.

The contrary phenomenon happens when the larynx is raised. The thyroid cartilage then rises, and becomes engaged behind the os hyoides, by displacing and pushing back ward the epiglottid gland; this pushes the epiglottis, and the vocal tube is much contracted. By imitating the motion upon the dead body, we may easily ascertain that the narrowing may proceed to five-sixths of the breadth of the tube. Now, we adapt a large tube to a reed for the purpose of producing grave sounds; on the contrary, it is a narrow tube which is generally employed for the purpose of transmitting acute sounds. We can then, to-a certain degree, account for the utility of the changes of breadth which take place in the inferior part of the vocal

B. The presence of the ventricles of the larynx immediately above the inferior ligaments of the glottis, appears intended to isolate those ligaments, so that they may vibrale freely in the air. When foreign bodies enter the ventricles, or when a false membrane, or mucosities are formed, the voice is generally ex-

tinguished, or much weakened.

C. From its form, its position, its elasticity; from the motions which its muscles impress upon it, the epiglottis appears to belong essentially to the apparatus of the voice; but what are its uses? We have already of the voice; but what are its uses? We have already seen that it contributes powerfully to the narrowing of the vocal tube; it may be supposed that it has a more important function.

D. The vocal tube has visibly an influence upon the intensity of the voice. The most intense sounds which the voice can produce, cause the mouth to be opened very wide, the tongue to be drawn a little back, and the velum of the palate raised into a horizontal position, and to become elastic, closing all com-

munication with the nostrils.

In this case the pharynx and the mouth evidently perform the office of a speaking trumpet, that is to say they represent very exactly a tube with a reed, which increases in wideness outwards, the effect of which is increases in wineriess otherwise, the effect of which is to augment the intensity of the sound produced by the reed. If the mouth is in part closed, the lips carried forward and turned towards each other, the sound will acquire rotundity, and an agreeable expression; but it will lose part of its intensity: this result is easily explained after what we have said of the influence of the form of tubes in reed instruments.

For the same reasons, whenever the vocal sound

passes into the nose, it will become dull, for the form of the cavities of the nose is well fitted for diminishing the intensity of sounds. If the mouth and nose are

shut at the same time, no sound can be produced. E. We have seen, in considering the production of voice, that a great number of modifications relative to voice, that a great number of modifications relative to expression arise from changes of the mickness, and of the elasticity of the lips of the glottis. The tube may produce a number of others, according to its different degrees of length or breadth; according to its form, the contraction of the pharynx, the position of the tongue, or of the volum of the palate; according as the sound passes wholly or in part through the mouth, or the nose, or both nearther; according to the individual dissosition. or both together; according to the individual disposition of the mouth or nose; the existence or non-existence of teeth; the size of the tongue, &c.; the expression of the voice is continually modified according to all these circumstances. For example, whenever the sound traverses the nasal cavities, it becomes disagreeably nasal.

Those persons are mistaken, who think that the in-tensity of vocal sound may be augmented by repercussion, in passing through the nasal cavities; these cavi-ties produce quite a contrary effect. Whenever the voice is introduced into them, from whatever cause, it

becomes dull.

F. Besides the numerous modifications which the tube of the vocal organ causes in the intensity and the expression of the voice, in alternately permitting or intercepting its productions: there is another very important kind of modification produced by it. By means of this the vocal sound is divided into very small portions, each possessing a distinct character, because each of them is produced by a distinct motion of the tube. This sort of influence of the vocal tube is of the tube. This sort of influence of the vocal tube is called the faculty of articulating, which presents, besides, an infinite variety of individual differences suitable to the peculiar organization of the vocal

when we hitherto treated of the human voice in a general manner; we now proceed to speak of its principal modifications; namely, the cry or native voice; the voice properly so called, or acquired voice; any acquired voice; any acquired voice; the voice properly so called, or acquired voice; the voice properly so called, or acquired voice; speech, or articulate voice; singing, or appreciable

voice. The cry, or native voice.—The cry is a sound which cannot be appreciated; it is, like all those sounds produced by the larynx, susceptible of variation in tone, intensity, and expression. The cry is easily distinguished from all other vocal sounds; but as its character depends upon the expression, it is impossible to account physically for the difference between it and the latter. Whatever is the condition of man, or whatever his age, he is capable of crying. The newborn child, the idiot, the person deaf from birth, the savage, the civilized, the decrepit old man, all are capable of producing cries. We ought, then, to consider the cry as particularly attached to organization; indeed, we may be convinced of this in examining its uses.

By the cry we express vivid sensations, whether they proceed from without or within; whether they are agreeable or painful:—there are cries of pleasure and of pain. By the cry we express our most simple instinctive wants, the natural passions. There is a cry of fury, another of fear, &c.

There exist wants and passions not being an indis-

The social wants and passions, not being an indis-pensable consequence of organization, and the state of civilization being necessary for their development, they have no peculiar cry. The cry comprehends, generally. the most intense sounds that the organ of voice can produce; its expression has often something in it which offends the ear, and it has a strong action upon those who are near it

who are near it.

By means of the cry, important relations are established among mankind. The cry of joy inclines to joy; the cry of pain excites pity; the cry produced by terror causes fear, even in those at a distance, &c.

This sort of language is found in most animals; it is almost the only language which has been given them; the song of birds ought to be considered as a modification of this cry.

tion of their cry

Acquired voice, or voice properly so called.—In the usual state of man, that is, when he lives in society, and when he is possessed of the faculty of hearing, he knows, from earliest youth, that mankind utter sounds which are not cries he very soon finds that he can soon become more distinct and connected; nurses then

produce the same sort of sounds with his larynx, and immediately, what is called acquired voice, is developed in him, by the effect of imitation, and the advantages he derives from it. A deat child cannot make any remark with regard to sound, and, therefore, he never acquires it. There seems to be no difference between the voice and the cry, except in intensity and expression, for it is likewise formed of inappreciable sounds, or of sounds whose intervals are not exactly distinguished by the ear.

Since the voice is the consequence of hearing, and Since the voice is the consequence of nearing, and of an intellectual process, it cannot be developed if those circumstances, by which it is produced, do not exist. In fact, children born deaf, who have never had any idea of sound; idiots, that establish no relation between the sounds which they hear, and those which their larynx can produce, have no voice, though the vocal apparatus of both may be fit to form and modify

sounds as well as that of individuals perfectly formed.

For the same reason those whom we improperly term savages, because they have been found wandering in forests since their infancy, can have no voice; the understanding not being developed in a solitary state, but only in social life. but only in social life.

The expression, the intensity, the tone of the voice, are susceptible of numerous modifications on the part of the larynx; the vocal tube also exerts a powerful influence upon the voice: speech and singing are only modifications of the social voice.

Multipleations of the voice by age.—The larynx is in proportion very small in the fætus, and the new-born infant; its small volume forms a contrast with that of the os hyoides, with the tongue and other organs of deglutition, which are already much developed. Besides, it is round, and the thyroid cartilage forms no projection in the neck.

projection in the neck.

The lips of the glottis, the ventricles, the superior ligaments, are very short in proportion to what they become afterward; for the thyroid cartilage not being much developed, they consequently occupy a small space. The cartilages are fexible, and have not nearly the solidity which they possess afterward.

The larynx preserves these characters almost till puberty; at this period a general revolution takes place in the economy. The development of the genital organs determines a sudden increase in the nutrition of many of the organs of which that of the writer.

tion of many of the organs, of which that of the voice

is one.

The greatest activity of nutrition is first remarked in the muscles; afterward, but more slowly, it is seen in the cartilages: the general form of the larynx is then the cartilages: modified; the thyroid cartilage becomes developed in its anterior part, it forms a projection in the neck, but greater in the male than in the female. From this circumstance results a considerable prolongation of the lips of the glottis, or thyro-arytænoid muscles; this phenomenon is much more worthy of remark than the general increase of the glottis which happens at the same time

Though these changes in the larynx are rapid, they do not happen all at once; sometimes it is six or eight

months before they terminate.

After puberty the larynx does not suffer any other remarkable changes; its volume and the projection of the thyroid cartilage continue to increase, and become more strongly marked, tially ossified in manhood. The cartilages become par-

In old age the ossification of the cartilages continues and becomes almost complete; the epiglottid gland diminishes considerably, and the internal muscles, but those particularly that form the lips of the glottis, diminish in volume, assume a colour less deep, and lose their elasticity; in a word, they take the same modifications as the muscular system in general.

The production of voice, as it supposes the passage

of air to and from the laugs to take place, cannot exist in the fietus, plunged as it is in the liquor amnu; but the child is capable of producing very acute sounds at the instant of birth.

Vagitus is the name that is given to this voice, or cry of children, by which they express their wants and We must recollect that this is the object of feelings. the cry.

Towards the end of the first year, the child begins to form sounds that are easily distinguished from the vagitus. These sounds, at first vague and irregular, very

begin to make them pronounce the most simple words, the sun, as with Convolvulus sapium, the French nd afterward, those that are more complicated.

The pronunciation of children has very little resem

The pronunctation of charten has very nite resemblance to that of adults; but there is also a great difference between them. In children, the teeth have not yet quitted their alveoli; the tongue is comparatively very large; when the lips are closed they are larger than is necessary for covering anteriorly the gums; the nasal cavities are not much developed, &cc

Children advance only by degrees, and in proportion as their organs of pronunciation approach those of the adult, to articulate exactly the different combinations adult, to articulate exactly the different combinations of letters. They are not capable of forming appreciable sounds, or of singing, until long after they have acquired the faculty of speech. This sort of sounds is the voice properly so called, or acquired they could not exist in the child were it deaf. They ought not to be considered as a modification of the vagitus.

Until the period of puberty, the larynx remains proportionably very small, as well as the lips of the glottis: the voice is also composed entirely of acute sounds. It is physically impossible that the larvnx should pro-

duce grave ones.

At puberty, particularly in males, the voice undergoes a remarkable modification: it acquires in a few days, often all at once, a gravity, and a dull or deaf ex-

pression, that it was far from having before.

It sinks in general about an octave. The voice of a young man is said to moult, according to the common systems in a case of the voice is almost en-tirely lost for some weeks; it frequently contracts a marked hoarseness. Sometimes it happens that the young man produces involuntarily a very acute sound when he wishes to produce a grave one; it is then scarcely possible for him to produce appreciable sounds,

or to sing true.

This state of things continues sometimes nearly a This state of things communes sometimes meanly ayear, after which the voice becomes more clear, and remains so during life: but some individuals lose entirely, during the moulting of the voice, the faculty of singing; others, who having a fine extensive voice before the moulting, have afterward only a very ordi-

nary one

The gravity that the voice acquires depends evidently upon the developement of the larynx, and particularly on the prolongation of the lips of the glottis. parts cannot stretch backward, they come forward: it is also at this time that the larynx projects in the neck and the pomum adami appears. In the female, the lips of the glottis do not present at puberty this increase

lips of the glottis do not present at puoety this increase in breadth; the voice also generally remains acute. The voice generally preserves the same characters until after adult age; at least the modifications that it undergoes in the interval are but inconsiderable, and the volume. To affect principally the expression, and the volume. affect principally the expression, and the volume. Towards the beginning of old age, the voice changes anew, its expression alters, and its extent diminishes: singing is more difficult, the sounds become noisy, and their production painful and fatiguing. The organs of pronunciation being changed by the effect of age, the teeth become shorter, and frequently being lost, the pronunciation is sensibly changed. All these phenomena are more noted in confirmed old age. The voice is weak, shaking, and broken; singing has the same characters which depend on impaired muscular contraction. Sugeeth also undergoes remarkable modificatraction. Speech also undergoes remarkable modifications; the slowness of the motions of the tongue, the want of the teeth, the lips proportionably longer, &c. necessarily influence the pronunciation."—Magendie's

Physiology.
VOLATICUS. (Volaticus; from volo, to fly.) Volatile; that goeth or flieth, as it were, away suddenly.

VOLATILE. See Volaticas.
Volatile alkali. See Ammonia.
Volatile caustic, alkali. See Ammonia.
Volatile rousile, alkali. See Ammonia of the volatile caustic, alkali. See Ammonia. state, and quit the vessels in which they are placed.

VOLCANITE. See Augite.

VOLCANTIE. See Augue.
Volse Lua. A probang, or instrument to remove bodies sticking in the throat.
VOLUBILIS. Twining. Botanists apply it to stems which twine round other plants by their own spiral form, either from left to right, supposing the observer in the centre (or, in other words, according to the apparent motions of the sun); as in Tamus communis, and the honeysuckle: or from right to left contrary to

VOLVA. (Volva, &, f.; from valva.) The wrap-per or covering of the fungous tribe, of a membranous texture, concealing their parts of fructification, and in due time bursting all round, forming a ring upon the stalk, as in Agraricus campostries. Such is the original meaning of this term, as explained by Linnews; but it has become more generally used by Linnews; but it has become more generally used by Linnews; but it has become more generally used by Linnews; himself for the fleshy external covering of some other fungi, which is scarcely raised out of the ground, and enfolds the whole plant when young. It is simple, double, or stellated, very much cut; as in Lycopodium stellatum. VO'LVULUS. (From volvo, to roll up.) The iliac passion, or inflammation in the bowels, called twisting of the guts. See High passion. due time bursting all round, forming a ring upon the

of the guts. See Iliac passion.
Voluntum TERRESTRIS. Small bind-weed. The

Convolvulus minor.

VO'MER. Named from its great resemblance to a bughshare. It is a slender thin bone, separating the ploughshare. nostrils from each other, consisting of two plates much compressed together, very dense and strong, yet so thin as to be transparent; these two plates seem at every as to be transparent; these two plates seem at every edge to separate from each other, and thus a groove is formed at every side.—I. This groove on the upper edge, or, as it may be called, its base, is wide, and receives into it the projecting points of the ethmoid and sphenoid bones, and thus it stands very firmly and securely on the skull, and capable of resisting blows of considerable violence.—2. The groove, upon the lower part, is narrower, and receives the rising line in the middle of the palate plate, where the house into forms. middle of the palate plate, where the bones join to form the palate suture. At the forepart it is united by a ragged surface, and by something like a groove, to the middle cartilage of the nose, and as the vomer receives the other bones into its grooves, it is, as it were, locked in on all sides, receiving support and strength from each, but more particularly from the thick and strong membrane which covers the whole, and which is so continuous as to resemble a periosteum, or rather a continued ligament, from its strength; thus the slender womer possesses sufficient strength to avert from it all those evils which must inevitably have occurred, had it been less wisely or less strongly constructed.

VO'MICA. (From vomo, to spit up; because it discharges a sanies.) An abscess of the lungs.

VOMITING. Vomitio. A forcible ejection of food, or any other substance from the stomach, through the

esophagus and mouth. "That internal sensation which announces the necessity of vomiting is called nausea; it consists of a general uneasiness, with a feeling of dizziness in the head, or in the epigastric region: the lower lip trembles, and the saliva flows in abundance. Instantly, and involuntarily, convulsive contractions of the aband involuntarily, convenience contractions of the an-dominal muscles, and at the same time, of the dia-phragm, succeed to this state; the first are not very intense, but those that follow are more so; they at last become such, that the matters contained in the stomach surmount the resistance of the cardia, and are thus darted, as it were, into the æsophagus and mouth; the same effect is produced many times in succession; it ceases for a time, and begins again after some in-

At the instant that the matters driven from the stomach traverse the pharynx and the mouth, the glottis shuts, the velum of the palate rises, and becomes horizontal, as in deglutition; nevertheless, every time that one vomits, a certain quantity of liquid is introduced either into the larynx, or the nasal canals.

Overling was long believed to depend upon the rapid convulsive contraction of the stomach; but it has been shown, by a series of experiments, that, in the process, this viscus is nearly passive; and that the true agents of vomiting are, on the one hand, the diagrams of vomiting are, on the one hand, the diagrams of vomiting are.

phragm, and, on the other, the large abdominal muscles. In the ordinary state, the diaphragm and the muscles of the abdomen co-operate in vomiting; but each of of the condinent co-operate in voluning, but each of them can, nevertheless, produce it separately. Thus, an animal still vomus, though the diaphragm has been rendered immoveable by cutting the diaphragmatic rendered influoreant of cutting the dispiraginate nerves; it vomits the same, though the whole abigaminal muscles have been taken away by the kuife, with the precaution of leaving the linea alba and the peritonaum untouched.

Voniting of blood. See Hamatemesis. Vomitus cruentus. See Hamatemesis.

Voracious appetite. See Bulimia.

Vox abscissa. Hoarseness, and also a loss of voice. Vulga'go. The asarabacca was so called. See

VULNERA'RIA. (From vulnus, a wound.) Medicines which heal wounds. An herb named from its vuse in healing wounds.

Vulneraria aqua. Arquebusade.

VU'LNUS. A wound.

VULNUS SCLOPETICUM. A gun-shot wound.

VULPENITE. A mineral of a grayish-white colour, found along with granular foliated limestone, at

Vulpino, in Italy. VU'LVA. (Quasi valva, the aperture to the womb; or quasi valva, hecause the intus is wrapped up in it.)
The pudendum mulicbre, or parts of generation proper to women; also a foramen in the brain.
VULVA/RIA. (From vulva, the womb; so named from its smell, or use in disorders of the womb.) Stink-line crach. See Che.

ing orach. See Chenopodium vulvaria.

WACKE.

WADD. A name of plumbago.

Wadd, black. An ore of manganese: so called in Derbyshire.

Derbyshire.

WAKE ROBIN. See Arum.

WALL-FLOWER. See Cheiranthus cheiri.

WALL-PELLITORY. See Parietaria.

WALL-PEPPER. See Sedum acre.

WALNUT. See Juglans.

WALTHER, Atoustrine Frederic, a physician, was appointed, in 1723, professor of anatomy and surgery at Leyden. Several of his dissertations on anatomical subjects are commended and brace been regery at Leyden. Several of his dissertations on mat-tomical subjects are commended, and have been re-printed by Haller. The best of his larger pieces is "De Lingua Humana Libellus," in quarto. As a botanist he published a Catalogue of the Plants in his own garden, and a work on the Structure of Plants. He diad shough the west 1746.

own garden, and a work on the Structure of Plants. He died about the year 1746.

WALTON. A town, near Tewkesbury in Gloucestershire, where there is a mineral spring, containing a small portion of iron dissolved in fixed air; of absorbent earth combined with hepatic air; of vitriolated magnesia, and muriated mineral alkali; but the proportions of these constituent parts have not been accu-Walton water is chiefly efficarately ascertained.

cious in obstructions and other affections of the glands.
[WARREN, Dr. Joseph, was born in Roxbury,
near Boston, in 1741. He was a distinguished physician and patriot of the American Revolution, and was killed early in the contest, at the battle of Bunker's Hill, June The following is from Thacher's Life of

"The calmness and indifference of the veteran 'in clouds of dust and seas of blood,' can only be acquired by long acquaintance with the trade of death; but the heights of Charlestown will bear eternal testimony, how suddenly in the cause of freedom the peaceful citizen can become the invincible warrior; stung by oppression, he springs forward from his tranquil puroppression, ne spings to ward from instranqui pur-suits, undaunted by opposition and undismayed by danger, to fight even to death for the defence of his rights. Parents, wives, children, and country, all the hallowed properties of existence, are to him the talisman that takes fear from his heart and nerves his arm to victory. In the requiem over those who have fallen in the cause of their country, which 'Time, with his own eternal lips shall sing,' the praises of Warren shall be distinctly heard.

The blood of those patriots who have fallen in defence of republics has often 'cried from the ground,' against the ingratitude of the country for which it was shed. No monument was reared to their fame; no record of their virtues written; no fostering hand exrecord of their virtues written; no lostering many ex-tended to their offspring; but they and their deeds were neglected and forgotten. Towards Warren there was no ingratitude,—our country is free from this stain. Congress were the guardians of his honours, and re-membered that his children were unprotected orphans. Within a year after his death, Congress passed the following resolution :

That a monument be erected to the memory of General Warren, in the town of Boston, with the following inscription

In Honour of JOSEPH WARREN, Major-General 'In Honour of Advances we will the horizontal of Massachusetts Bay. He devoted his life to the liberties of his country; and in bravely defending them, fell an early victim in the BATTLE OF BUNKER HILL,

ACKE. A mineral substance intermediate be-tween clay and basalt.

June 17, 1775. The Congress of the United States, as an acknowledgment of his services and distinguished an acknowledgment of his services and distinguished merit, have erected this monument to his memory."

It was resolved, likewise, 'That the eldest son of General Warren should be educated from that time at the expense of the United States.' On the first of July, 1780, Congress, recognising these former resolutions, further resolved, 'That it should be recommended to the execution of Managamenta. to the executive of Massachusetts Bay, to make provision for the maintenance and education of his three younger children; and that Congress would defray the expense to the amount of the half-pay of a major-general; to commence at the time of his death, and con tinue till the youngest of the children should be of age. The part of the resolutions relating to the educating of the children, was carried into effect accordingly. The monument is not yet erected, but it is not too late. The shade of Warren will not repine at this needlect, while the ashes of Washington repose without gravestone or

the ashes of Washington repose without gravestone or epitaph." Thank. Med. Brog. A.]

WATER. Aqua. This fluid is so well known, as scarcely to require any definition.

It is transparent, without colour, smell, or taste; in a very slight degree compressible; when pure, not liable to spontaneous change; liquid in the common temperature of our atmosphere, assuming the solid form at 32° Fahrenheit, and the gaseous at 212°, but returning unaltered to its liquid state on resunning any degree of heat between these points; capable of dissolving a greater number of natural bodies than any other fluid whatever, and especially those known by the name of the saline; performing the most important functions in the vegetable and animal kingdoms, and entering largely into their composition as a conand entering largely into their composition as a constituent part.

"Native water is seldom, if ever, found perfectly pure. The waters that flow within or upon the sur-face of the earth, contain various earthy, saline, metallic, vegetable, or animal particles, according to the substances over or through which they pass. Rain and snow waters are much purer than these, although they also contain whatever floats in the air, or has been exhaled along with the watery vapours

The purity of water may be known by the following

marks or properties of pure water:—

1. Pure water is lighter than water that is not pure.

2. Pure water is more fluid than water that is not

3. It has no colour, smell, or taste.
4. It wets more easily than the waters containing metallic and earthy salts, called hard waters, and feels softer when touched.

5. Soap, or a solution of soap in alkohol, mixes easily and perfectly with it.

6. It is not rendered turbid by adding to it a solution

of gold in aqua regia, or a solution of silver, or of lead or of mercury, in nitric acid, or a solution of acetate lead in water

Water was, till modern times, considered as an elementary or simple substance

Previous to the month of October, 1776, the cele-Previous to the month of October, 1770, the can-brated Macquer, assisted by Signud de la Fond, made an experiment by burning hydrogen gas in a bottle, without explosion, and holding a white china saucer over the flame. His intention appears to have been that of ascertaining whether any faligmous smoke was produced, and he observes, that the saucer remained perfectly clean and white, but was moistened with perceptible drops of a clear fluid, resembling water: and I which, in fact, appeared to him and his assistant to be nothing but pure water. He does not say whether any test was applied to ascertain this purity, neither does

he make any remark on the fact

he inake any remark on the ract.

In the month of September, 1777, Bucquet and Lavoisier, not being acquainted with the fact which is incidentally and concisely mentioned by Macquer, incidentally and concisely mentioned by Macquer, median experiment to discover what is produced by the combustion of hydrogen. They fired five or six pints of hydrogen in an open and wide-mouthed bottle, and instantly poured two ounces of lime-water through the flame, agitating the bottle during the time the col bustion lasted. The result of this experiment showed,

that carbonic acid was not produced.

that carbonic acid was not produced.

Before the month of April, 1781, Mr. John Warltire, encouraged by Dr. Priestley, fired a mixture of common air and hydrogen gas in a close copper vessel, and found its weight diminished. Dr. Priestley, likewise, before the same period, fired a like mixture of hydrogen and oxygen gas in a closed glass vessel, Mr. Warltire being present. The inside of the vessel, though clean and dry before, became dewy, and was lined with a sooty substance. These experiments though clean and dry before, became devry, and was lined with a sooty substance. These experiments were afterward repeated by Mr. Cavendish and Dr. Priestley; and it was found, that the diminution of weight did not take place, neither was the sooty matter perceived. These circumstances, therefore, must have arisen from some imperfection in the apparatus or materials with which the former experiments were

It was the summer of the year 1781, that Mr. Henry Cavendish was busied in examining what becomes of the air lost by combustion, and made those valuable experiments which were read before the Royal Society experiments which were read before the Royal Society on the 15th of January; 1784. He burned 500,000 grain measures of hydrogen gas, with about two and a half times the quantity of common air, and by causing the burned air to pass through a glass tube eight feet in length, 135 grains of pure water were condensed. He also exploded a hixture of 19,500 grain measures of oxygen gas, and 37,000 of hydrogen, in a close vessel. The condensed liquor was found to contain a small portion of nitric acid, when the mixcontain a small portion of nitric acid, when the mix-ture of the air was such, that the burned air still contained a considerable portion of oxygen. In this case it may be presumed, that some of the oxygen combines with a portion of nitrogen present.

In the mean time, Lavoisier continued his researches,

and during the winter of 1781-1782, together with Gingembre, he filled a bottle of six pints with hydrogen, which being fired, and two ounces of lime-water poured in, was instantly stopped with a cork, through which a flexible tube communicating with a vessel of oxygen was passed. The inflammation ceased, except at the orifice of the tube, through which the oxygen was pressed, where a beautiful flame appeared. was pressed, where a beautiful flame appeared. The combustion continued a considerable time, during which the lime-water was agitated in the bottle. Neither this, nor the same experiment repeated with pure water, and with a weak solution of alkali instead of lime-water, afforded the information sought after, for these substances were not at all altered.

The inference of Mr. Warltire, respecting the moisture on the inside of the glass in which Dr. Priestley for the hydrogen and common all, was that there

first fired hydrogen and common air, was, that these airs, by combustion, deposited the moisture they contained. Mr. Watt, however, inferred from these experiments, that water is a compound of the burned airs, which have given out their latent heat by combustion; and communicated his sentiments to Dr. Priestley in a letter dated April 26, 1783

It does not appear, that the composition of water was known or admitted in France, till the summer of 1783, when Lavoisier and De la Place, on the 24th of June, repeated the experiment of burning hydrogen and oxygen in a glass vessel over mercury, in a still greater quantity than had been burned by Mr. Cavendish. The result was nearly five gross of pure water. Monge made a similar experiment at Paris nearly at

the same time, or perhaps before.

This assiduous and accurate philosopher then proceeded, in conjunction with Meusnier, to pass the steam of water through a red-hot iron tube, and found steam of water through a red-hot iron tube, and round that the iron was oxydized, and hydrogen disengaged and the steam of water being passed over a variety of other combustible or oxidable substances, produced 2120 under the atmospherical pressure of 29 5 inches

similar results, the water disappearing and hydrogen being disengaged. These capital experiments were accounted for by Lavoisier, by supposing the water to be decomposed into its component parts, oxygen and hydrogen, the former of which unites with the ignited substance, while the latter is disengaged. The grand experiment of the composition of water by Fourcroy, Vauquelin, and Seguin, was begun on Wednesday, May 13, 1790, and was finished on Friday, the 22d of the same month. The combustion was keep to 185 boars with title interruption, during which

kept up 185 hours with little interruption, during which time the machine was not quitted for a moment. The experimenters alternately refreshed themselves when fatigued, by lying for a few hours on mattresses in the

To obtain the hydrogen, 1. Zinc was melted and rubbed into a powder in a very hot mortar. 2. This metal was dissolved in concentrated sulphuric acid diluted with seven parts of water. The air procured was made to pass through caustic alkali. To obtain the oxygen, two pounds and a half of crystallized hyperoxymuriate of potassa were distilled, and the air was transferred through caustic alkali.

The volume of hydrogen employed was 25963.568 cubic inches, and the weight was 1039.358 grains.

The volume of oxygen was 12570.942, and the weight

was 6209.869 grains.

The total weight of both elastic fluids was 7249.227.

The weight of water obtained was 7244 grains, or 12 ounces 4 gros.45 grains.

The weight of water which should have been ob-

The weight of water which should have been ob-tained was 12 ounces 4 gros 49.287 grains. The deficit was 4.227 grains. The quantity of azotic air before the experiment was 415.256 cubic inches, and at the close of it 467. The excess after the experiment was consequently 51.744 cubic inches. This augmentation is to be attributed, the academicians think, to the small quantity of atmospheric air in the cylinders of the gasometers at the time the other airs were introduced. These additional 51 cubic inches could not arise from the hydrogen, for experiment showed, that it contained no acute air. Some addition of this last fluid, the experi-menters think, cannot be avoided, on account of the construction of the machine.

The water being examined, was found to be as pure as distilled water. Its specific gravity to distilled water was as 18671: 18670.

The decomposition of water is most elegantly ef-

fected by electricity.

The composition of water is best demonstrated by exploding 2 volumes of hydrogen and 1 of oxygen, in the eudiometer. They disappear totally, and pure water results. A cubic inch of this liquid, at 60°, weighs 252.52 grains, consisting of

28.06 grains hydrogen, and 224.46 oxygen. The bulk of the former gas is 1325 cubic inches. That of the latter is 662

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Hence there is a condensation of nearly two thousand volumes into one; and one volumes of oxygen. The prime equivalent of 662 volumes of oxygen. The prime of oxygen=1.0+ water is 1.125; composed of a prime of oxygen=1.0+ a prime of hydrogen = 0.125; or 9 parts by weight of water, consisting of 8 oxygen+1 hydrogen."

The simple waters are the following:

1. Distilled water. This is the lightest of all others, volumes into one; and one volume of water contains 662 volumes of oxygen. The prime equivalent of

1. Distiller water. This is menginess or an outer, containing neither solid nor gaseous substances in solution, is perfectly void of taste and smell, colourless and beautifully transparent, has a soft feel, and wets the fingers more readily than any other. It mixes uniformly with soap into a smooth opaline mixture, but may be added to a solution of soap in spirit of wine without injuring its transparency. The clearness of distilled water is not impaired by the most delicate of distinct water's not implaned by the most dencate chemical reagents, such as lime-water, a solution of barytes in any acid, nitrated silver, or acid of sugar. When evaporated in a silver vessel it leaves no residuum; if preserved from access of foreign matter desting in the ate, it most be been access of foreign matter. floating in the air, it may be kept for ages unaltered in vessels upon which it has no action, as it does not

these points are made use of as the standard ones for thermometrical division; and its specific weight being always the same under the mean pressure and tempe rature, it is employed for the comparative standard of

specific gravity

Pure distilled water can only be procured from water which contains no volatile matters that will rise in distillation, and continue still in union with the vapour tillation, and continue still in union with the vapour when condensed. Many substances are volatile during distillation, but most of the gases, such as common air, carbonic acid, and the like, are incapable of uniting with water at a high temperature: other bodies, however, such as vegetable essential oil, and, in general, much of that which gives the peculiar In general, much of that which gives the peculiar odour to vegetable and animal matter, will remain in water after distillation. So the steam of many animal and vegetable decoctions has a certain flavour which distinguishes it from pure water; and the aqueous exhalation from living bodies, which is a kind of distillation, has a similar impregnation.

To obtain distilled water perfectly pure, much stress was laid by former chemists on repeating the process sier, that rain water once distilled, rejecting the first and last products, was as pure a water as could be procured by any subsequent distillations.

Distilled water appears to possess a higher power than any other as a resolvent of all animal and vegetable matter, and these it holds in solution as little as possible altered from the state in which they existed in the body that yielded them. Hence the great practical utility of that kind of chemical analysis which presents the proximate constituent parts of these bodies, and which is effected particularly by the assistance of pure water. On the other hand, a saine, earthy, or otherwise impure water, will alter the texture of some of the parts, impair their solubility, produce material changes on the colouring matter, and become a less accurate analyzer on account of the

admixture of foreign contents

Distilled water is seldom employed to any extent in the preparation of food, or in manufactures, on account the preparation of food, or in manufactures, on account of the irouble of procuring it in large quantities; but for preparing a great number of medicines, and in almost every one of the nicer chemical processes that are carried on in the liquid way, this water is an essential requisite. The only cases in which it has been used largely as an article of druk, have been in those important trials made of the practicability of procuring it by condensing the steam of sea water by means of a simple apparatus adapted to a ship's boiler; and these have fully shown the ease with which a large quantity of fresh water, of the purest kind, may be had at sea, at a moderate expense, whereby one of the most distressing of all wants may be relieved. the most distressing of all wants may be relieved.

There are one or two circumstances which seem to There are one or two circumstances which seem show that water, when not already loaded with foreign matter, may become a solvent for concretions in urinary passages. At least, we know that very material advantage has been derived in these cases from very pure natural springs, and hence a course of distilled water has been recommended as a fair subject of experiment.

2. Rain water, the next in purity to distilled water, is that which has undergone a natural distillation from the earth, and is condensed in the form of rain. This the earth, and is condensed in the form of realists a water so nearly approaching to absolute purity as probably to be equal to distilled water for every purity as a single chemical experiments. The pose except in the nicer chemical experiments. foreign contents of rain water appear to vary according to the state of the air through which it falls. The ing to the state of the air through which it falls. The heterogeneous atmosphere of a smoky town will give some impregnation to rain as it passes through, and this, though it may not be at once perceptible on chemical examination, will yet render it hable to spontaneous change; and hence, rain water, if long kept, especially in hot climates, acquires a strong smell, becomes full of animalcula, and in some degree putrid. According to Margraaff, the constant foreign contents of rain water appear to be some traces of the nutriatic and nitric acids; but as this water is always very soft. It is admirably adapted for dissolving soap, or for the solution of alimentary or colouring matter, and it is solution of alimentary or colouring matter, and it is accordingly used largely for these purposes. The specific gravity of rain water is so nearly the same as that of distilled water, that it requires the most delicate instruments to ascertain the difference. Rain, that

falls in towns, acquires a small quantity of lime and calcareous matter from the mortar and plaster of the

3. Ice and snow water. This equals rain water in purity, and, when fresh melted, contains no air, which is expelled during freezing. In cold climates and in high latitudes, thawed snow forms the constant drink of the inhabitants during winter; and the vast masses of ice which float on the polar saes afford an abundant supply to the mariner. It is well known, that in a weak brine, exposed to a moderate freezing cold, it is only the watery part that congeals, leaving the unfrozen liquor proportionably stronger of the salt. The same happens with a dilute solution of vegetable acids, with fermented liquors, and the like; and advantage is taken of this property to reduce the saline part to a more concentrated form. Snow water has long lain under the imputation of occasioning those strumous swellings in imputation of occasioning those strumous swellings in the neck which deform the inhabitants of many of the Alpine valleys; but this opinion is not supported by any well-authenticated, indisputable facts, and is rendered still more improbable, if not entirely overturned, by the frequency of the disease in Sumatra, where ice and snow are never seen, and its being quite unknown in Chili and in Thibet, though the rivers of these coun-tries are chiefly supplied by the melting of the snow,

with which the mountains are covered.

4. Spring water. Under this comprehensive class are included all waters that spring from some depth beneath the soil, and are used at the fountain head, or beneath the soil, and are used at the following feet, at least before they have run any considerable distance exposed to the air. It is obvious that spring water will be as various in its contents as the substances that compose the soil through which it flows. When the ingrepose the soil through which it flows. When the ingredients are not such as to give any peculiar medical or sensible properties, and the water is used for common purposes, it is distinguished as a hard or soft spring, sweet or brackish, clear or turbid, and the like. Ordinary springs insensibly pass into mineral springs, as their foreign contents become more notable and up. common; though sometimes waters have acquired great

medical reputation from mere purity.

By far the greater number of springs are cold; but as they take their origin at some depth from the surface, and below the influence of the external atmosphere, and below the influence of the external atmosphere, their temperature is, in general, pretty uniform during every vicissitude of season, and always several degrees higher than the freezing point. Others, again, arise constantly hot, or with a temperature always exceeding the summer heat; and the warmth possessed by the water is entirely independent of that of the atmosphere,

and varies little, winter or summer.

One of the principal inconveniences in almost every One of the principal inconveniences in admost every spring water, is its hardness, owing to the presence of earthy salts, which, in by far the greater number of cases, are only the insipid substances, chalk, and selenite, which do not impair the taste of the water; while the air which it contains, and its grateful coolness, reder it a most agreeable, and generally a perfectly innocent drink; though sometimes, in weak stomachs, it is apt to occasion an uneasy sense of weight in that organ, followed by a degree of dyspepsia. The quantity of carthy salts varioes considerably: hut, in general, it anearthy salts varies considerably; but, in general, it appears that the proportion of five grains of these in the pint will constitute a hard water, unfit for washing with soap, and for many other purposes of household use or manufactures. The water of deep wells is always, ceteris paribus, much harder than that of springs which overflow their channel; for much agitation and ex-posure to air produce a gradual deposition of the calca-rous earth; and hence suring walf-roften incruss to a reous earth; and hence spring water often incrusts to a considerable thickness the inside of any kind of tube considerable thickness the inside of any kind of tube through which it flows, as it arises from the earth. The specific gravity of these waters is also, in general, greater than that of any other kind of water, that of the sea excepted. Springs that overflow their channel, and form to themselves a limited bed, pass insensibly into the state of stream or river water, and become thereby altered in some of their chemical properties.

5. River water.—This is in general much softer and more free from earthy salts than the last, but contains less air of any kind: for, by the agitation of a long current and in most cases a great increase of temperature.

rent, and in most cases a great increase of temperature, it loses common air and carbonic acid, and, with this last, much of the lime which it held in solution. The specific gravity thereby becomes less, the taste not so harsh, but less fresh and agreeable, and out of a hard

spring is often made a stream of sufficient purity for some streams, however, that arise from a clean sili-cious rock, and flow in a sandy or stony bed, are from the outset remarkably pure. Such are the mountain lakes and rivulets in the rocky districts of Wales, the source of the beautiful waters of the Dee, and number-less other rivers that flow through the hollow of every valley. Switzerland has long been celebrated for the purity and excellence of its waters, which pour in copious streams from the mountains, and give rise to some of the finest rivers in Europe. An excellent observer and naturalist, the illustrious Haller, thus speaks of the Swiss waters:-"Vulgaribus aquis Helvetia super omnes fere Europæ regiones excellit. Nusquam liquidas illas aquas et crystalli simillimas se mihi obtulisse memini postquam ex Helvetia excessi. Ex scopulis enim nostra per puros silices percolate nulla terra vitiantur." Some of them never freeze in the severest winter, the cause of which is probably, as Haller conjectures, that they spring at once out of a subterraneous reservoir so deep as to be out of the reach of frost; and during their short course, when exposed to day, they have not time to be cooled down from 53°, their original temperature, to below the freezing point.

Some river waters, however, that do not take their rise from a rocky soil, and are indeed at first considerably charged with foreign matter, during a long course, even over a rich cultivated plain, become remarkably pure as to saline contents, but often fouled with mud and vegetable or animal exuviæ, which are rather sus pended than held in true solution. Such is that of the Thames, which, taken up at London at low water, is a very soft and good water, and, after rest and filtration, it holds but a very small portion of any thing that could prove noxious or impede any manufacture. excellently fitted for sea-store; but it here undergoes a No water carried remarkable spontaneous change. to sea becomes putrid sooper than that of the Thames. to see becomes partial somer than that of the Fannes. When a cask is opened after being kept a month or two, a quantity of inflammable air escapes, and the water is so black and offensive as scarcely to be borne. Upon racking it off, however, into large earthen vessels (oil jars are commonly used for the purpose), and exposing it to the air, it gradually deposites a quantity of black slimy mud, becomes clear as crystal, and remarkably sweet and palatable. The Seine has as high a reputation in France, and appears from accurate experiments to be a river of great purity. It might be expected that a river which has passed by a large town, and received all its impurities, and been used by numerous dyers, tanners, hatters, and the like, that crowd to its hanks for the convenience of plenty of water, should thereby acquire such a foulness as to be very perceptible to chemical examination for a considerable distance below the town; but it appears, from the most accurate examination, that where the stream is at all considerable, these kinds of impurity have but little influence in permanently altering the quality of the water, especially as they are for the most part only suspended, and not truly dissolved; and, therefore, mere rest, and especially filtration, will restore the water to its original purity. Probably, therefore, the most accurate ehemist would find it difficult to distinguish water taken up at London from that procured at Hampton Court, after each has been purified by simple filtration. 6. Stagnated waters.—The waters that present the

greatest impurities to the senses, are those of stagnant pools, and low marshy countries. They are filled with the remains of animal and vegetable matter undergoing decomposition, and, during that process, becoming in part soluble in water, thereby affording a rich nutriment to the succession of living plants and insects which is supplying the place of those that perish. From the want of sufficient agitation in these waters, vegetation goes on undisturbed, and the surface be-comes covered with conferva and other aquatic plants and as these standing waters are in general shallow, they receive the full influence of the sun, which further promotes all the changes that are going on within them. The taste is generally vapid, and destitute of that freshness and agreeable coolness which distinguish spring water. However, it should be remarked, that stagnant waters are generally soft, and many of the impurities are only suspended, and therefore separable by fitration; and perhaps the unpalatableness of this drink has caused it to be in worse credit than it de-

serves, on the score of salubrity. The decidedly noxious effects produced by the air of marshes and stag nant pools, have been often supposed to extend to the internal use of these waters; and often, especially in hot climates, a residence near these places has been as much condemned on the one account as on the other; and, in like manner, an improvement in health has been as much attributed to a change of water as of air.

WATER-BRASH. See Pyrosis. Water-cress. See Sisymbrium nasturtium. Water-dock. See Rumex hydrolapathum. Water-flag, yellow. See Iris pseudacorus. Water-wermander. See Teucrum scordium. Water-germander. See Eupatorium. Water-hemp. Water-lily, white. See Nymphæa alba. Water-lily, yellow. See Nymphæa lutea. Water-riy, yettow. See Nymphak tated. Water-parsnip. See Stum nodiflorum. Water-zizania. See Zizania aquatica.

Waters, mineral. See Mineral waters.
WAVELITE. (So named after Dr. Wavell, who first discovered it at Barnstable, in Devonshire.) A mineral of a grayish-white colour, composed of alumina, 70; lime, 1.4; water, 26.2; as hard as fluor

WEDEL, GEORGE WOLFFGANG, was born in 1645, at Golzan in Lusatia, and graduated at Jena in 1667 where, after a temporary exercise of his profession at Gotha, he became medical professor; in which station he continued with reputation for almost half a century. He combined with his skull in medicine a considerable acquaintance with mathematics and philology, as well as with the oriental and classical languages. He was as with the oriental and classical languages. He was an associate to the Academy Natura Curiosorum, and to the Royal Society of Berlin, physician to several German sovereigns, a count palatine, and an imperial counsellor. Notwithstanding these high offices and numerous engagements, he was attentive to the poor, and assiduous in his literary labours. He is celebrated for his pharmaceutical knowledge, and his elegance of prescription, so that many of his compositions have been adopted in dispensatories. Of his works, besides been anoped in dispensationes. On his works, besides his academical dissertations, the principal are "Opiologia;" "Pharmacia in Artis formam redacta;" "De Medicamentorum Facultatibus;" "De Morbis Infanw. and "Exercitationes Medico-Philologica."
WELD. Woold. The Reseda luteola of Linnaus,

which is used as a vellow dye.

WEPFER, JOHN JAMES, was born in 1620, at Schaff-hausen, and after visiting several universities in Italy, graduated at Basil, and settled in his native place. His reputation was extensive there and in Germany, and he attained, by his dissections and experiments, a high rank among those who have contributed to improve medical science. In 1658, he published a celebrated work, entitled "Observationes Anatomica," &c., since often reprinted with the title of "Historia Apoplecti-corum." In an epistle "De Dubiis Anatomicis," he asserted the entire glandular structure of the liver, prior to Malpighi. Another valuable work is called "Cicutæ Aquaticæ Historia et Noxæ." His constitution was injured by attendance, at an advanced age, on the duke of Wurtemburg, and the imperial army under his command; and he was carried off by a dropsy in 1695. His papers were published by two of his grand-sons, in a work entitled "Observationes Medico-Prac-tice," &c. To the Ephemerides Natura Curicsorum he made several valuable communications, being a member of that secient member of that society

member of that society.

WERNERITE. Foliated scapolite.

WHARTON, Thomas, was born in Yorkshire in 1800, and educated at Cambridge. He afterward became a private tutor at Oxford: but on the commencement of the civil wars, he removed to London, and engaged in the practice of physic. On the surrender of Oxford to the parliament in 1646, he obtained a doctor's degree there, became a member of the College of Physicians, in Lundon, and and into considerable. of Physicians in London, and got into considerable practice. In 1652, he read lectures on the glands before the College; and he afterward published a work on that subject, entitled "Adenographia." The descripthat subject, tention "Adenographia." The descap-tions cannot be relied upon, being chiefly taken from buttes; yet there are some useful observations on the diseases of those organs. His name has been affixed to the sativity duets on the side of the tongue. WHEAT Tritions The cords of the Tritions

hibernum, and astivum, of Linnaus, are so termed. It contains, and it strongly froths, like champaign, when is to these plants, therefore, we are indebted for our bread, and the various kinds of pastry. Wheat is first ground between mill-stones, and then sifted to obtain rated into its three constituent parts, in the following manner. The flour is to be kneaded into a paste with water in an earthen vessel, and the water continue pouring upon it from a cock; this liquid, as it falls upon the paste, takes up from it a very fine white powder, by means of which it acquires the colour and consistency of milk. This process is to be continued till the water run off clear, when the flour will be sepa-Trated into three distinct parts: 1. A gray elastic matter that sticks to the hand, and on account of its properties has gained the name of the glutinous, or vegeto-animal part. 2. A white powder which falls to the bottom of the water, and is the faculum or starch. 3. A matter which remains dissolved in the water, and seems to be a sort of mucilaginous extract.

Flour, from whatever species of corn obtained, is likewise disposed to vinous fermentation, on account of its saccharine contents. The aptitude for fermentation of these mealy seeds increases if they be first tation of these mealy seeds increases if they be first converted into malt; insomuch as by this process, the gluten which forms the germ is separated, and the starchy part appears to be converted into saccharine matter. The making of malt, for which purpose barley and wheat are generally chosen, is as follows: The grains are put in the malting tub, and immersed in cold water, in a temperate and warm season, changing this fluid several times, especially in hot weather, and they are thus kept soaking till they be sufficiently soft to the touch. Upon this they are piled up in heaps on a roomy, clean, airy floor, where, by the heat spontaneously taking place, the vegetation begins, and the grains germinate. To cause the germination to go on grains germinate. To cause the germination to go on uniformly, the heaps are frequently turned. In this state the vegetation is suffered to continue till the germs have about two-thirds or three-fourths of the length of the corn. It is carried too far when the leafy germs have begun to sprout.

For this teason, limits are set to the germination by drying the mair, which is effected by transferring it to the kiln, or by spreading it about in spacious airy lofts. Dried in the last way, it is called air-dried malt; in the first, kiln-nalt. In drying this latter, care must be taken that it does not receive a burned smell, or be in part converted into coal.

From this malt, beer is made by extraction with

water and fermentation.

With this view, a quantity of malt freed from its germs, and sufficient for one intended brewing, is coarsely bruised by grinding, and in the mash-tub first well mixed with some cold, then scalded with hot water, drawn upon it from the boiler. It is afterward the scale of the property of the scale of th strongly and uniformly stirred. When the whole mass has stood quietly for a certain time, the extract, (mash,) or.sweetwort, is brought into the boiler, and the malt remaining in the tub is once more extracted by infusion with hot water.

This second extract, treated in like manner, is added

to the first, and both are boiled together.

This clear decoction is now drawn off, and called boiled wort. To make the beer more fit for digestion, and at the same time to deprive it of its too great and unpleasant sweetness, the wort is mixed with a decoction of hops, or else these are boiled with it. After which it ought to be quickly cooled, to prevent its transition into acetous fermentation, which would ensue if it were kept too long in a high temperature.

On this account the wort is transferred into the cooler, where it is exposed with a large surface to cold air, and from this to the fermenting tub, that by addition of a sufficient portion of recent yest it may begin to ferment. When this fermentation has proceeded to a due degree, and the yest ceases to rise, the beer is conveyed into casks placed in cool cellars, where it finishes its fermentation, and where it is well kept and preserved, under the name of barrelled beer, with the precaution of filling up occasionally the vacancy caused in the vessels by evaporation; or the beer is bot-tled before it has done fermenting, and the bottles are stopped a little before the fermentation is completely over. By so doing the bottled beer is rendered spark-ling. In this state it frequently bursts the bottles, by the disengagement of the carbonic acid gas which it

brought into contact with air on being poured into another vessel.

Beer well prepared should be limpid and clear, possess a due quantity of spirit, and excite no disagreeable sweet taste, and contain no disengaged acid. By these properties it is a species of vinous beverage, and is distinguished from wine in the strict sense, and other liquors of that kind, by the much greater quantity of mucilaginous matter which it has received by extraction from the malted grains, but which also makes it more nourishing. Brown beer derives its colour from malt strongly roasted in the kiln, and its bitterish taste from the hops. Pale beer is brewed from malt dried in the air, or bursham,
hops at all. See Beer.
Wheat, buck. See Polygonum fagopyrum.
wastern buck. See Polygonum divaricain the air, or but slightly roasted, with but little or no

Wheat, Indian. See Zea mays.

Wheat, Turkey. The Turkey wheat is a native of America, where it is much cultivated, as it is also in some parts of Europe, especially in Italy and Germany. There are many varieties, which differ in the colour of the grain, and are frequently raised in our gardens by way of curiosity, whereby the plant is well known. It is the chief bread-corn in some of the southern part of America, but since the introduction of rice into Carolina, it is but little used in the northern colonies. It makes a main part no of the ford of the propresent It makes a main part too of the food of the poor peo-ple in Italy and Germany. This is the sort of wheat mentioned in the book of Ruth, where it is said that Boaz treated Ruth with parched ears of corn dipped in Boaz treated Ruth with parcined ears of corn unipped in vinegar. This method of eating the roasted ears of Turkey wheat is still practised in the East; they gather in the ears when about half ripe, and having scorched them to their minds, eat them with as much satisfac-tion as we do the best flour-bread.

In several parts of South America they parch the ripe corn, never making it into bread, but grinding it be tween two stones, nix it with water in a calabash, and so eat it. The Indians make a sort of drink from this grain, which they call bici. This liquor is very windy and intoxicating, and has nearly the taste of sour small beer: but they do not use it in common, being too lazy to make it often, and therefore it is chiefly kept for the celebration of feasts and weddings, at which times they mostly get intolerably drunk with it. The manner of making this precious beverage, is to steep a parcel of corn in a vessel of water, till it grows sour, parcet of corn in a vessel of water, bit it grows sour, then the old women being provided with calabashes for the purpose, chew some grains of the corn in their mouths, and spitting it into the calabashes, empty them, spittle and all, into the sour liquor, having previously drawn off the latter into another vessel.

The chewed grain soon raises a fermentation, and when this ceases, the liquor is let off from the dregs, and set by till wanted. In some of the islands in the South Sea, where each individual is his own lawgiver, it is no uncommon thing for a near relation to excuse

a murderer for a good drunken bout of ciri

[Turkey wheat is the Indian corn of America. It makes a rich, wholesome, and nutritious bread-corn, and may be cooked in a greater variety of ways than any other grain. Dr. Hooper is mistaken in supposing it is but little used in the northern parts of the United States (formerly colonies). There is not a farm or plantation in any part of the country without a portion planted in Indian corn. A portion of Indian meal planted in Indian corn. A potential of indian mean mixed with wheat or rye flour, improves the bread made in that way. A.]
WHET-SLATE. A greenish gray-coloured mineral, used to sharpen ofteel instruments.
WHEY. The fluid part of milk which remains after

the curd has been separated. It contains a saccharine matter, some butter, and a small portion of cheese.

WHISKEY. A dilute alkohol obtained by distilling

(Whiskey is obtained in this country from rye, Indian corn, potatoes, &c. It is a spirit which, when concentrated by repeated distillation, produces alkohol, and may be obtained from various fruits, roots, seeds, &c. See Fruits, affording spirit. A.]
WHISPERING: A lowness of speech, caused by

uttering the words so feebly, as not to produce any

vibration of the larynx.

White-swelling. See Arthropuosis, and Hydarthrus,

WHITES. See Leucorrhæa. WHITING. See Gadus.

Whortleberry, bears'

See Arbutus uva ursi. Whortleberry, red. See Vaccinium vitis idea

WHYTT, ROBERT, was born in 1714, at Edinburgh, where he studied physic, and after visiting the medical schools at London, Paris, and Leyden, settled in the exercise of his profession, became a fellow, then president of the college, and chairman of the Institutions of Medicine in that university. As a medical practitioner and teacher, and also as a writer, he acquired deserved celebrity. The first of his publications was an "Essay on the Vital and other involuntary Motions of Animals, 1751, in which he opposed the Stahlian Theory, and ascribed them to the operation of stimuli. Four years after, his "Physiological Essays" appeared, in which he supposes the circulation assisted by an oscillatory motion of the minute vessels, and treats of sensibility and irritability. He also wrote on the Use of Limewater in Calculous Complaints; and on Nervous Diseases; and contributed likewise some papers to the Edinburgh Essays. The Observations on Hydrocephalus, were published after his death, which occurred in 1766, after labouring long under a complication of chronic complaints.

WIDOW-WAIL. See Daphne mezereum. See Dancus sylvestris. Wild carrot. Wild cucumber. See Momordica elaterium.
[Wild hoarhound. See Eupatorium teucrium. Wild hoarhound. See Eupatorian to...
Wild lettuce. See Lactuca virosa. A.]
Wild navew. See Brassica napus.

Wild navev. See Bacauca virosa. A.]
Wild navev. See Brassica napus.
WILLIS, Thomas, was born in Wiltshire, about the year 1621, and entered at Oxford, with a view to the clerical profession; but he afterward changed to physic, took his bachelor's degree in 1646, and commenced practice at the university. He distinguished himself by his steady attachment to the church of England, and also by his love of science, so that he became one of the first members of that philosophical society at Oxford, which laid the foundation of the Royal Society of Lon-He was ambitious of excelling as a chemist, and published, in 1659, a treatise on Fermentation, and another on Fever, with a Dissertation on the Urine. After the Restoration he was appointed to the Sedleian pro-fessorship of Natural Philosophy, and received his doc-tor's degree. In 1664, he published his celebrated work "Cerebri Anatome," with a description of the nerves; which was followed, after three years, by his "Patho-logia Cerebri et Nervosi Generis," in which he treats logia Cerebri et Nervosi Generis," in which he treats of Convulsive Diseases, and the Scurvy. In the mean of Convulsive Diseases, and the Scurvy. In the mean time he had settled in London, and being nominated a physician in ordinary to the king, was advancing to the first rank in practice. His next publication was on Hysteria and Hypochondriasis. In 1672, he produced another work, "De Anima Brutorum;" which he supposed like the vital principle in man of a corporeal nature. The year following he began to print his "Pharmaceutice Rationalis," which he did not live to complete being carried of the a best trained in the following he began to print his "Pharmaceutice Rationalis," which he did not live to complete being carried of the a best trained in the following here. plete, being carried off by a pleurisy in his fifty-fourth year. His works engaged great attention at first, and are still admired, though modern improvements have diminished their value. They are written in an elegant Latin style. See Salix.

WILLOW. See Saitz.
Willow, crack. See Saits fragilis.
Willow, sweet. See Myrica gale.
Willow, white. See Saits fragilis.
Willow, horb. See Lythrum salicaria.
Willow-horb, rosebay. See Epilobium angustifo-

Willow-leaved oak. See Quercus phellos.
WINE. Vinum. "Chemists give the name of wine in general to all liquors that have become spirituous by fermentation. Thus cider, beer, hydromei or mead, and other similar liquors, are wines.

The principles and theory of the fermentation which produces these liquors are essentially the same

All those nutritive, vegetable, and animal matters which contain sugar ready formed, are susceptible of the spirituous fermentation. Thus wine may be made of all the juices of plants, the sap of trees, the infusions and decoctions of farinaceous vegetables, the milk of frugiverous animals; and, lastly, it may be made of all ripe succulent fruits; but all these substances are not equally proper to be changed into a good and generous

As the production of alkohol is the result of the spi-

rituous fermentation, that wine may be considered as essentially the best, which contains most alkohol. But of all substances susceptible of the spirituous fermentaof all substances susceptine of the spintons transition, none is capable of being converted into so good wine, as the juice of the grapes of France, or of other countries that are nearly in the same latitude, or in the same temperature. The grapes of hotter countries, and even those of the southern provinces of France, do indeed furnish wines that have a more agreeable, that is, more of a saccharine taste; but these wines, though they are sufficiently strong, are not so spiritous as those of the provinces near the middle of France; at least from these latter wines the best vinegar and brandy are made. As an example, therefore, of spirit-uous fermentation in general, we shall describe the method of making wine from the juice of the grapes of France.

This juice, when newly expressed, and before it has begun to ferment, is called must, and in common language sweet wine. It is turbid, has an agreeable and very saccharine taste. It is very laxative: and when drunk too freely, or by persons disposed to diarrhoas, it is apt to occasion these disorders. Its consistence is

it is any to occasion these disorders. Its consistence is somewhat less thaid than that of water, and it becomes almost of a pitchy thickness when dried.

When the must is pressed from the grapes, and but into a proper vessel and place, with a temperature between fifty-five and sixty degrees, very sensible effects are produced in it, in a shorter or longer time accordare produced in it, in a shorter or longer time accora-ing to the nature of the liquor, and the exposure of the place. It then swells, and is so rarefied, that it fre-quently overflows the vessel containing it, if this be nearly full. An intestine motion is excited among its parts, accompanied with a small hissing noise and evident ebullition. The bubbles rise to the surface, and at the same time is disengaged a quantity of carbonic acid of such purity, and so subtle and dangerous, that it is capable of killing instantly men and animals exposed to it in a place where the air is not renewed. The skins, stones, and other grosser matters of the grapes, are buoyed up by the particles of disengaged air that adhere to their surface, are variously agitated, and are raised in form of a scum, or soft and spongy crust, that covers the whole liquor. During the fermentation, this crust is frequently raised, and broken by the air disengaged from the liquor which forces its way through it; afterward the crust subsides, and becomes entire as before

These effects continue while the fermentation is brisk, and at last gradually cease: then the crust, being no longer supported, falls in pieces to the bottom of the liquor. At this time, if we would have a strong and generous wine, all sensible fermentation must be stopped. This is done by putting the wine into close vessels, and carrying these into a cellar or other cool

After this first operation, an interval of repose takes place, as is indicated by the cessation of the sensible effects of the spirituous fermentation; and thus enables us to preserve a liquor no less agreeable in its taste, than useful for its reviving and nutritive qualities, when

drunk moderately.

If we examine the wine produced by this first fermentation, we shall find, that it differs entirely and essentially from the juice of grapes before fermentation. Its sweet and saccharine taste is changed into one that is very different, though still agreeable, and somewhat spirituous and piquant. It has not the laxative quality of must, but affects the head, and occasions, as is well known, drunkenness. Lastly, if it be sions, as is well known, drunkenness. Lastly, if it be distilled, it yields, instead of the insipid water obtained from must by distillation with the heat of boiling water, a volatile, spirituous, and inflammable liquor, called split of wine, or alkohol. This spirit is consequently a new being, produced by the kind of fermentation, called the vinous or spirituous.

When any liquor undergoes the spirituous fermentation, all its parts seem not to ferment at the same time, otherwise the fermentation would probably be very quickly completed, and the appearances would be much more striking: hence, in a liquor much disposed to fermentation, this motion is more quick and simultaneous than in another liquor less disposed. Experience has shown, that a wine, the fermentation of which is very slow and tedious, is never good or very spirituous; and therefore, when the weather is too cold, the fermenta-

the wine is made. A proposal has been made by a person very intelligent in economical affairs, to apply a greater than the usual heat to accelerate the fermentation of the wine, in those years in which grapes have not been sufficiently ripened, and when the juice is not suffi-

ciently disposed to fermentation.

A too hasty and violent fermentation is perhaps also hurtful, from the dissipation and loss of some of the spirit; but of this we are not certain. However, we may distinguish, in the ordinary method of making wines of grapes, two periods in the fermentation, the first of which lasts during the appearance of the sensible effects above mentioned, in which the greatest number of fermentable particles ferment. After this first effort of fermentation, these effects sensibly diminish, and ought to be stopped, for reasons hereafter to be mentioned. The fermentative motion of the liquors then ceases. The heterogeneous parts that were suspended in the wines by this motion, and render it muddy, are separated and form a sediment, called the lees; after which the wine becomes clear; but though the operation is then considered as finished, and the fermentation apparently ceases, it does not really cease; and it ought to be continued in some degree, if we would have good wine.

In this new wine a part of the liquor probably remains that has not fermented, and which afterward ferments, but so very slowly, that none of the sensible effects produced in the first fermentation are here per-The fermentation, therefore, still continues in the wine, during a longer or shorter time, although in an imperceptible manner; and this is the second period of the spirituous fermentation, which may be called the imperceptible fermentation. We may easily perceive that the effect of this imperceptible fermentation is the gradual increase of the quantity of alkohol. It has also another effect no less advantageous, namely, the separation of the acid salt called tartar from the wine. This matter is, therefore, a second sediment. that is formed in the wine, and adheres to the sides of the containing vessels. As the taste of tartar is harsh and disagreeable, it is evident that the wine, which by means of the insensible fermentation has acquired more alkohol, and has disengaged itself of the greater part of its tartar, ought to be much better and more agreeable; and for this reason chiefly old wine is universally preferable to new wine.

But insensible fermentation can only ripen and meliorate the wine, if the sensible fermentation have regularly proceeded, and been stopped in due time. We know certainly that if a sufficient time have not been allowed for the first period of the fermentation, the unfermented matter that remains, being in too large a quantity, will then ferment in the bottles, or close vessels, in which the wine is put, and will occasion effects so much more sensible, as the first fermenta-tion shall have been sooner interrupted: hence these wines are always turbid, emit bubbles, and sometimes break the bottles from the large quantity of air disen-

gaged during the fermentation.

We have an instance of these effects in the wine of Champaign, and in others of the same kind. sensible termentation of these wines is interrupted, or sensing termenation of these which is interrupted, or rather suppressed, that they may have this sparkling quality. It is well known that these wines make the corks fly out of the bottles: that they sparkle and froth when they are poured into glasses; and lastly, that they have a taste much more fively and more piquant than wines that do not sparkle; but this sparkling quality, and all the effects depending on it, are only caused by a considerable quantity of carbonic acid gas, which is disengaged during the confined fermentation that the wine has undergone in close vessels. This air, not having an opportunity of escaping, and of being dissipated as fast as it is disengaged, and being interposed between all the parts of the wine, combines in some measure with them, and adheres in the same manner as it does to certain mineral waters, in which it produces nearly the same effects. When this air is entirely disengaged from these wines, they no longer sparkle, they lose their piquancy of taste, become mild, and even almost insipid.

Such are the qualities that wine acquires in time, when its first fermentation has not continued sufficiently long. These qualities are given purposely to certain kinds of wine, to indulge taste or caprice; but such wines are supposed to be unfit for daily use. Wines for daily use ought to have undergone so completely the sensible fermentation, that the succeeding fermentation shall be insensible, or at least exceedingly little perceived. Wine, in which the first fermentation has been too far advanced, is liable to worse inconveniences than that in which the first fermentation has been too quickly suppressed; for every fermenta-ble liquor is, from its nature, in a continual intestine motion, more or less strong according to circumstances, from the first instant of the spirituous fermentation, till it is completely purified: hence, from the time of the completion of the spirituous fermentation, or even before, the wine begins to undergo the acid or acetous fermentation. This acid fermentation is very slow and insensible, when the wine is included in very close vessels, and in a cool place; but it gradually advances, so that in a certain time the wine, instead or being improved, becomes at last sour. This evil cannot be remedied; because the fermentation may advance, but cannot be reverted.

Wine-merchants, therefore, when their wines become sour, can only conceal or absorb this acidity by certain substances, as by alkalies and absorbent earths. these substances give to wine a dark-greenish colour, and a taste which, though not acid, is somewhat disagreeable. Besides, calcareous earths accelerate considerably the total destruction and putrefaction of the wine. Oxides of lead, having the property of forming with the acid of vinegar a salt of an agreeable saccharine taste, which does not alter the colour of the wine, and which besides has the advantage of stopping fermentation and putrefaction, might be very well employed to remedy the acidity of wine, if lead and all its preparations were not pernicious to health, as they occasion most terrible colies, and even death, when taken internally. We cannot believe that any wine-merchant, knowing the evil consequences of lead, merchant, knowing the evil consequences of lead, should, for the sake of gain, employ it for the purpose mentioned; but if there be any such persons, they must be considered as the poisoners and murderers of the public. At Alicant, where very sweet wines are made, it is the practice to mix a little lime with the grapes before they are pressed. This, however, can only neutralize the acid already existing in the grapes. tralize the acid already existing in the grape.

If wine contain litharge, or any other oxide of lead, it may be discovered by evaporating some pints of it to dryness, and melting the residuum in a crucible, at the bottom of which a small button of lead may be found after the fusion: but an easier and more expeditious proof is by pouring into the wine some liquid sulphuret. If the precipitate occasioned by this addition of ret. If the precipitate occasioned by the adduction of the sulphuret be white, or only coloured by the wine, we may know that no lead is contained in it; but it the precipitate be dark coloured, brown, or blackish, we may conclude, that it contains lead or iron.

The only substances that cannot absorb or destroy, but cover and render supportable the sharpness of wine, without any inconvenience, are, sugar, honey, and other saccharine alimentary matters; but they can and other sacchaine american matters, but they can succeed only when the wine is very little acid, and when an exceeding small quantity only of these sub-stances is sufficient to produce the desired effect; other-wise the wine would have a sweetish, tart, and not agreeable taste.

From what is here said concerning the acescency of wine, we may conclude that when this accident happens, it cannot by any good method be remedied, and that nothing remains to be done with sour wine but to sell it to vinegar-makers, as all honest wine-merchants do.

As the must of the grape contains a greater propor-As the must of the grape contains a greater proportion of tartar than our currant or gooseberry julces do, Dr. Ure has been accustomed, for many years, to recommend, in his lectures, the addition of a small portion of that salt to our must, to make it ferment into a more genuine wine. Dr. McCulloch has lately prescribed the same addition in his popular treatise on the cot of making rine. the art of making wine.

The following is Brande's valuable table of the quantity of spirit in different kinds of wine:

|    |             |     |       | Pro   | portion of |
|----|-------------|-----|-------|-------|------------|
|    |             |     |       | Spira | per cent   |
|    | 7.          |     |       | EN    | measure,   |
| I. | Lissa       | -   |       |       | 26.47      |
|    | Ditto       |     |       |       | 94 35      |
|    | Average.    |     |       |       |            |
| 0  | Daverage.   | 100 |       | PA 0  | 25.41      |
| 2. | Raisin wine |     |       |       | 26.40      |
|    | Ditto       |     |       |       | 95 77      |
|    | Ditto       |     | 444 1 |       | 25.7       |

## WIN

|     | Raisin wine   | 23.20           | Ditto (Edinburgh)   G.29   |
|-----|---|-----------------|--|
| 2   | Morania Average   | 25.12<br>26.30  | Ditto (Dorchester)   |
| e,  | Ditto   | 25.05           | 49. Brown Stout 6.80   |
|     | Average   | 25.09           | 49. Brown Stoul     4.20       50. Lendon Porter (average)     4.20       51. Ditto small beer (ditto)     1.28       52. Brandy     53.39       53. Rum     53.68       54. Gin     51.60       54.22     54.22   |
| 4.  | Madeira   | 24.42           | 51. Ditto small beer (ditto) 53 20   |
|     | Ditto   | 23.93           | 52. Brandy 53.68   |
|     | Ditto (Sircial)   | 21.40<br>19.24  | 53. Run  |
|     | Ditto Ditto (Sircial) Ditto Average   | 22.27           | 54. Gin. 55. Scotch whiskey. 56. Irish ditto. 53.90°  The wines principally used in medicine are, the vinum album hispanicum, or sherry, vinum canarium, canarium, or she wine, the vinum thenanum, or Rhenish.  |
| 5.  | Currant wine  | 20.55           | 56. Irish ditto 53.90°   |
| 6.  | Sherry  | 19.81           | The wines principally used in medicine are, the  |
|     | Currant wine  | 19.83           | canary or sack wine, the vinum thenanum, or Rhenish  |
|     | Ditto   | 18.79<br>18.25  | wine, and the vinum rubrum, or port wine. These  |
|     | Ditto   | 19.17           | differ from each other in the proportion of their con-   |
| 7.  | Teneriffe   | 19.79           | stituent principles, and particularly in that of alkohol,  |
| 8.  | Colares   | 19.75           | which they contain. The quaintes of wines depend   |
|     |   | 19.70<br>19.75  | canary or sack wine, the vinum rhenanum, or Rhenish wine, and the vinum rubrum, or port wine. These differ from each other in the proportion of their constituent principles, and particularly in that of alkhold, which they contain. The quadrics of wines depend not only upon the difference of the grapes, as containing more or less of saccharine juice and the acid matter which accompanies it, but also upon circumstances attending the process of fermentation. New wines are  |
| 11. | Constantia, white Ditto, red. Lisbon  | 18.92           | ter which accompanies it, but also upon circumstances  |
| 12. | Lisbon  | 18.94           | attending the process of fermentation. New wines are   |
| 13. | Malaga (1666)   | 18.94           | attending the process of termentation. New which are liable to a strong degree of acescency when taken into the stomach, and thereby occasion much flatulency and cructations of acid matter; heartburn and violent the control of the process are also often pro-   |
| 14. | Bucellas  | 18.49<br>22.30  | and expectations of said matter; hearthurn and violent   |
| 10. | Ditto   | 18.40           | pains in the stomach from spasms are also often pro-   |
|     | AverageCape MuschatCape Madeira   | 20.35           | and cructations of actu mater, he actually an arrange pains in the stomach from spasms are also often produced; and the acid matter, by passing into the intestines and mixing with the bile, is apt to occasion collections of the produced o |
| 16. | Cape Muschat  | 18.25           | tines and mixing with the bile, is apt to occasion colics  |
| 17. | Cape Madeira  | 22.94<br>20.50  | or excite diarrheas. Sweet wines are likewise more disposed to become acescent in the stomach than   |
|     | Ditto   | 18.11           | others: but as the quantity of alkohol which they con-   |
|     | Ditto   | 20.51           | others; but as the quantity of alkohol which they contain is more considerable than appears sensibly to the  |
| 18. | Grape wine  | 18.11           | taste, their acescency is thereby in a great measure   |
| 19. | Grape wine  | 19.20           | taste, their acescency is thereby in a great measure counteracted. Red port, and most of the red wines, have an adstringent quality, by which they strengthen the stomach, and prove useful in restaining immode-  |
|     | Ditto   | 18.10<br>18.65  | the stomach and prove useful in restraining immode-  |
| 511 | Vidonia   | 19.25           | rate evacuations: on the contrary, those which are of  |
| 21. | Alba Flora  | 17.26           | an acid nature, as Rhenish, pass freely by the kidneys,  |
| 22. | Alba Flora  | 17.20           | rate evacuations; on the contrary, those which are of an acid nature, as Rhenish, pass freely by the kidneys, and gently loosen the belly. But this, and perhaps all the thin or weak wines, though of an agreeable flavour, the thin or weak wines, though of an agreeable flavour,   |
| 23. | White Hermitage   | 17.43<br>19.00  | yet as containing little alkohol, are readily disposed to  |
| 24. | Rousillon   | 17.26           | become acid in the stomach, and thereby to aggravate   |
|     | Average   | 18.13           | all arthritic and calculous complaints, as well as to pro-   |
| 25. | Claret  | 17.11           | duce the effects of new wine. The general effects of   |
|     | Ditto   | 16.32<br>14.08  | wine are, to stimulate the stomach, exhilarate the spi-  |
|     | Ditto   | 12.91           | rits, warm the liabit, quicken the circulation, promote perspiration, and, in large quantities, to prove intoxicating, and powerfully sedative. In many disorders, wine is universally admitted to be of important service,  |
|     | Average   | 15.10           | cating, and powerfully sedative. In many disorders,  |
| 26. | Malmsey MadeiraLunelSheraaz   | 16.40           | wine is universally admitted to be of important service,   |
| 27. | Lunel   | 15.52           | and especially in levers of the typhus kind, or of a pu-   |
| 28. | Sheraaz   | ·15.52<br>15.28 | trid tendency; in which it is found to raise the pulse, support the strength, promote a diaphoresis, and to  |
| 30. | Syracuse Squerne Sutterne Surgundy Ditto Ditto  | 14.22           | resist putrefaction; and in many cases it proves of  |
| 31. | Burgundy  | 16.60           | more immediate advantage than the Peruvian bark.   |
|     | Ditto   | 15.22           | Delirium, which is the consequence of excessive irri-  |
|     | Ditto   | 14.53<br>11.95  | tability, and a defective state of nervous energy, is often entirely removed by the free use of wine. It is  |
|     | Ditto   | 14.57           | also a well-founded observation, that those who indulge  |
| 32. | Hock  | 14.37           | in the use of wine are less subject to fevers of the ma  |
|     | Ditto   | 13.00           | in the use of wine are less subject to fevers of the ma<br>lignant and intermittent kind. In the putrid sore throat,   |
|     | Ditto (old in cask)   | 8.88            | in the small-pox, when attended with great debility  |
| 23  | Nice  | 12.08<br>14.63  | in the small-pox, when attended with great debility and symptoms of putridity, in gangrenes, and in the plague, wine is to be considered as a principal remedy; and in almost all cases of languor, and of great prostration of strength, wine is experienced to be a more grateful design.  |
| 24  | Dorono  | 12 00           | and in almost all cases of languor, and of great pros-   |
| 35. | Tent  | 13.30           | tration of strength, wine is experienced to be a more  |
| 36. | Champaign (still)   | 13.80<br>12.80  | graterur and emicacious cordial than can be rurmsned   |
|     | Ditto (red)   | 12.56           | from the whole class of aromatics. WING. See Ala.  |
|     | Ditto (ditto)   | 11.30           | WINSLAW LANGE RESTAURTS THE Chorn in 1660 in   |
|     | Tent. Champaign (still) Ditto (sparkling). Ditto (red) Ditto (ditto).  Average.             | 12 61           | the isle of Funen, and having studied a year under<br>Borrichius, was sent with a pension from the king of<br>Denmark, to seek improvement in the principal uni-<br>versities of Funen.  |
| 37  | Red Hermitage   | 12.32<br>13.94  | Denmark to seek in with a pension from the king of   |
| 33  | Ditto   | 12.80           | versities of Europe. In 1698, he became a puril of the   |
|     |   | 13.37           | celebrated Duverney, at Paris, where he was induced  |
| 39  | Tuestianas  | 12.79           | versities of Europe. In 1698, he became a pupil of the celebrated Duverney, at Paris, where he was induced to abjure the Protestant religion; and the patronage of Bossuer who converted his   |
| 40  | . Cote Rotie  | 12.32<br>11.84  | gree of doctor in 1705. He afformed for him the de-  |
| 41  | Cote Rotie Gooseberry wine Orange wine—average of six samples made by a London manufacturer | 11.01           | Bossuet, who converted him, procured for him the de-<br>gree of doctor in 1705. He afterward read lectures of<br>anatomy and surgery at the Royal Gardens; and in<br>1743 was promoted to the professorship in that institu-<br>tion. In the mean time, he commission  |
| 4%  | made by a London manufacturer   | 11.26           | 1743 was promoted to the professorship in that inciting  |
| 43  | . Tokay   |                 | tion. In the mean time, he communicated several  |
| 44  | . Tokay   | 9.87<br>9.87    | papers on anatomical and physiological subjects to the<br>Academy of Sciences, by whom, as well as by the<br>Royal Society of Berlin, he was admitted an associate.  |
|     |   | 5.21            | Royal Society of Berlin, he was admissed as by the   |
| AG  |   | 7.26<br>7.32    | His great work, mentioned by Haller as superseding all   |
| 47  | . Mead  | 7.32            | former compositions of anatomy, and entitled "Expo-<br>sition Anatomique de la Structure du Corps Humain."   |
| 48  | Ale (Burton)  | 8.88            | I sition Anatomique de la Structure du Corps Humain."  |

first appeared at Paris in 1732, 4to. It was frequently reprinted, and translated into various languages; and is still regarded as of standard authority. It was intended as a plan of a larger work, which, however, he did not finish. He reached the edvanced age of nmety-one.

Winter-bark. See Winteranus cortex.

Winter-cherry. See Physalis alkekengi. WINTE'RA. (Named after Captain Winter, who brought the bark from the straits of Magellan in 1579, and introduced it to the knowledge of physicians as useful in scurvy, &cc.)

WINTERA AROMATICA. The systematic name of the winter-bark tree. The bark is called Cortex winter-a-Winter-dark tree. The dark is called Cortex Wintera-nus; Cortex magallanicus; Cortex canella alha; and the tree, Winteranus spurius; Canello cubana; Win-terania canella, and Winteria aromatica—pedunculis aggregatis terminalibus, pistalis quataor, of Linnaus. It is a native of the West Indies. The bark is brought into Europe in long quilts, somewhat thicker than cinnamon. Their taste is moderately warm, aromatic, and hitterish, and of an agreeable smell somewhat resembling that of cloves. alba has been supposed to possess considerable me-dicinal powers in the cure of scurvy and some other complaints. It is now merely considered as a useful and cheap aromatic, and is chiefly employed for the purpose of correcting and rendering less disagreeable the more powerful and nauseous drugs; with which view it is used in the tinctura amara, vinum amarum, vinum rhæi, &c. of the Edinburgh Pharmacopæia.

WINTERANUS CORTEX. See Wintera aromatica. WINTERA'NUS SPURIUS. See Canella alba.

WINTER'S USS SPERIOS. See Canacta and ...
[WINTER GREEN See Pyrola umbellata. A.]
WISEMAN, RICHARD, was first known as a surgeon in the civil wars of Charles I., and accompanied
Prince Charles, when a fugitive, in France, Holland,
and Flanders. He served for three years in the Spanish and Flanders. He served for three years in the Spanish navy, and, returning with the prince to Scotland, was made prisoner in the battle of Worcester. After his liberation in 1652, he settled in London. When Charles II. was restored, he became eminent in his profession, and was made one of the sergeant surgeons to the king. In 1676, he appears, from the preface this works, to have been a sufferer by ill health for twenty years: but the time of his death is not known. The result of his experience was given in "Several Surgical Treatises on Tumours, Ulcers, Diseases of the Apus, Serofula, Wounds, Gunshot Wounds, Frac-tures and Luxations, and Syphilis." He seems to have given a faithful account of more than six hundred cases, recording his failures as well as his cures. advocated the efficacy of the royal touch in scrofula, though the fallacy is evident even from his own narration. His writings have long been regarded as standard authority

WITHERING, WILLIAM, was born in 1741, and finished his medical education at Edinburgh, where he took his degree at twenty-five. From Stafford, where he first settled and married, he removed to Birmingham, and speedily obtained a very extensive practice l his skill and assiduity, without neglecting his scientific pursurs, which were chiefly in botany and chemistry.

He was author of several valuable publications: "A Betanical Arrangement of British Plants," which appeared at first in 1776, in two volumes, 8vo., but progressively increased to four; a translation of Berg-man's "Sciagraphia Regni Mineralis;" and some chemical and mineralogical papers contributed to the Royal Society, of which he was a fellow. "Account of the Scarlet Fever, &c.;" "Account of the Foxglove," with Practical Remarks on the Dropsy and other Diseases, published in 1785. His lungs being weak, he found it necessary, in the winter of 1793, to go to Lisbon, and afterward to relax from his professional overlage. His death sequent is 1700.

sional exertions. His death occurred in 1799.
WITHERITE. See Heavy-spar. WOAD. See Isatis tinctoria.
WOLFRAM. An ore of tungsten.
WOLF'S BANE. See Acondum napellus. WOMB. See Uterus. Womb, inflammation of. See Hysteritis. Wood-louse. See Oniscus asellus. Wood-sorrel. See Oxalis acetosella. Wood-sornel. See Hornstone.

Then passing some time on the Continent, he settled near his native place, and practised there for five or six years. He next came to London, and was soon appointed a physician to the Middlesex Dispensary. In 1790, he published the first part, which was afterward completed in four quarto volumes, of a highly valuable work, entitled "Medical Botany." The folvaluable work, entitled "Medical Botany," The fol-lowing year he was elected physician to the Small-pox Hospital; and in executing the duties of that office he displayed the highest zeal. He gave a manifest proof of his attention to the subject, by publishing in 1796 the first part of a "History of the Small-pox in Great Britain, &c.;" but the discovery of vaccination superseded the necessity of completing that work. Dr. Woodville was duly impressed with the importance of what had been announced by Dr. Jenner: but feeling a proper degree of skepticism at tirst, he was anxious to investigate the practice fully, before he gave it his sanction.
Unfortunately he was led into an error at the outset, by not keeping in recollection, that the atmosphere of the hospital was loaded with variolous contagion, whence some unpleasant results appeared; but being suggested to him, he was induced, on more mature consideration, strenuously to advocate the practice of vaccination; and by the excellent opportunities he enjoyed, he contributed very materially to its rapid

woodbward, John, was born in Derbyshire in 1664, and put apprentice to some trade in London; but evincing an ardour for science, Dr. Barwick took him into his family, and for four years instructed him in medicine and anatomy; after which he procured him the medical professorship at Gresham College. He published about this time an essay towards a Natural History of the Earth, which, though executed without sufficient preparation, procured his election into the Royal Society. In 1695, he was created M.D. by Archbishop Tenison, and the year after obtained the same degree from Cambridge; whence he was admitted into the Cambridge. into the College of Physicians as a fellow, in 1702. into the College of Physicians as a fellow, in 1702. He however pursued his inquiries into natural history and antiquities for some time with great zeal. In 1718, he published a work entitled "The State of Physic and of Diseases," containing some fanciful theories, which were ably confuted by Dr. Freind, both ludicously and seriously. He died at Gresham College in 1727, hequeathing his personal property to the University of Cambridge, for the endowment of an annual lectureship, on some subject taken from his own writings. Soon after his death, a catalogue of his fossils was published in 1737, his "Select Cases and Consultations in Physic," containing some valuable observations. the supposed the vital principle to reside not in the nerves, but in the blood, and other parts of the body; and he made many experiments to establish the vis

Woody nightshade. See Solanum dulcamara.

WORL. See Verticillus

WORM. Vermis. There are several kinds of animals which infest the human body. Their usual division is into those which inhabit only the intestinal canal, as the ascarides, &c.; and those which are found in other parts, as hydatids, &c. Such is the nature and office of the human stomach and intestines, that insects and worms, or their ovula, may not unfrequently be conveyed into that canal with those things that are continually taken as food; but such insects, or worms, do not live long, and seldom, if ever, generate in a situation so different from their natural one. Besides these, there are worms that are never found in any other situation than the human stomach or intestines, and which there generate and produce their species. Thus it appears that the human stomach and intestines are the seat for animalcula, which are translated from their natural situation, and also for worms proper to them, which live in no other situation.

First Class. This contains those which are gene

rated and nourished in the human intestinal canal, and

which there propagate their species.

Second Class, comprehends those insects or worms that accidentally enter the human prime viæ ab extra, and which never propagate their species in that canal, but are soon eliminated from the body. Such are see veral species of Scarabæi, the Lumbricus terrestria WOODVILLE, WILLIAM, was born at Cockermouth in 1752. After serving a short apprenticeship to an apothecary he graduated at Edinburgh in 1775. The consideration of the first class belongs to

the physician, which, from the variety it affords, may be divided into different orders, genera, and species. Order I. Round worms.

Genus I. Intestinal ascarides

Character. Body round, head obtuse, and furnished with three vesicles.

Species 1. Ascaris lumbricoides. The long round worm, or lumbricoid ascaris

Character. When full grown, a foot in length. Mouth triangular.

2. Ascaris vermicularis. The thread or mawworm.

Character. When full grown, half an inch in length. Tail terminates in a fine point.

Genus II. Intestinal trichurides. Character. Body round, tail the Character. Body round, tail three times the length of the body, head without vesicles.

Species. Trichuris vulgaris. The trichuris, or long

thread-worm.

Character. The head furn Order II. The flat worms. The head furnished with a proboscis.

Genus I. Intestinal tape-worm.

Character. Body flat and jointed. Species 1. Tania osculis marginalibus. The long tape-worm.

The oscula are situated upon the margin Character. of the joints.

2. Tenia osculis superficialibus. The broad tape-

Character. The oscula are placed upon the flattened surface.

These worms were all known to the ancients, the trichuris only excepted, and are mentioned in the works of Hippocrates, Galen, Celsus, Paulus Ægineta, and Pliny

When worms are generated in the intestines, they often produce the following symptoms, viz. variable appetite, factid breath, acrid cructations and pains in the stomach, grinding of the teeth during sleep, picking of the nose, paleness of the countenance; sometimes dizziness, hardness and fulness of the belly; slimy stools, with occasional griping pains, more particularly about the navel, heat and itching about the anus; short dry cough; emaciation of the body; slow fever, with evening exacerbations and irregular pulse, and sometimes convulsive fits.

Worm-bark. See Geoffræa jamaicensis. Worm-grass, perennial. See Spigelia. Worm, grainea. See Spigetta.
Worm, diniea. See Dracunculus.
Worm, ring. See Herpes.
WORMSED. See Artemisia santonica.
WORMWOOD. See Artemisia absinthium.
Wormwood, common. See Artemisia absinthium. Wormwood, mountain. See Artemisia glacialis. - Wormwood, Roman. See Artemisia absinthium.

Wormwood, Roman. See Artemisia Gosiuliaum. Wormwood, sea. See Artemisia maritima. Wormwood, Tartarian. See Artemisia santonica. WORT. An infusion of malt. This has been found useful in the cure of the scurvy. Dr. Macbride, in his very ingenious experimental essays, having laid down as a principle, "that the cure of the scurvy depends on an experimental essays, having the content of the scurvy depends on the cure of the cure of the scurvy depends on the cure of the cure of the scurvy depends on the cure of the cure of the scurvy depends on the cure of the cure of the cure of the scurvy depends on the cure of the cure of the cure of the scurvy depends on the cure of the cure of the cure of the cure of the scurvy depends on the cure of the cure of the cure of the c the fermentative quality in the remedies made use of," was led to inquire after a substance capable of being preserved during a long sea-voyage, and yet containing materials by which a fermentation might occasionally be excited in the bowels. Such a one appeared to him to be found in malt, which is well known to be the to be found in mail, which is well known to be the grain of barley, brought suddenly to a germinating state by heat and moisture, and then dried, whereby its saccharine principle is developed, and rendered easy of extraction by watery liquors. The sweet infusion of this he proposed to give as a dietic article to scorbutic persons, expecting that it would ferment in their bowels, and give out its fixed air, by the antiseptic powers of which the strong tendency to putrefaction in this disease might be corrected.

It was some time before a fair trial of this purposed remedy could be obtained; and different reports were made concerning it. By some cases, however, published in a postscript of the second edition of the doctor's work in 1767, it appears that scorbutic complaints of the most dangerous kind have actually been cured at sea by the use of wort. Its general effects were to keep the patient's bowels open, and to prove highly natitious and strengthening. It sometimes purged too much, but this effect was easily obviated by the thictura thebaica. Other unquestionable cases of its success in this disease are to be seen in the London Medical Es-

says and Inquiries.
The use of wort has hence been adopted in other cases where a strong and putrid disposition in the fluids appeared to prevail, as in cancerous and phagedenic ulcers; and instances are published, in the fourth volume of the work above mentioned, of its remarkable good effects in these cases

As the efficacy of the malt infusion depends upon its producing changes in the whole mass of fluids, it is obvious that it must be taken in large quantities for a considerable length of time, and rather as an article of diet than medicine. From one to four pints daily have generally been directed. The proportion recommended in preparing it, is one measure of ground malt to three equal measures of boiling water. The mixture must be well stirred, and left to stand, covered, three or four

ours. It should be made fresh every day.
WOUNDWORT. See Laserpitium chironium.
WRAPPER. See Valva

WRIST. See Carpus:

XALA'PPA. (From the province of Xalappa, in New Spain, whence it comes.) Jalap.

XA'NTHUM. (From {uvbos, yellow: so named because it is said to make the hair yellow.) The name of a genus of plants in the Linneas system. Class, Monacia; Order, Penlandria. The less bur-

XANTHIUM STRUMARIUM. The systematic name of the less burdock. This herb of Linnæus was once esteened in the cure of scrofula, but, like most other remedies against this disease, proves ineffectual. seeds are administered internally in some countries against erysipelas.

[Xanthoxylum frazineum. See Prickly-ash. XERA'SIA. (From \$1005, dry.) An excess nuity, or softness of the hairs, similar to down. An excessive teXEROCOLLY'RIUM. (From ξηρος, dry, and κηλλυριον, a collyrium.) A dry collyrium. XEROMY'RIM. (From ξηρος, dry, and μυρον, an ointment.) A dry ointment.

XEROPHTHA LMIA. (Ξηρος, dry, and οφθαλμια, an inflammation of the eye.) A dry inflammation of the eye without discharge.

the eye vithout discharge.

Xi printin. (From £400, a sword: so named from the sword-like shape of its leaves.) Spurgewort.

XIPHOID. (Xiphoides; from £400, s a sword, and £400, likeness.) A term given by anatomists to parts which had some resemblance to an ancient sword, as the xiphoid quartilare. the xiphoid cartilage.

Xiphoid cartilage. See Cartilago ensiformis. Xilon'Lors. See Lignum aloes. Xilon'Lisamum. See Amyris gileadensis.

VAM. See Dioscorea. YANOLITE. See Azinite. RROW. See Achillea millefolium. YARROW. See Achillea millefolium.
YAWS. 1. The African name for raspberry. 2. The name of a disease which resembles a rasp-

2. The name of a disease which resembles a rasp-berry. See Frambasia.
Yayama. The Brazilian name of the pine-apple.
YELLOW EARTH. An ochre yellow-coloured mineral, found in Upper Lusatia.
Yellow fever. See Febris continua.
Yellow saunders. See Santalum album. YENTE. See Lievrite. YEST. See Fermentum. Yoked leaf. See Conjugatus. YOLK. See Vitellus.

YOLK. See Vitellus.

Yorkshire sanicle. See Pinguicula.

YPSILOGLO'SSUS. (From υψιλοειδες; the ypsiloid bone, and γλωσσα, the tongue.) A muscle originating in the os hyoides, and terminating in the tongue.

YPSILOTUES. (From υ, the Greek letter, called ypsilon, and ειδος, a likeness.) The os hyoides: so named from its likeness to the Greek letter ypsilon.

YTRIA. This is a new earth discovered in 1794, by Professor Cadolin, in a stone from Yterby, in the stone from Yterby. in the stone from Yterby.

by Professor Gadolin, in a stone from Ytterby, in

It may be obtained most readily by fusing the gadolinite with two parts of caustic potassa, washing the mass with boiling water, and filtering the liquor, which is of a fine green. This liquor is to be evaporated, till no more oxide of manganese falls down from it in a black powder; after which the liquid is to be saturated with nitric acid. At the same time digest the sediment that was not dissolved, in very dilute nitric acid. which will dissolve the earth with much heat, leaving the silex, and the highly oxided iron, undissolved. Mix the silex, and the highly oxided iron, undissolved. Mix the two liquors, evaporate them to dryness, redissolve and filter, which will separate any silex or oxide of iron that may have been left. A few drops of a solution of carbonate of potassa will separate any lime that may be present, and a cautious addition of hydrosulphuret of potassa will throw down the oxide of manganese that may have been left; but if too much be employed, it will throw down the yttria likewise. Lastly, the yttria is to be precipitated by pure ammoria, well washed and dried.

Vittia is perfectly white, when not contaminated

Yttria is perfectly white, when not contaminated

with oxide of manganese, from which it is not easily freed. Its specific gravity is 4.842. It has neither taste nor smell. It is infusible alone; but with borax melts into a transparent glass, or opaque white, if the borax were in excess. It is insoluble in water, and in caustic fixed alkalies; but it dissolves in carbonate of causic fixed alkalies; but it dissolves in carbonate of ammonia, though it requires five or six times as much as glucine. It is soluble in most of the acids. The oxalic acid, or oxalate of ammonia, forms precipitates in its solutions perfectly resembling the muriate of silver. Prussiate of potassa, crystallized and redissolved in water, throws it down in white grains; phosphate of soda, in white gelatinous flakes; infusion of galls, in brown flocks. galls, in brown flocks

Some chemists are inclined to consider yttria rather as a metallic than as an earthy substance: their reasons are, its specific gravity, its forming coloured salts, and its property of oxygenizing muriatic acid after it has undergone a long calcination.

When yttria is treated with potassium in the same manner as the other earths, similar results are obtained; the potassium becomes potassa, and the earth gains appearances of metallization; so that it is scarcely to be doubted, says Sir H. Davy, that yttria consists of inflammable matter, metallic in its nature, combined with oxygen. The salts of yttria have the

following general characters:-1. Many of them are insoluble in water.

2. Precipitates are occasioned in those which dissolve, by phosphate of soda, carbonate of soda, oxalate of ammonia, tartrate of potassa, and ferroprussiate of

3. If we except the sweet-tasted soluble sulphate of yttria, the other salts of this earth resemble those with the base of lime in their solubility.

TTRO-CERITE. A mineral of a reddish, grayish white, and a violet-blue colour, consisting of oxide of cerium, yttria, lime, and fluoric acid, found hitherto only at Finbo, in Sweden.
YTTRO-TANTALITE. An ore of tantalum, from which the columbic acid is procured.

YUCCA. (Yucca, Yuca, or Iucca, of the original inhabitants of America.) The name of a genus of plants in the Linnæan system. Class, Hexandria; Order, Monogynia.
YUCCA GLORIOSA. See Adam's needle.

THE S

### ZEA

ZA'CCHARUM. See Saccharum.
ZACCHIA, PAOLO, an eminent physician, was born at Rome in 1585, and became distinguished by his learning and accompissiments, as well as by his pro-fessional skill. He was physician to Pope Innocent X., and celebrated among his contemporaries by various publications, of which the principal is entitled, "Quæstiones Medico-legales," and has been often reprinted. He was also the author, in Italian, of two esteemed works, on the Lent diet, and on hypochon-driacal affections. He died in 1659. ZA\*FFRE. Saifre. The residuum of cobalt after the authory agreeic, and other volatile matters of this learning and accomplishments, as well as by his pro-

the sulphur, arsenic, and other volatile matters of this

mineral have been expelled by calcination.

Zai'Bac. (Arabian.) Quicksilver.

Za'RZA. An ancient and provincial name of the sarsaparilla.

ZE'A. (Zea, &, f.; a name borrowed from the ancient Greeks, whose gua appears to have been some kind of Triticum or Hordeum, agreeing with this genus only as being a grain cultivated for the use of man.) The maize.

#### ZEO

ZEA MAYS. The systematic name of the Indian wheat-plant, the common maize, or Indian corn, a native of America and cultivated in Italy and several parts of Europe, for its grain, which is ground for the same purposes as our wheat, to which it is very little

ZEDOA'RIA. 1. The name of a genus of plants in the Linnean system. Class, Monandria; Order, Mo-nogynia. Zedoary. 2. The pharmacopeial name of a Kampfera. See

Kæmpfera rotunda.
ZEDOARIA LONGA. The long roots of the Kæmpfera rotunda, of Linnæus.

ZEDOARIA ROTUNDA. The round doary plant. See Kæmpfera rotunda. ZEDOARY. See Zedoaria. The round root of the ze-

ZEINE. A yellow substance, having the appearance of wax, obtained from maize or Indian corn.
ZEOLITE. The name of a very extensive mineral genus, containing the following species:
1. Dodecahedral zeolite, or leucite.

Hexahedral zeolite, or analcime.

Rhomboidal zeolite, chabasite, or chabasie

4. Pyramidal zeolite, or cross stone.

Diprismatic zeolite, or laumonite

6. Prismatic zeolite, or mesotype, divided into three subspecies: natrolite; mealy zeolite, of a white colour, of various shades; and fibrous zeolite, of which there are two kinds.

a. The acicular, or needle zeolite, the mesotype of Haüy. This is of a grayish, yellowish, or reddishwhite colour. It is found in Scotland.

b. Common fibrous zealite, of a white colour.

Prismatoidal zeolite, or stilbite, comprehending,
 Prismatoidal zeolite, or stilbite, comprehending,
 Foliated zeolite, stilbite of Hauy of a white and red colour, beautiful specimens of which are found in

b. Radiated zeolite, of a yellowish-white, or grayishwhite colour.

R. Axifrangible zeolite, or apophyllite.

ZE'RNA. An ulcerated impetigo.

ZERO. The commencement of a scale marked 0 thus we say, the zero of Fahrenheit, which is 320 below the melting point of ice; the zero of the centigrade scale, which coincides with the freezing of water. The absolute zero is the imaginary point in the scale of temperature, when the whole heat is exhausted: the term of absolute cold or privation of caloric

ZI'BETHUM. (From Zobeth, Arabian.) Civetta. Civet. A soft, unctuous, odoriferous substance, about the consistence of honey or butter, of a whitish, yellowish, or brownish colour, sometimes blackish, contained in some excretory follicles near the anus of the Viverra zibetha, of Linnæus. It has a grateful smell when diluted, and an unctuous subacrid taste, and possesses stimulating, nervine, and antispasmodic

ZIMMERMAN, JOHN GEORGE, was born in 1728, at Brug, in the canton of Bern, and studied medicine under Haller at Gottingen, where he took his degree at 23. Having married a relation of Haller, at Bern, he settled as a physician in his native town; the re trement of which gave him an opportunity of composing many pieces in prose and verse, and particularly a sketch of his popular work "On Solitude." His treatise "On the Experience of Medicine," appeared in 1763, and three years after, that on dysentery. 1768, he accepted the post of physician to the king of England for Hanover, whither he removed. Here the accumulation of business tended in some measure to allay the irritability of his temper: and being obliged about three years after, to put himself under the care of a surgeon at Berlin for some local complaint, the notice that was taken of him, even by the king, contributed much to improve his health and spirits, and of course his happiness. Having lost his first wife, he formed a second matrimonial connexion in 1782; which helped much to alleviate the afflictions to which he was afterward exposed. In 1786 he was sent for to attend the great Frederick in his last illness: and he published an account of the conversations which he had with that celebrated prince. He was led, too, to defend the character of Frederick against the censures of Count de Mirabeau, which suffered him to severe criticisms. His political and religious principles induced him also to attack those societies which paved duced him also to datase mose societies which paved the way to the French revolution; and he advised the Emperor Leopold to suppress them by force; and having laid an unavowed publication to the charge of a particular person, he subjected himself to a prosecution for a libel. His mind had arrived to such a state of irritation, that the approach of the French towards Hanover almost subverted his reason; he abstained from food, and died absolutely worn out in 1795.

ZIMOME. See Gluten, vegetable. ZINC. (Zincum, a German word) A metal found ZINC. (Zincum a definition of the control of the co oxide of zinc is commonly called calamine. It occurs in a loose, and in a compact form, amorphous, of a white, gray, yellow, or brown colour, without lustre, or transparency. Combined with carbonic acid, it is called vitreous zinc ore, or native carbonate of zinc. It is found in solid meson process provides the state of zinc. is found in solid masses, sometimes in six-sided compressed prisms, both ends being covered with pentagons. Its colour is generally grayish inclining to black. It is often transparent. Sulphate of zinc is found efflorescent in the form of stalactites, or in rhombs. Sulphuret of zinc, or blende, is the most abundant ore. It is

found of various colours; brown, yellow, hyacinth, black, &c., and with various degrees of lustre and transparency. This zinc ore is contaminated with iron, lead, argillaceous and silicious earths, &c. both in amorphous masses and crystallized in a diversity of polygonal figures.

It is of a bluish-white colour, somewhat brighter than lead; of considerable hardness, and so malleable not to be broken with the hammer, though it cannot be not to be proken with the hammer, though it cannot be much extended in this way. It is very easily extended by the rollers of the flatting mill. Its sp. gr. is from 6.9 to 7.2. In a temperature between 210° and 300° of F., it has so much decidity that it can be drawn into wire as well as Januaritate. into wire, as well as laminated.

When broken by bending, its texture appears as if when broken by belinding, its texture appears as it composed of cubical grains. On account of its imperfect malleability, it is difficult to reduce it into small parts by filing or hammering; but it may be granulated, like the malleable metals, by pouring it, when fused, into cold water; or, if it be heated nearly to melting, it is then sufficiently brittle to be pulverized.

It melts long before ignition, at about the 700th degree of Fahrenheit's thermometer; and, soon after it becomes red-hot, it burns with a dazzling white flame, becomes red-hot, it burns with a dazzling white flame, of a bluish or yellowish tinge, and is oxidized with such rapidity, that it flies up in the form of white flowers, called the flowers of zinc, or philosophical wool. These are generated so plentifully, that the access of air is soon intercepted; and the combustion ceases, unless the matter be stirred, and a considerable heat kept up. The white oxide of zinc is not volatile, but is driven up merely by the force of the combustion. When it is again urged by a strong heat, it becomes converted into a clear yellow glass. If zinc be heated in closed vessels, it rises without decomposition.

When zinc is burned in chlorine, a solid substance

is formed of a whitish-gray colour, and semitrans-parent. This is the only chloride of zinc, as there is only one oxide of the metal. It may likewise be made by heating together zinc filings and corrosive sublimate. is as soft as wax, fuses at a temperature a little above 212°, and rises in the gaseous form at a heat much below ignition. Its taste is intensely acrid, and it corrodes the skin. It acts upon water, and dissolves in it, producing much heat; and its solution decomposed, by an alkali, affords the white hydrated oxide of zinc. This chloride has been called butter of zinc, and muriate of zinc.

Blende is the native sulphuret of zinc. bodies are difficult to combine artificially. The salts

of zinc possess the following general characters:-. They generally yield colourless solutions with

2. Ferroprussiate of potassa, hydrosulphuret of potassa, hydriodate of potassa, sulphuretted hydrogen, and alkalies, occasion white precipitates.

Infusion of gall produces no precipitate.

The diluted sulphuric acid dissolves zinc: at the same time that the temperature of the solvent is increased, and much hydrogen escapes, an undissolved residue is left, which has been supposed to consist of plumbago. Proust, however, says, that it is a mixture of arsenic, lead, and copper. As the combination of the sulphuric acid and the oxide proceeds, the temperature diminishes, and the sulphate of zinc, which is more soluble in hot than cold water, begins to separate, and disturb the transparency of the fluid. If rate, and disturb the transparency of the finite. It more water be added, the salt may be obtained in fine prismatic four-sided crystals. The white vitrio, or copperas, usually sold, is crystalized hastily, in the same manner as loaf-sugar, which on this account it recombles in approximate it is lightly affected by resembles in appearance; it is slightly efflorescent. The white oxide of zinc is soluble in the sulphuric acid, and forms the same salt as is afforded by zinc

The hydrogen gas that is extricated from water by the action of sulphuric acid, carries up with it a por-tion of zinc, which is apparently dissolved in it; but this is deposited spontaneously, at least in part, if not wholly, by standing. It burns with a brighter flame

than common hydrogen.

Sulphate of zinc is prepared in the large way from some varieties of the native sulphuret. The ore is roasted wetted with water, and exposed to the air. The sulphur attracts oxygen, and is converted into sul-phuric acid; and the metal, being at the same time oxidized, combines with the acid. After some time, the

sulphate is extracted by solution in water; and the subjunct is extracted by solution in water, and the bolttion being evaporated to dryness, the mass is run into moulds. Thus the white vituol of the shops generally contains a small portion of iron, and sometimes of lead.

Sulphurous acid dissolves zinc, and sulphuretted hydrogen is evolved. The solution, by exposure to the air, deposites needly crystals, which, according to Fourcroy and Vauquelin, are sulphuretted sulphite of zinc. By dissolving oxide of zinc in sulphurous acid, the pure sulphite is obtained. This is soluble, and crystallizable.

Diluted nitric acid combines rapidly with zinc, and produces much heat, at the same time that a large quantity of nitrous air flies off. The solution is very caustic, and affords crystals by evaporation and cool-

caustic, and affords crystals by evaporation and cooling, which slightly detonate upon hot coals, and leave oxide of zinc behind. This salt is deliquescent.

Muriatic acid acts very strongly upon zinc, and disengages much hydrogen; the solution, when evaporated, does not afford crystals, but becomes gelatinous. By a strong heat it is partly decomposed, a portion of the acid being expelled, and part of the muriate sublimes and condenses in a congeries of prisms.

Phosphoric acid dissolves zinc. The phosphate does not crystallize, but becomes gelatinous, and may be fused by a strong heat. The concrete phosphoric acid heated with zinc filings is decomposed.

Fluoric acid likewise dissolves zinc.

Fluoric acid likewise dissolves zinc.

The boracic acid digested with zinc becomes milky; and if a solution of borax be added to a solution of muriate or nitrate of zinc, an insoluble borate of zinc is thrown down.

A solution of carbonic acid in water dissolves a small quantity of zinc, and more readily its oxide. If the solution be exposed to the air, a thin iridescent pellicle

forms on its surface.

The acetic acid readily dissolves zinc, and yields by evaporation crystals of acetate of zinc, forming rhom-boidal or hexagonal plates. These are not altered by exposure to the air, are soluble in water, and burn with

The succinic acid dissolves zinc with effervescence, and the solution yields long, slender, foliated

crystals.

Zinc is readily dissolved in benzoic acid, and the solution yields needle-shaped crystals, which are soluble both in water and in alkohol. Heat decomposes them

by volatilizing their acid.

The oxalic acid attacks zinc with a violent effervescence, and a white powder soon subsides, which is oxalate of zinc. If oxalic acid be dropped into a solution of sulphate, nitrate, or muriate of zinc, the same salt is precipitated; it being scarcely soluble in water unless an excess of acid be present. It contains seventyfive per cent. of metal.

The tartaric acid likewise dissolves zinc with effer-vescence, and forms a salt difficult of solution in water.

The ciric acid attacks zinc with effervescence, and small brilliant crystals of citrate of zinc are gradually deposited, which are insoluble in water. Their taste is styptic and metallic, and they are composed of equal parts of the acid and of oxide of zinc.

The malic acid dissolves zinc, and affords beautiful crystals by evaporation.

Lactic acid acts upon zinc with effervescence, and

produces a crystallizable salt.

The metallic acids likewise combine with zinc. If arsenic acid be poured on it, an effervescence takes place, arsenical hydrogen gas is emitted, and a black powder falls down, which is arsenic in the metallic state, the zinc having deprived a portion of the arsenic, as well as the water, of its oxygen. If one part of zinc filings, and two parts of dry arsenic acid be distilled in a retort, a violent detonation takes place when the retort becomes red, occasioned by the sudden absorption of the oxygen of the acid by the zinc. The arseniate of zinc may be precipitated by pouring arsenic acid into the solution of acetate of zinc, or by mixing a solution of an alkaline arseniate with that of sulphate of zinc.

of an alkathe arsemate with that of suprate of zinc. It is a white powder, insoluble in water.

By a similar process zinc may be combined with the molybdic acid, and with the oxide of tungsten, the tungstic acid of some, with both of which it forms a white insoluble compound; and with the chromic acid, the result of which compound is equally insoluble, but

of an orange-red colour.

Zinc likewise forms some triple salts. Thus, if the white oxide of zinc be boiled in a solution of muriate of ammonia, a considerable portion is dissolved; and though part of the oxide is again deposited as the solution cools, some of it remains combined with the acid and alkali in the solution, and is not precipitable either by pure alkalies or their carbonates. This triple salt does not crystallize.

If the acidulous tartrate of potassa be boiled in water with zinc filings, a triple compound will be formed, which is very soluble in water, but not easily crystal-lized. This, like the preceding, cannot be precipitated

from its solution either by pure or carbonated alkalies.

A triple sulphate of zinc and iron may be formed by mixing together the sulphates of iron and of zinc dissolved in water, or by dissolving iron and zinc in dilute sulphuric acid. This salt crystallizes in rhomboids, which nearly resemble the sulphate of zinc in figure, but are of a pale green-colour. In taste, and in degree of solubility, it differs little from the sulphate of zinc. It contains a much larger proportion of zinc than of

A triple sulphate of zinc and cobalt, as first noticed A tiple supplate of zinc and coonly as his induced by Link, may be obtained by digesting zaffre in a solution of sulphate of zinc. On evaporation, large quadrilateral prisms are obtained, which effloresce on ex-

Zinc is precipitated from acids by the soluble earths and the alkalies: the latter redissolve the precipitate, if

they be added in excess.

posure to the air

Zinc decomposes, or alters, the neutral sulphates in e dry way. When fused with sulphate of potassa, the dry way. it converts that salt into a sulphuret: the zinc at the same time being oxidized, and partly dissolved in the sulphuret. When pulverized zinc is added to fused nitre, or projected together with that salt into a red-hot crucible, a very violent detonation takes place; insocrucible, a very violent detonation takes place; insurance that it is necessary for the operator to be careful in using only small quantities, lest the burning matter should be thrown about. The zinc is oxidized, and part of the oxide combines with the alkali, with which it forms a compound soluble in water.

Zinc decomposes common sait, and also sal ammoniae, by combining with the muriatic acid. The filings of zinc likewise decompose alum, when boiled in a solution of that salt, probably by combining with its excess of acid.

Zinc may be combined with phosphorus, by project-In may be combined with phosphorus, by projecting small pieces of phosphorus on the zine melted in a crucible, the zine being covered with a little resin, to prevent its oxidation. Phosphuret of zine is white, with a shade of bluish-gray, has a metallic bustre, and is a little malleable. When zine and phosphorus are exposed to heat in a retort, a red sublimate rises, and likewise a bluish sublimate in needly crystals with a metallic lustre. If zinc and phosphoric acid be heated together, with or without a little charcoal, needly crystals are sublimed, of a silvery-white colour. All these, according to Pelletier, are phosphuretted oxides of zinc.

Most of the metallic combinations of zinc have been already treated of. It forms a brittle compound with antimony; and its effects on manganese, tungsten, and

antimony; and as enects on manganese; ungsten, and molybdena, have not yet been ascertained.

Zinc, mitriolated. See Zinci sulphas.

Zinci acetas. See Actas zinci.

Zinci oxidum. Zincum calcinatum. Oxide of zinc. Flowers of zinc. Nihil album; Lana philosophorum.

"Throw gradually little pieces of zinc into a large deep crucible placed obliquely and made of a white heat, crucinle placed oniquely and induce of a write hear, another crucible being placed over it, so that the zinc may be exposed to the air, and that it may be frequently stirred with an iron spatula; take out directly the oxide, which is formed from time to time; then pass the white and lighter part of it through a sieve. Lastly, pour water upon this, that a very fine powder may be formed, in the same manner as chalk is directed to be prepared." The properties of this oxide are analogous to those of the sulphate, (except that it is hardly active enough to excite vomiting,) if given in larger doses: but it is more precarious in its effects; and chiefly used at present as an external astringent.

ZINCI SULPHAS. Zincum vitriolatum. Vitriolum album. Sulphate of zinc. White vitriol. This occurs native, but not sufficiently pure for medical use: It is thus prepared in the pharmacopæia. "Take of zinc, broken to little pieces, three ounces; sulphuric acid, by weight, five ounces; water, four pints. Mix them in a glass vessel, and when the effervescence is | silex, potassa, and oxide of iron. Dissolve it in muover, filter the solution through paper; then boil it down, till a pellicle appears, and set it by to crystallize." This preparation is given internally in the dose of from Dj to Dss, as a vomit. In small doses it cures dropsies, intermitting headaches, and some nervous diseases; and is a powerful antispasmodic and tonic. A solution of white vitriol is also used to remove gleets, gonorrheas, and for cleaning foul ulcers, having an astringent or stimulant effect, according to its strength.

ZI'NCUM. See Zmc.

ZINCUM CALCINATUM. See Zinci oxidum. ZINCUM VITRIOLATUM. See Zinci sulphas. ZINCUM VITRIOLATUM PURIFICATUM. See Zinci sulphas. Zingi.

An ancient name of the stellated aniseed.

See Illicium anisatum.

Zi NotBER. (Zingiberis, is, f. Zingiber, eris, n. Zingiberi; indec. Ζιγγιβερις, of Dioscorides, a name which the Greeks seem to have taken from the Arabians, when they got the plant.) The name of a genus of plants, according to Roscoe. Class, Monandria; Order, Monogynia.

ZINGIBER ALBUM. Ginger-root when deprived of its

radicles and sordes.

ZINGIBER COMMUNE. See Zingiber officinale.
ZINGIBER NIGRUM. The root of the zingiber officinale is so called when suffered to dry with its radicles

and the sordes which usually hang to it.

ZINGIBER OFFICINALE. The systematic name of the ginger-plant. Zingiber album; Zingiber nigrum; Zingiber commune; Zinziber; Amonum zingiber, of Linneus. The white and black ginger are both the produce of the same plant the difference decording. produce of the same plant, the difference depending upon the mode of preparing them. Ginger is generally considered as an aromatic, and less pungent and heating to the system than might be expected from its effects upon the organ of taste. It is used as an antispasmodic and carminative. The cases in which it is more immediately serviceable are flatulent colics, debility, and laxity of the stomach and intestines; and in torpid and phlegmatic constitutions to excite brisker vascular action. It is seldom given but in combination with other medicines. In the pharmacopæias it is directed in the form of a syrup and condiment, and in

many compositions ordered as a subsidiary ingredient. ZINN, JOHN GODFREY, was born in 1726, studied under Haller at Gottingen, and became botanical professor in that university. His first experiments were undertaken to ascertain the sensibility of different parts of the brain; he then proceeded to the examination of the eye, on which he published a work in much estimation. The result of his botanical labours apestimation. The result of his botanical labours appeared in several papers, and in a catalogue of the plants about Gottingen, arranged according to the plan of his preceptor. He died prematurely in 1758. He was a member of several learned societies.

ZI'NZIBER. See Zingiber. ZIRCONIA. Zircon. Ar L'INZIBER. See Zingtber.

ZIRCONIA. Zircon. An earth discovered in the year 1793, by Klaproth of Berlin, in the Zircon or Jargon, a gem first brought from the island of Ceylon, but also found in France, Spain, and other parts of Europe. Its colour is either gray, greenish, yellowish, reddish-brown, or purple. It has little lustre, and is nearly opaque. Zircon is likewise found in another gem called the hyacinth. This stone is of a yellowish-red colour, mixed with brown. It possesses lustre and red colour, mixed with brown. It possesses lustre and transparency. To obtain it, the stone should be calcined and thrown into cold water, to render it friable, and then powdered in an agate mortar. Mix the powder with nine parts of pure potassa, and project the mixture by spoonfuls into a red-hot crucible, taking care that each portion is fused before another is added Keep the whole in fusion, with an increased heat, for an hour and a half. When cold, break the crucible, separate its contents, powder and boil in water, to dis-solve the alkali. Wash the insoluble part; dissolve in muriatic acid; heat the solution, that the silex may fall down; and precipitate the zircon by caustic fixed alkali. Or the zircon may be precipitated by carbonate of soda, and the carbonic acid expelled by heat.

New process for preparing pure sirconia.—Powder the zircons very fine, mix them with two parts of pure potassa, and heat them red-hot in a silver crucible, for an hour. Treat the substance obtained with distilled water, pour it on a filter, and wash the insoluble part well; it will be a compound of zirconia,

riatic acid, and evaporate to dryness, to separate the silex. Redissolve the muriates of zirconia and iron in water; and to separate the zirconia which adheres to the silex, wash it with weak muriatic acid, and add this to the solution. Filter the fluid, and precipitate the zirconia and iron by pure ammonia; wash the precipitates well, and then treat the hydrates with oxalic acid, boiling them well together, that the acid may act on the iron, retaining it in solution, while an insoluble oxalate of zirconia is formed. It is then to be filtered, and the oxalate washed, until no iron can be detected in the water that passes. The earthy oxa-late is, when dry, of an opaline colour. After being well washed, it is to be decomposed by heat in a platinum crucible.

Thus obtained, the zirconia is perfectly pure, but is not affected by acids. It must be reacted on by potassa as before, and then washed until the alkali is removed. Afterward dissolve it in muriatic acid, and precipitate by ammonia. The hydrate thrown down, when well washed, is perfectly pure, and easily soluble

in acids.

Tircon is a fine white powder, without taste or smell, but somewhat harsh to the touch. It is insoluble in water; yet if slowly dried, it coalesces into a semitransparent yellowish mass, like gum-arabic, which retains one-third its weight of water. It unites with all the acids. It is insoluble in pure alkalies; but the alkaline carbonates dissolve. with all the actus. It is insolution in pure alkanies; but the alkaline carbonates dissolve it. Heated with the blowpipe, it does not melt, but emits a yellowish phos-phoric light. Heated in a crucible of charcoal, bedded in charcoal powder, placed in a stone crucible, and exposed to a good forge fire for some hours, it undergoes a pasty fusion, which unites its particles into a gray opaque mass, not truly vitreous, but more resembling porcelain. In this state it is sufficiently hard to strike fire with steel, and scratch glass; and is of the specific gravity of 4.3.

There is the same evidence for believing that zirco-nia is a compound of a metal and oxygen, as that afforded by the action of potassium on the other earths. amorded by the action of potassium on the other earths. The alkaline metal, when brought into contact with zirconia ignited to whiteness, is, for the most part, converted into potassa, and dark particles, which, when examined by a magnifying glass, appear metallic in some parts, of a chocolate-brown in others, are found diffused through the potassa and the decom-

pounded earth.

According to Sir H. Davy, 4.66 is the prime equiva-lent of zirconium on the oxygen scale, and 5.66 that of zirconia.

zirconia.

ZIZA'NIA. (An ancient rame, ¿¿aviov, of the Greeks, synonymous with infelix lolium, of the Latins.) The name of a genus of plants in the Linnæan system. Class, Monæcia; Order, Hexandria.

ZIZANIA AQUATICA. The systematic name of a reed, the grain of which is much esteemed in Jamaica and Virginia. The Indians are exceedingly fond of it, and account it maye delicious than rice.

account it more delicious than rice.

(The zizania aquatica is a native of most of the northern parts of the United States, but it has disappeared in the settled and cultivated parts of the country. It is now principally found on the streams and shoal waters of the north-western lakes and rivers, where it grows spontaneously in the water, like rice in where it grows spontaneously in the water, like rice in the southern states. During seed-time, the aborigines of the country collect it for food; which they use by parching with fire, and then pounding with a stone. The meat thus produced tastes much like parched Indian corn. The plant is the Fausse avoine, or false oats of the French Canadians. The grain is black, and from half an inch to an inch in length, with much of the appearance, when growing, of oats or rice. A.] Za'zyphus. The jujubes were formerly so called. See Rhamnus zizyphus. ZOISTE. A subspecies of prismatic augite, which is divided into two kinds:

Common zoisite, of a yellowish-gray colour, found

2. Friable zoisite, of a reddish colour, which comes also from Corinthia.

ZO'NA. (From ζωννυμι, to surround.) The shines. See Erusinelas.

gles. See Erysipelas. ZOOLOGY. (Zoologia; from ζωον, an animal, and λογος, a discourse.) That part of natural history which treats of animals.

ZOONIC ACID. In the liquid procured by distillation from animal substances, which had been supposed to contain only carbonate of ammonia and an oil, Berthollet imagined he had discovered a peculiar acid, to which he gave the name of zoonic. Thenard, however, has demonstrated that it is merely acetic acid

ever, has demonstrated that it is merely acetic acid combined with animal matter.

ZOONO'MIA. (From ζωον, an animal, and νομος, a law.) The laws of organic life.

ZOOPHYTE. (Zoophyte, i, n.; from ζωον, an animal, and φυτον, a plant.) A kind of intermediate body, supposed to partake both of the nature of an animal and a vegetable. In the Linuxan system, zoophytes constitute an order of the Class Ferness.

Constitute an order of the Class Vernees.

ZOOTOMY. (Zootomia; from ‱v, an animal, and repro, to cut.) The dissection of animals.

ZO'STER. (From ‰vrvput, to gird.) A kind of erysipelas which goes round the body like a girdle.

ZU'CHAR. (Arabian.) Sugar.

ZUMATE. A compound of the zumic acid, with a

salifiable basis

ZUMIC ACID. ZUMIC ACID. (Acidum zumicum, from  $\zeta \nu \mu \eta$ , leaven.) An acid produced from vegetable substances which nave undergone the acetous fermentation. Its claim to be considered as a distinct compound is doubt-

claim to be considered as a distinct compound is not of the full. See Nanceic acid.

ZUNDERERZ. Tinder ore. An ore of silver.

ZYGO'MA. (From yuyo, a yoke: because it transmits the tendon of the temporal muscle like a yoke.)

The acuity under the reproporation process of the temporal muscle in the process. The cavity under the zygomatic process of the temporal bone, and os maia.

ZYGOMATIC. (Zygomaticus; from zygoma.) Belonging to the zygoma.

ZYGOMATIC PROCESS. An apophysis of the os jugale, and another of the temporal bone, are so called.

ZYGOMATIC SUTURE. Sutura zygomatica. The union of the zygomatic process of the temporal bone to the cheek bone.

ZYGOMATICUS MAJOR. This muscle arises from the cheek bone near the zygomatic suture, taking a direction downwards and inwards to the angle of the mouth. It is a long slender muscle, which ends by mixing its fibres with the orbicularis oris, and the depressor of

ZYGOMATICUS MINOR. This muscle arises a little higher up than the zygomaticus major, upon the check higher up than the zygomaticus major, upon the check bone, but nearer the nose; it is much more slender than that muscle, and is often wanting. It is the zygomatic muscle that marks the face with that line which extends from the cheek bone to the corner of the mouth, which is particularly distinguishable in some persons. The zygomatic muscles pull the angles of the mouth up as in laughter, and from, in this way, rendering the face distorted, it has obtained the name of distortor oris. The strong action of this muscle is more parti-

oris. The strong action of this muscle is more particularly seen in laughter, rage, or grimning. ZVTHO'GALA.  $Zv\theta oy a\lambda a$ . Beer and milk, which make together what we commonly call posset-drink; a term often to be met with in Sydenham. ZZ. The ancients signify Myrrh by these two letters, from  $\zeta \mu_0 v_0 v_0 r_1$  name for it common among them. They have also been used for Zingiber.

THE END

# APPENDIX.

[THE following obsolete terms have been omitted in the body of the work, but to preserve Dr. Hooper's Dictionary perfect, they are inserted in the present place and form.]

An obsolete term used by some ancient I alchemists for lead.

A'BANET. (Hebrew. The girdle worn by the Jew-ish priests.) A girdle-like bandage.

ABA'RTAMEN. Lead.

A'BAS. An Arabian term for the scald-head, and also for epilepsy.

Abo'it. An Arabic term for white lead.
A'bric. An Arabic term for sulphur.
Abstracti'tius. (From abstraho, to draw away.) An obsolete term formerly applied to any native spirit, not produced by fermentation.

Aca ca. (Ακακος; from α, neg., and κακος, bad.) Formerly applied to those diseases, which are rather troublesome than dangerous.

(Arabian.) Common salt. ACA'LAI.

Aca'lcum. Tin.
Aca'nor. (Hebrew.) A furnace.
Aca'zdir. Tin.

A'CCIB. An obsolete term for lead. A'CESIS. (From akeougi, to cure (From akeo µat, to cure.) 1. A remedy

2. The herb water-sage; so called from its supposed healing qualities.

ACE STORIS. (From arcouat, to cure.) It strictly signifies a female physician, and is used for a midwife.

ACHMA'DIUM. Antimony.
A'CHNE. An obsolete term applied to

1. Chaff.

 Scum or froth of the sea.
 A white mucus in the fauces, thrown up from the lungs, like froth.

4. A whitish mucilage in the eyes of those who have fevers, according to Hippocrates.
5. It signifies also lint.

ACONITUM. (Aconitum, i, m. Of this name various derivations are given by etymologists; as, ακονη, Of this name rando delivations are given by elymologists; as, ακονη, a whet stone or rock, because it is usually found in barren and rocky places: ακονιτος, a, neg., and κονις, dust; because it grows without earth, or on barren situations; agreeable to Ovid's description, "Quæ quia nascuntur dura vivacia caute, Agrestes aconita vocant." ακοναω, to sharpen; because it was used in medicine intended to sudarpen; because it was used in incidence incidence to quicken the sight: γκων; καη, a dart; because they poison darts therewith: or, ακονιζομαι, to accelerate; for it hastens death.) Acomite. I. A gemus of plants in the Linnæan system, all the species of which have powerful effects on the human body. Class, Polyandria; Order, Trigynia.

2. The pharmacopæial name of the common, or blue

wolf's-bane. See Aconitum napellies.

woll's-bane. See Acontum napotites.
Aco'nium. A little mortar.
ACORI'TES. (From acopov, galangal.) Acorites
vinum. A wine mentioned by Dioscorides, made with
galangal, liquorice, &c. infused with wine.
Acortinus. A lupin.
A'CRA. (An Arabian word.) Acrai.

Excessive venereal appetite.
 The time of menstruation.

ACTON. A village four miles from London, where is a well that affords a purging water. This is one of the strongest purging waters near London; and has been drank in the quantity of from one to three pints in a morning, against scorbutic and cutaneous affections. This medical spring is no longer resorted to by the public.

ADAICES. Sal-ammoniac.

Adamtew. See Adamita.

Adamtew. An ammoniacal salt.

A'dec. Sour milk, or buttermilk.

Addithorosus. A spirit distilled from tartar solete.

ADIBAT. Mercury.

A'DICE. Αδικη. A nettle. ADI'RIGE. Ammoniacal salt. A'DOC. Milk.

A'DRAM. Fossil salt.

AEI'GLUCES. (From αει, always, and γλυκυς, sweet.)

A sweetish wine, or must.

A: ON. The spinal marrow.

A: ONE SIS. A washing or sprinkling the whole body. Alsehromythe sis. The obscene language of the delirious.

ÆSECA VUM. Brass. ÆSTA'TES. Freckles in the face; sunburnings.

ÆTAS CREPITA. See Age. ÆTAS VIRILIS. See Age.

Æ THNA. A chemical furnace.

Æ'THOCES. Ætholices. Superficial pustules in the skin, raised by heat, as boils, fiery pustules.

A mortar. ÆTHYA.

ÆTTIOI PHLEBES. Eagle veins. The veins which pass through the temples to the head, were so called formerly by Rufus Ephesius.

ATTOLIUM. See Altocom.

A'FFION. An Arabic name for opium.

A'FFIUM. An Arabic name for opium.

AGERA'TUS LAPIS. (Ageratus, common.) A stone used by cobblers

A GES. (From ay115, wicked: so called because it is generally the instrument of wicked acts.) The palm of the hand.

The thigh or femur.

Agme. A fracture.

A'GMA. Agme. A fracture.
Ago'ce. 1 The deduction or reasoning upon diseases from their symptoms and appearances

eases from their symptoms and appearances.

2. The order, state, or tenour of a disease or body.

Ago sros. (From ayo, to bring, or lead.) That
part of the arm from the elbow to the fingers; also the palm or hollow of the hand.

AGRE'STA. (Δγριος, wild.) 1. The immature

AGRESTA. (Aypos, who.) I. The immature fruit of the vice.

2. Verjuice, which is made from the wild apple.
AGRESTEN. Common tartar.
AGUIA. (From a, priv., and ymov, a member.)
Paralytic weakness of a limb. Where the use of the members is defective or lost.

A'GUL. Alhagi. An Arabian name for the Syrian thorn. The leaves are pugative

AGYION. See Agram.
AGYION. See Agram.
AGYION. See Agram.
AGYINTZE. (From αγυρις, a crowd of people, or a mob; or from αγειρφ, to gather together.) It formerly expressed certain strollers, who pretended to strange things from supernatural assistances; it was from a continuous dabbles; in reddictions. afterward applied to all illiterate dabblers in medicine. Now obsolete.

The Hebrew name of Lignum aloes, AHALOTH.

See Lignum aloes.
AHAME LIA. See Achmella.

AHAME LLA. See Acknella. A chesnut-like fruit of Brazil, of a poisonous nature.
AH SAL. Orpiment.
AL SAL. Orpiment.
AL MAD. Antimony.
AL MAD. Antimony.
AJ MARA Lead.
ALA BARI. Lead.
ALACAR. Sal ammoniac.
ALACAR. Sal ammoniac.
ALACAR. Sal ammoniac.
ALACAR. Sal ammoniac.

A LACAR. Sai annionae.

A'LAFI Alafort. Alcaline.

A'LAMAD. Alamed. Antimony.

ALA'MBIC. Mercury.

ALAFOU'LL. See Bilembi.

ALASALET. Alast. Annioniaeum.

ALANALET. Alaszt. Ammoniacu ALASI. Alafor. An alcaline salt. ALASTROB. Lead. A'LATAN. Litharge. ALAU'RAT. Nitre. Alaset. Ammoniacum.

APPENDIX. ALBADAL. An Arabic name for the sesamoid bone of the first joint of the great toe. A'LKI PLUMBI. Supposed to be the sugar or acctate of lead. ALBAGE'NZI. Albagiazi. Arabic names for the os A'LKOSOR. Camphire. sacrum. ALKSOAL. A crucible. ALBA'RA. (Chaldean.) The white leprosy. ALBARAS. 1. Arsenic. Powder of basilisk. ALKYMIA. A'LLABOR. T.ead A LLICAR. Vinegar.
ALLICAR. Vinegar.
ALLICARVITA. A ligature or bandage.
ALLIOTICUM. (From αλλιοω, to alter, or vary.)
An alterative medicine, consisting of various antiscor-2. A white pustule A'LBERAS. (Arabian.) White pustules on the face: also, staphisagria, because its juice was said to remove these pustules. ALBE'STON. Quicklime. A'LBETAD. Galbanum. ALLOCHOOS. (From  $a\lambda\lambda\rho_5$ , another, and  $\chi\epsilon\omega$ , to pour.) Hippocrates uses this word to mean delirious. A LMAGRA. Bolum cuprum. 1. Red earth, or ochre, used by the ancients as an astringent. A'LBI SUBLIMATI. Muriated mercury. A'LEIMEC. Orpiment. See Arsenic. A'LBOR. Urine. ALBO'REA. Quicksilver.
A'LBOT. A crucible.
ALBO'TAI. Turpentine.
A'LBOTAR. Turpentine.
A'LBOTAT. White lead. Rulandus says it is the same as Lotio.
 In the Theatrum Chemicum, it is a name for the 3. In the Theatrum Chemicum, it is a name for the white sulphur of the alchemists.

ALMARA'NDA. Almakis. Litharge.

ALMA'RCAB. An Arabian word for litharge of silver.

ALMARCA'RDA. Litharge of silver.

ALMA'RGEN. Almarago. Coral.

ALMARKASI'TA. Mercury.

ALMA'RTAK. Powder of litharge.

ALMATA'TICA. Copper.

ALMEAILE'TU. A word used by Avicenna, to express a preternatural heat less than that of fever and which may continue after a fewer.

ALMECA'STER. Almechasite. Copper. A'LBOTAT. White is a A'LBOTAT. Write is a Turpentine. A'LBOTIS. A cutaneous phlegmon or boil.
ALBUHAR. White lead. ALBUHAR. White lead.

A'LORBAR. See Lignum aloes.

A'LORBAR VIYUM. This signifies, according to Rulandus, Sulphur vivum. A'LCHARRIC. Sulphur vivum.
A'LCHARITH. ROSEMARY.
A'LCHIRRIC. Sulphur. hich may tunt.

ALMECA'SITE. Almechasuc.

ALMI'SA. Musk.

ALMIZA'DAR. Sal ammoniac.

ALMIZA'DIR. Verdigris. A'LCHIBRIC. Sulphur.
A'LCHIEN. This word occurs in the Theatrum Che-Almechasite. Copper. micum, and seems to signify that power in nature by mitum, and seems to signify that power in nature by which all corruption and generation are effected Alchingle. (Hebrew.) The Egyptian meillot. A'LCHLYS. A speck on the pupil of the eye, somewhat obscuring vision.
A'LCHUTE. The mulberry.
A'LCHUTE. A'LCHUTE. A'LCHUTE. A'LNERIC. Sulphur vivum. A'LOHAR. (Arabian.) Alohoc. Mercury. Alo'MBA. (Arabian.) Alooe. Lead. A'LCIMAD. Antimony. A'LCOB. Sal ammoniac ALPHABE'TUM CHEMICUM. Raymond Lully hathgiven the world this alphabet, but to what end is difficult to say:

A significat Deum. ALCO'CALUM. Most probably the Indian name of the artichoke. - Mercurium. A'LCOFOL. Antimony.
A'LCOLA. (Hebrew.) 1. The thrush.
2. Paracelsus gives this name to tartar, or excrement - Salis petram. - Vitriolum. Menstruale. 2. Paracelsus gives this name to tartar, or excrement of urine, whether it appears as sand, mucilage, &c. Alcoli'ta. Urine.
Alcoli'ta. Urine.
A'LOR. Æs ustum.
A'LOTE. The name of a plant mentioned by Hippocrates, supposed to be the elder.
ALCU'BRITH. Sulphur. - Lunam claram. - Mercurium nostrum. H Salem purum Compositum lunæ. Compositum solis. Terram compositi lunæ. Aquam compositi lunæ. ALEARA. A cucurbit.
ALEARA. (From alo, to nourish.) An obsolete term for that which is nourishing. - Ærem compositi lunæ. - Terram compositi solis. Aquam compositi solis. Ærem compositi solis. R Ignem compositi solis. ΑLΕΙ ΜΜΑ. (From αλειφω, to anoint.) An ointment. Lapidem album. ALE'MZADAR. Sal ammoniac. ALE'MZADAT. Sal ammoniac. Medicinam corporis rubei. ALE MZADAT. Sal ammoniac.

ALFA'CTA. Distillation.

A'IFADAS. Alfides. Cerusse.

ALFA'SRA. Alphesara. Arabie terms for the vine.

Cal ammoniac. Calorem fumi secreti.

ALFA'TIDE. Sal ammoniac. Sal ammoniac.

A'LFUSA. Tutty. A'LGALI. A catheter.

Also nitre.

A'LGALI. A catheter. A'so nitre.
A'LGARAH. See Anchilops.
ALGE'RIE. Algirie. Lime.
A'LGEROTH. See Algaroth.
A'LGEROTH. See Algaroth.
A'LGIBIC. Sulphur vivum.
ALGUADA. A white leprous eruption.
ALINDE'SIS. (A\u03b1\u0

anomited with oil. Hippocrates says it nath nearly the Same effect as wrestling.

Alipz'nos. (From a, neg. and λιπαίνω, to be fat.) Alipanum; Alipantos. An external remedy, without fat or moisture.

Alips. Remedies for wounds in the cheek, to pre-

vent inflammation.

ALI'STELIS. (From als, the sea.) Sal ammoniac. Alkari'al. Antimony.

ALKAFI'AL. Antimony. ALKA'NTHUM. Arsenic. the os petrosum. A'LTAFOR. Camphire.
ALTHA'NACA. Althanaca. Orpiment.

ing tender, for barley-sugar, or sugar-candy.

ALTHERE GUM. An Arabian name for a sort of swelling, such as is observed in cachectic and leucophlegmatic habits. ALTIHIT. So Avicenna calls the Laserpitium of the

ALRA'TICA. An Arabic word used by Albucasis, to signify a partial or a total imperforation of the vagina. ALSA'MACH. An Arabic name for the great hole in

Ignem siccum cineris. Calorem balnei. Separationem liquorum.

Alembicum cum cucurbitd.

Alphenic. An Arabian word, signify-

ancients.

A'LUD. Arabian aloes. ALUSAR. Manna.

A'LPHANIC.

A'LRACHAS. Lead.

ALZE'MAFOR. Cinnabar. ALZE MAFOR. Chinadar.

A'MBE. (AµBn, the edge of a rock; from aµbavva, to ascend.) An old chirurgical machine for reducing dislocations of the shoulder, and so called, because its extremity projects like the prominence of a rock. Its invention is imputed to Hippocrates. The ambe is the most ancient mechanical contrivance for the above purpose, but is not used at present.

A'MBRLA. (Arabian.) The cornered hazel-nut, the bark of which is purgative.

A'MBULO. (From aμβαλλω, to cast forth.) Flatus furiosus. A periodical flatulent disease caused according to Michaelis, by vapours shooting through various parts of the body.

Amy'CTCIA. (From αμυσσω, to vellicate.) Medicines which stimulate and vellicate the skin, according

to Cælius Aurelianus

Cælius Auremanus.
Ana'reis. Mercury. Ruland.
Ana'reis. Sulphur vivum.

ANTARIS. Mercury.

ANTI'ADES. (From av71aw, to meet.) 1. The tonsils are so called because they answer one another.

2. The mumps.—Nie Piss.
ARCHIMA'GIA. (From αρχη, the chief, and magaa, the Arabian for meditation.) Chemistry, as being the chief of sciences.

A'rsar. Arsag. Arsenic.—Ruland, &c. A'ssac. (Arabian.) Gum ammoniacum. A'ssala. The nutmeg.

A'SSANUS. The name of an old weight, consisting of two drachms A'suar. Indian myrobalans, or purging nut.

A'SUGAR. Verdigris. ASU'OLI. Soot.

ASU'OLI. SOON

ATA'.R. (Arabian.) 1, A tenesmus.
2. A disease of the eyes.
ATA'XMIR. (Arabian.) Removal of preternatural hair growing under the natural ones of the eyelids. A'TEBRAS. A chemical subliming vessel.

ATHA'NOR. (Arabian.) A chemical digesting furnace.

ATHENA. A plaster in much repute among the ancients.

ATHENATO'RIUM. A thick glass cover formerly used for chemical purposes.

ATHENIO'NIS CATAPOTIUM. The name of a pill in Celsus's writings.

ATHENI'PPON. Athenippum. The name of a collyrium. ATHO'NOR. (Arabian.) A chemical furnace. ATI'NGAR. (Arabian.) Borax.

ATRAME'NTUM SUTORIUM. A name of green vitriol. AURUS BRAZILIENSIS. An obsolete name of the

AUTOLITHO'TOMUS. (From autos, himself,  $\lambda \iota \theta_{05}$ , a stone, and  $\tau \epsilon \mu \nu \omega$ , to cut.) One who cuts himself for the stone.

Ava'nsis. Avante. Indigestion.

BA'IAC. White lead.

BA'RAC. (From borak, Arabian, splendid.)

rach panis. Nitre. Barras. (Arabian.) In M. A. Severinus, it is sy-

nonymous with Alphus, or Leuce.

BARA'THRUM. (Arabian.) Any cavity or hollow

BARBA'RIA. Barbaricum. An obsolete term formerly applied to rhubarb.

BARO'PTIS. A black stone, said to be an antidote to venomous bites.

BAUDA. A vessel for distillation was formerly so called.

But'RACH. (Arab. Bourach.) A name formerly applied to nitre, borax, soda, and many other salts. Bue'llus. (From  $\beta\delta\epsilon\omega$ , to break wind.) A dis-

charge of wind by the anus BDELY'GMIA. (From βδεω, to break wind.)

filthy and nauseous odour.

BELLU'TTA TSJAMPACAM. (Indian.) A tree of Malabar, to which many virtues are attributed.

Belu'zzar. Beluzaar. The Chaldee word for anti-

dote. BE'NATH. (Arabian.) Small pustules produced by sweatings in the night.

BERE'RIAS. An ointment.
BERNA'RVI. An electuary.
BERRIO'NIS. A name of black resin.
BERR'TON. (From Berytius, its inventor.) A collyrium described by Galen.

THUM described by Galen.

Bes. An eight ounce measure.

Bes. An. As sponge.

Bes. An. Formerly applied to wild rue.

Bres. An old name for mace.

Bess. An. (An Arabian word.) Muscarum funus. Frobably a sponge, which is the nidus of some orts of flies.

BEZOAS. An obsolete chemical epithet.

BLA'NCA MULLERUM. White lead.
Bo'SA. An Egyptian word for an inebriating mass, made of the meal of darnel, hempseed, and water.
Bo'SMOROS. (From βοσκω, to eat, and μορος, a part; because it is divided for food by the mill.) Bosporas.

species of meal. (Arabian.) Tumours; pimples in the Bo'THOR.

face: also the small-pox or measle BO'TIA. A name given to scrofula.
BO'TIA. A name given to scrofula.
BO'TIN. A name for turpentine.
BO'TIW. Boetum. 1. A bronchocele.
2. Indurated bronchial glands.

BOTOTHI'NUM. The most evident symptom of disease. Botia. Botus barbatus. A cucurbit of Bo'TUS.

the chemists.

BRA'CIUM. Copper. Verdigris. BURAC. (An Arabian word.) Borax, or any kind of salt.

C, in the chemical alphabet, means nitre.

CA'LCATON. White arsenic. Troches of arsenic. An obsolete term.

CALCE NA. Calcenonius; Calcetus. Paracelsus uses these words to express the tartarous matter in the blood; or that the blood is impregnated with the tartarous prin-

CALCIDI'DES. (From χαλιξ, a chalk stone, and ειδος, form.) An obsolete name of the cuneiform bones. CALCIDI'CIUM. The name of a medicine in which

arsenic is an ingredient.

CALCITA'RI. Alkaline salt.

CALCITE A. Litharge. CALCITEO'S A. Litharge. CA'LCITHOS. Verdigris. Vitriol. Litharge. CALCITRE'A. Vitriol.

CA'RABE. See Copyridion. CA'RABE. (Persian.) Amber. CHI'BUR. Sulphur.

Diami'syos. (From δια, and μισυ, mis position in which misy is an ingredient. Dysra'chitis. The name of a plaster. (From δια, and μισυ, misy.) A com-

The seeds of sage, or of juniper. EBEL.

EBE'SMECH. Quicksilver. EBSEMECH. Quicksilver.

ECCATHA'RTICA. (From εκκαθαιρω, to parge outards.) According to Gorræus, eccathartics are medicines which open the pores of the skin; but in general they are understood to be deobstruent. Sometimes expectorants are thus called, and also purgatives. An obsolete term.

EDES. Amber.

EDE'SSENUM. An eye-water of tragacanth, gumarabic, opium, &c

E'DETZ. Amber. E'DIC. Edich; Eder. Iron. E'DRA. A fracture; also the lower part of the rectum.

E'FFIDES. Ceruss. ELA'NULA. Alum. E'LAQUIR. Red vitriol.

E'LAS MARIS. Burnt lead.

ELE'SNATIS. An old term for black lead. ELE'SNATIS. An old term for burnt lead. Ens martis. An oxide of iron.

ENS PRIMUM SOLARE. Antimony Ens veneris. The muriate of copper.

FUMUS ALBUS. Mercury FUMUS CUTRINUS. Sulphur.
FUMUS DUPLEX. Sulphur and mercury.
FUMUS RUBENS. Orpiment.

GE'NIPI. A term of barbarous origin applied to two GE'RYON. Quicksilver.

In the Spagyric language, it is the ele-TERT DOS

La'RBASON. Antimony.

mentary air.

SATANUS DEVORANS. Antimony SATHE. The penis.



